



Camp Lejeune Data Mining Technical Workgroup
March 2011 Status Report



U.S. Department of the Navy and
Agency for Toxic Substances and Disease Registry

The Camp Lejeune Data Mining Technical Workgroup (Workgroup) is a joint effort between the U.S. Department of the Navy (DON) and the Agency for Toxic Substances and Disease Registry (ATSDR). This Status Report is being provided to DON and ATSDR leadership to document the joint cooperation and accomplishments to date. As set forth in its Charge, the Workgroup's goal is to, "Implement a plan to ensure ATSDR possesses all relevant data and information needed for their health activities."

To achieve this goal, the Workgroup created a five phase Plan of Operation to complete data discovery for the ATSDR historical dose reconstruction modeling and epidemiological studies. The first four phases of the five-phase plan are to: define the scope of data needs; identify potentially relevant information; screen the information; and, transfer/share potentially relevant information. Creating and issuing a close-out report annotating the workgroup's efforts comprises the last phase of the plan.

The Workgroup created an index (see attached) of repositories and sources of potentially relevant information under DON control as a tool to facilitate its data and information goals. The index now serves as the Workgroup's inventory and is used to focus the Workgroup's data mining efforts. Because of the Workgroup members' substantial work and cooperation, we are now able to begin our close-out phase of the plan.

Pursuant to the Charge and the goals of the Workgroup, the two agency leads are confident that the Workgroup has successfully created an accurate and complete inventory. Further, the continued efforts of the Workgroup members have ensured that ATSDR representatives have received full access to all relevant information identified in the inventory.

The Workgroup's accomplishments to ensure ATSDR possesses all relevant data and information under DON control for the historical dose reconstruction modeling and epidemiological studies will be more thoroughly described in a forthcoming close-out report of that activity. Because the efforts of this Workgroup have proven to be effective in assuring DON and ATSDR data and information exchange, future DON and ATSDR data mining efforts should consider utilizing this or a similar procedure.

Respectfully,

Scott Williams, HQ USMC
DON Lead

RADM Sven E. Rodenbeck, USPHS
ATSDR Lead

Pursuant to the Charge and the goals of the Camp Lejeune Data Mining Technical Workgroup, the Workgroup created an index of repositories and sources of potentially relevant information under DON control as a tool to facilitate the Workgroup's data and information goals. The index below serves as the Workgroup's inventory and was used to focus the Workgroup's data mining efforts. Please also note that when this index of information sources was originally compiled there was a concerted effort to err on the side of inclusion so that no potentially relevant information source was missed by the Workgroup. As such, it contains information sources that had been identified as potentially relevant and were ultimately not used by and/or deemed not needed by ATSDR for their health initiatives (e.g. Air Quality Program Data). 20110325

Media/Area	Information Source (Repositories, Databases, Studies, Documents)	Information Source Description	Information Source Location
Drinking Water and Water Quality Information			
Drinking Water Program	1) Drinking Water Supply Well Sampling for VOCs	Non-regulatory sampling performed voluntarily. All water supply wells sampled annually. Wells within 1500' of known contaminated areas sampled semi-annually. Began in 1997.	Hard Copy Files - Bldg 12
Drinking Water Program	2) Drinking Water Supply Well Sampling for Munitions Constituents	Non-regulatory sampling performed voluntarily. Initial assessment in 2004. Included well & plant sampling.	Electronic Files Maintained by Environmental Management Division (EMD)
Drinking Water Program	3) Monthly Sampling at Water Treatment Plants for Munitions Constituents	Non-regulatory sampling performed voluntarily. Conducted at distribution point at all WTP plants. Constituents sampled include perchlorate. Began in 2004.	Electronic Files Maintained by EMD; Hard Copy Files - Bldgs FC440 & 1101
Drinking Water Program	4) Compliance Sampling at Water Treatment Plants	Required by regulation. Samples are collected by MCBCL personnel. Analysis conducted In-House & by contract laboratories. Regulatory reports forwarded by MCBCL. ~ Weekly Fluoride Reports (HB, HP WTP). Report to NCDENR. ~ Monthly Bacteriological Report. Coliform analysis for each plant. Report to NCDENR. ~ Monthly Report of Operations/Water Usage. Data collected by WTP personnel. Report to NCDENR. ~ Monthly Distribution Chlorine Reports. New Requirement. Data collected by WTP personnel. Report to NCDENR. ~ Monthly 4-Log Treatment Report. New Requirement. Data collected by WTP personnel. Report to NCDENR. ~ Regulatory Periodic Sampling for VOCs, SOCs, Nitrates, Asbestos, Radionuclides, Inorganics, THMs, Lead/Copper. *Frequency Dictated by Regulation. Samples collected by MCBCL personnel. Analysis performed by Contract Laboratories. Results forwarded to State by laboratory. Data located at Public Water Supply, NCDENR website "Drinking Water Watch".	Electronic Files Maintained by EMD; Hard Copy Files - Bldgs FC440 & 1101
Drinking Water Program	5) Monthly Special Sampling at Water Treatment Plants	Non-regulatory sampling performed voluntarily. Conducted at distribution point at all WTP plants. VOCs/Limited list of SOCs. Began in 2000.	Electronic Files Maintained by EMD; Hard Copy Files - Bldgs FC440 & 1101
Drinking Water Program	6) Wellhead Management Plans and Associated Sampling Events	MCBCL voluntarily (not regulatory-required) developed a Wellhead Management Plan which identifies specific management actions, procedures, and plans that will protect both individual wells and the groundwater source. All Wellhead Management Plans are available on EMD's Shared S Drive. This information will soon be available on the EM Portal. All 1992/1993 drinking water supply well sampling performed for the original wellhead management plan are also available.	Electronic Files Maintained by EMD, Hard Copy Files - Bldgs 12 and 1101
Stormwater Program	7) Stormwater Analytical Sampling	Required by MCBCL Phase I Stormwater permit. Includes visual observation data (VOPS) & sample results from permit-specified locations. Data compiled & forwarded to NCDENR. Database available with sampling & VOPS information.	Electronic Files Maintained by EMD, Hard Copy Files - Bldg 12
Wastewater Treatment	8) Monthly Wastewater and River Sampling	Required by NPDES WW permit. NPDES report consists of daily sample results which are analyzed by both the MCBCL EMD laboratory & contract laboratory. River Report provides sample data collected from various locations in New River during months of April - October. Toxicity Report consists of quarterly monitoring data on the WWTP effluent to determine if the discharge inhibits the growth of Mysid Shrimp. Report data compiled & forwarded to NCDENR. Data stored in LabTrak.	Electronic Files Maintained by EMD; Hard Copy Files - Bldgs FC440 & 1101
Landfill Monitoring Program	9) Landfill Monitoring Reports for Closed and Active Landfills	In accordance with Solid Waste Management rules, MCBCL is required to sample all active and closed landfill monitoring wells on a semi-annual basis to ensure landfill contaminants are not leaving the site. These reports are available on the EM Portal.	Electronic Files Maintained by EMD, Hard Copy Files - Bldgs 12 and 1101
Wastewater Treatment	10) Land Application (Wastewater Residuals) Reports	Land Application Reports are provided to NCDENR and EPA on an annual basis. These reports provide compliance analytical monitoring information for wastewater sludge in accordance with MCBCL's Residuals Application Permit. This information is available on the EM Portal.	Electronic Files Maintained by EMD, Hard Copy Files - Bldgs 12 and 1101
Drinking Water Program	11) Lead and Copper Materials Survey	Initial survey conducted in 1990s which evaluated MCBCL's various DW distribution systems & identified locations for lead/copper sampling.	Electronic Files Maintained by EMD, Bldg 12 and 1101
Drinking Water Program	12) Analysis of Water Coolers for Lead	The purpose of this project was to identify any water coolers at MCBCL with a lead content above the Environmental Protection Agency (EPA) designated limit of 15 (ug/l). This 1992 study is available in hard copy form.	Hard Copy Files - Bldg 12
Compliance Monitoring	13) Oil Water Separator Inventory	The Oil Water Separator Inventory provides a list of all active and inactive oil water separators basewide. This study contains as-built drawings of each separator location and also provides upgrade recommendations.	Hard Copy Files - Bldg 12

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USGS Studies	14) Castle Hayne Aquifer Monitoring (19 Monitoring Well Sites Base-wide)	In 2007 MCBCL initiated and funded a contract with USGS to maintain a groundwater level and conductance monitoring network for the Base. Camp Lejeune's network of groundwater monitoring wells is comprised of 19 wells Base-wide. Data gathered from these wells will provide a basis for measuring short and long term fluctuations in aquifer water levels and water quality as a result of the groundwater withdrawal practices of neighboring large volume water suppliers. Both the USGS and MCBCL will work together in an effort to assess hydrologic conditions and determine critical groundwater level and conductance conditions. Data is available on the USGS website http://wdr.water.usgs.gov .	Electronic Files Maintained by EMD, Hard Copy Files - Bldg 12
Drinking Water Program	15) Labtraks	Database for collection of in-house drinking water and wastewater analysis results. Produces monthly reports and annual River Report. Data includes bacteriological sampling results, wastewater NPDES-compliance sample results and data collected during the April-October New River sampling events.	Electronic Files Maintained by EMD
Wastewater Treatment	16) Wastewater Collection System Database	This database was developed to satisfy the Wastewater Collection System Permit Requirements. It houses all sanitary sewer overflows, inspections and maintenance that is performed on the wastewater collection system. It is currently stored on the Shared "S" drive and will soon be converted to the EM Portal.	Electronic Files Maintained by EMD; Hard Copy Files - Bldg 12
Drinking Water Program	17) Consumer Confidence Reports (CCRs)	CCRs are developed annually for each water treatment system (except Onslow Beach - Transient non-community system). These reports (1998 - Present) are available in hard copy form and on the EMD website http://www.lejeune.usmc.mil/emd .	Electronic Files Maintained by EMD
Drinking Water Program	18) Local Water Supply Plan	A Local Water Supply Plan is an assessment of a water system's current and future water needs and its ability to meet those needs. North Carolina General Statute G.S 143-355(1) requires all units of local government that provide or plan to provide public water service to prepare a Local Water Supply Plan and update that plan at least every five years. Camp Lejeune's Local Water Supply Plans are available online at http://www.ncwater.org (passwords can be provided upon request)	Electronic Files Maintained by EMD; Hard Copy Files - Bldg 12
Drinking Water Program	19) Unregulated Contaminants (UCMRs) Sampling Data	The purpose of UCMR monitoring is to collect contaminant occurrence data to support the U.S. EPA Administrator's decisions regarding whether or not to regulate contaminants, such as those on the Drinking Water Contaminant Candidate List, to protect public health. Sample schedule is set by EPA. Data collected by MCBCL and analyzed by contract laboratories. Results are provided to EPA.	Electronic Files Maintained by EMD/Hard Copy Files - Bldgs FC440 & 1101
Drinking Water Program/ Onslow Water Resources Initiative	20) Capacity Use Reports	NCDENR developed the Central Coastal Plain Capacity Use Area (CCPCUA) in response to lowering water table levels within the Black Creek Aquifer. Although Camp Lejeune supplies its water from the Castle Hayne Aquifer, which has a much faster recharge rates and is not as heavily stressed as the Black Creek Aquifer, the Base was still required to apply for a CCPCUA permit. This permit requires that pumping and static water levels are recorded by the Base and provided to NCDENR on a monthly basis. This information is available on the Public Works Shared N Drive.	Electronic Files Maintained by EMD; Hard Copy Files - Bldg 12
Wastewater Treatment	21) Annual Wastewater Performance Report	Mandated by the North Carolina Clean Water Act of 1999, Session Law 1999-329, owners or operators of wastewater collection or treatment works are required to provide to the users or customers of the collection or treatment works and to the Department of Environment and Natural Resources an annual report that summarizes the performance of the collection system or treatment works and the extent to which the collection system or treatment works has violated the permit or federal or state laws, regulations, or rules related to the protection of water quality. These reports are available in hard copy form and on the EMD website http://www.lejeune.usmc.mil/emd .	Electronic Files Maintained by EMD; Hard Copy Files - Bldg 12
Drinking Water Program	22) Other Drinking Water Studies, Plans and Projects	This covers various studies, plans and projects that are not covered under the categories above. For example, Corrosion Control Studies, Operation and Maintenance Plans, Emergency Management Plans, Emergency Response Plans, etc.	Electronic Files Maintained by EMD, Hard Copy Files - Bldgs 12, FC440 and 977
Document Repositories	23) CLW Document Database	The CLW Document Database contains documents collected by MCBCL from 1991 through 2004 relevant to the Historic Drinking Water Issue. Documents included sampling/analytical data, memorandums, reports, letters, briefs, telephone conversations, regulations, guidance, etc. The documents were collected from EMD, Utilities, Public Works, and EACO facilities.	Hardcopy documents maintained in Bldg. 12; Electronic Files Maintained by EMD
Document Repositories	24) Camp Lejeune Historic Drinking Water (CLHDW) Consolidated Document Repository (CDR), including the Camp Lejeune Document Search and Collection (DSC) Repository	The Camp Lejeune DSC Repository is a part of the larger Camp Lejeune Historic Drinking Water (CLHDW) Consolidated Document Repository and accompanying database that contains over 8000 documents and is currently maintained by contractor personnel aboard MCBCL.	Electronic Files maintained by contractor personnel aboard MCBCL.
Drinking Water Program	25) Draft Historical TCE/PCE Drinking Water Analysis Spreadsheet	This analytical data was compiled from documents discovered to date; primarily the CLW document database and specifically JTC lab reports that exist in several places in the record. This is a draft document that includes errors and duplications due to discrepancies in the record. This draft document has changed over the years based on additional information and requests from various investigators. A copy was provided to ATSDR, GAO and NRC.	Draft Electronic File Maintained by EMD
Drinking Water Program	26) Consolidated Drinking Water Database	Access database in draft form created to consolidate existing (and future) sources of drinking water analytical data. Database is currently in draft form (as of March 2011).	Electronic File will be Maintained by EMD

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Air Quality Program			
Air Quality Program	1) Air Program Information Management System (APIMS)	APIMS is used to collect and store data such as material usage data and equipment run-time data that is subsequently used to estimate air emissions. Annual air emissions estimates are logged in NCDENR's web-based application database AERO.	Electronic Files Maintained by Contractor through Public Works Division (PWD) (IDIQ) Contract.
Air Quality Program	2) Risk Management Plan (RMP)	Historical RMP information. MCBCL is no longer subject to the RMP requirements of 40 CFR Part 68 "Prevention of Accidental Releases" - Section 112r of the Federal Clean Air Act. MCBCL submitted a letter to EPA on 15 May 2008 to de-register from the program.	Recent hardcopy documents maintained in Bldg 12; all other hardcopy documents maintained in Bldg. 1101; electronic files maintained by EMD
Air Quality Program	3) Emergency Planning and Community Right to Know Act (EPCRA)	Data documenting storage of hazardous materials required for EPCRA 311 and 312 reporting is submitted to NC Department of Emergency Management (NCDDEM) on-line through E-plan. Hard copy Tier II forms are prepared for local districts using the Tier2 Submit software package. EPCRA 313 Reports or Toxics Release Inventory (TRI) reporting is submitted on-line to EPA's TRI database.	Recent hardcopy documents maintained in Bldg 12. All other hardcopy documents maintained in Bldg. 1101; electronic files maintained by EMD
Air Quality Program	4) Title V Reports	Semi-annual compliance and annual compliance certification reports are compiled and submitted to NCDENR and EPA as required. These reports summarize MCBCL's compliance status regarding the Title V Air Permit.	Recent hardcopy documents maintained in Bldg 12. All other hardcopy documents maintained in Bldg. 1101; electronic files maintained by EMD
Air Quality Program	5) Aerospace NESHAP Database/Site Remediation NESHAP Reports	MCBCL is subject to the Aerospace NESHAP (MACT Subpart GG) and the Site Remediation NESHAP (MACT Subpart GGGGG). Semi-annual compliance reports are submitted to EPA and NCDENR. Aerospace coatings usage data is kept in an Oracle Discoverer database.	Recent hardcopy documents maintained in Bldg 12. All other hardcopy documents maintained in Bldg. 1101; electronic files maintained by EMD
Air Quality Program/ Compliance Monitoring	6) Other Air Quality Documents	Including but not limited to: NCAQ evaluation of the toxic air pollutant emissions from combustion sources and other toxic/hazardous air pollutant modeling documents.	Recent hardcopy documents maintained in Bldg 12. All other hardcopy documents maintained in Bldg. 1101; electronic files maintained by EMD
Aboveground Storage Tank (AST)/Underground Storage Tank (UST) Program			
UST Program/ Document Repositories	1) UST Portal	The UST Portal is a working tool for the MCB UST Program and is used by Marine Corps Base Camp Lejeune, NAVFAC, contractor employees, and others as necessary. The Web Portal began to be developed in 2003 when a contractor scanned all available hard copy reports, files, correspondence, etc. related to the Camp Lejeune UST Program from the Camp Lejeune Environmental Management Department (EMD) Library. Subsequent to 2003, all documents related to the UST Program were added to the UST Portal. These documents still reside in hard copy form in the EMD LUST library.	Hardcopy documents maintained in Bldg. 12. Electronic Files Maintained by Contractor (Catlin) under NAVFAC contract
UST Program	2) Integrated Contingency Plan (ICP)	The ICP combines various federal and state regulatory requirements pertaining to hazardous material spill prevention, response actions, containment, and cleanup into a single source document. The ICP contains information related to active petroleum, oils, and lubricant storage areas as well as spill prevention and containment information.	Hardcopy documents maintained in Bldg. 12. Electronic Files Maintained by EMD
UST Program/Databases	3) Terrabase - UST	Contractor-maintained Access Database with approximately 700,000 records of analytical data. The time frame of this data stretches from 1984 until January 2010. This database was developed from the Terrabase database that the IR Program provided the contractor in November 2005 which contained analytical data for the IR Program and some data from the UST program. Since July 2005 the contractor has been updating our database with analytical data for the "Active" UST Sites (those sites included in the UST Management Program, approximately 15 sites over the past four to five years). NOTE: IR data since 2005 is not included in the UST Terrabase. The IR Terrabase contains all IR data to present.	Electronic Files Maintained by Contractor under NAVFAC contract
UST Program	4) Other UST Studies, Plans and Projects	Includes, but is not limited to, the Active Tank Mngt Program which tracks Operating Permits, Veeder Root operations, Tank Inspections, Cathodic Protection Evals, Tightness Testing, Leak detection, Repairs, and Operator Education for all active USTs aboard MCBCL; and Sample/Analysis Data from Water Supply Well 642 which is a well that was removed from service in summer of 2009. It was the closest (~2000') to the HPPFF and we sampled/analyzed/reported to NCDENR on a monthly basis per the HPPFF P&T Operating Permit since 2006.	Hardcopy documents maintained in Bldg. 12. Electronic Files Maintained by EMD
UST Program/ Document Repositories	5) Camp Lejeune AST/UST Library	Hard copy repository of UST Program reports and documents. This repository was a source of information for the UST Portal document library.	Hardcopy documents maintained in Bldg. 12. Electronic Files Maintained by EMD

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Installation Restoration Program			
IR Program	1) Installation Restoration Program Administrative Record	Official Electronic database containing copies of reports, permits, letters, etc. associated with environmental restoration on Base (IR, SWMU & MMRP). Official copy maintained by Navy. The IRP Administrative Record has been publicly available since 1992.	Recent hardcopy documents maintained in Bldg. 12. All other hardcopy documents maintained in Bldg. 1101. Official Electronic Files Maintained by Navy Contractor under NAVFAC contract
IR Program/Databases	2) Terrabase Installation Restoration (IR) Database	Electronic (Access) database containing electronic data from past and present sampling events on Base. TerraBase is a software program used to query information from the Access storage area. Although MCBCL has maintained a copy of the database in the past, the Terrabase program was not approved for use under NMCI. Navy's IR CLEAN contractor maintains the up-to-date copy of the electronic database (IR, SWMU, MMRP and some PSW data).	Electronic Files Maintained by Navy Contractor under NAVFAC contract
IR Program	3) Range Environmental Vulnerability Assessment (REVA) (Not CERCLA related)	Voluntary program not required by regulation. Report completed August 2009 documenting sampling events associated with operational ranges on MCBCL. This report has been publicly available since Sept, 11, 2009 at website http://www.lejeune.usmc.mil/reva/	Hardcopy documents maintained in Bldg. 12. Electronic Files Maintained by EMD. Available to public at http://www.lejeune.usmc.mil/reva/
IR Program	4) Basewide Vapor Intrusion Assessment	Report completed November 2009 documenting groundwater, soil, soil vapor and indoor air sampling events associated with assessing potential vapor intrusion issues on MCBCL.	Hardcopy documents maintained in Bldg. 12. Electronic Files Maintained by EMD
IR Program/ Databases	5) Partnering Enterprise Database	Internal IR Partnering Team (MCBCL, NAVFAC, EPA, NCDENR and contractors) used to share information (draft reports for review, sampling data, tech memos, etc.). Not an official database but the partnering team does maintain recent data in this database for easy access. The Navy's official copy of the Administrative record still maintains the Final copies of any submittals.	Electronic Files Maintained by Navy Contractor under NAVFAC contract
IR Program/ Databases	6) Naval Installation Restoration Information Solution (NIRIS)	Recently developed Navy database used to share information within the entire Navy. The Navy's official copy of the Administrative Record is accessed through NIRIS. The development of NIRIS is not yet complete.	Electronic Files Maintained by Navy
IR	7) Perchlorate Database -	Electronic database maintained by the CNO and HQMC containing perchlorate sampling data for MCBCL required by DoD. MCBCL began entering Perchlorate Data into database in 2004.	Electronic Files Maintained by Navy
IR Program	8) Solid Waste Management Unit (SWMU) Program Reports -	Final reports maintained in Administrative Record. These RCRA reports are also maintained by the NCDENR as required by the Base Hazardous Waste Management Permit.	Recent hardcopy documents maintained in Bldg. 12. All other hardcopy documents maintained in Bldg. 1101. Electronic Files Maintained by EMD. Official Files Maintained by NCDENR
IR Program	9) Reports not in Admin Record. Includes, but is not limited to, the following:		
	a) Final Radiological Survey Report - 10/29/2007 (Not CERCLA related)	Report documenting the assessment of three areas on Base reportedly used for testing or disposing of low-level radiological material. The project was contracted through the Navy Radiological Affairs Support Office and funded by MCBCL.	Hardcopy documents maintained in Bldg. 12 or 1101. Electronic Files Maintained by EMD
	b) Final Radiological Investigation Report for the former Naval Medical Research Facility Laboratory (FNMRFL) - 9/25/2009 (Not CERCLA related)	Report documenting the assessment of the FNMRFL on Base reportedly used for testing (and nearby disposal activities) of low-level radiological material. The project was contracted through the Navy Radiological Affairs Support Office and funded by MCBCL. This report is an addendum to the Draft Expanded Site Inspection Report for the Wallace Creek MILCON Area (12/30/09) which will be included in the Admin Record once finalized.	Hardcopy documents maintained in Bldg. 12 or 1101. Electronic Files Maintained by EMD
	c) Draft Base Boundary Report for Potential Off-Base Contamination Encroachment - February 2010	Currently in the review process by the Navy and MCBCL. Assessment initiated to determine if off-Base industrial activities near the boundary of the Base have affected the environment on Base. Will be included in Admin Record once finalized.	Hardcopy documents maintained in Bldg. 12 or 1101. Electronic Files Maintained by EMD
	d) Draft Off-Base Surface Danger Zone (SDZ) Investigation Reports	Assessment initiated to address former off-base ranges located adjacent to the southeastern boundary of the Base, including private, state-administered, and state-owned property owners. To date, the only documents available include the investigation work plan and recent anomaly investigation conducted by Base Range Control contractor on Hammocks Beach.	Hardcopy documents maintained in Bldg. 12 or 1101. Electronic Files Maintained by EMD
IR Program/ Document Repositories	10) Camp Lejeune EMD Libraries	Hard copy repository of various CERCLA and RCRA reports and documents.	Recent hardcopy documents maintained in Bldg. 12. All other hardcopy documents maintained in Bldg. 1101

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Asbestos Program			
Asbestos	1) Quarterly Asbestos Waste Shipment Records	NC statutes require a copy of all North Carolina Waste Shipment Records (DHHS Form 3787) to be provided to the Health Hazards Control Unit pursuant to 10A North Carolina Administrative Code (NCAC) 41C .0605(j). All permitted Waste Shipment records are sent to the Health and Hazards Control Unit every quarter.	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 12/1101
Asbestos	2) MCBCL Asbestos Management Plan	Required by 40CFR 763 Asbestos Hazard Abatement and Reauthorization Act of 1992 (ASHARA). Provides guidance for managing asbestos containing materials aboard MCBCL.	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 12
Asbestos	3) Asbestos Building Surveys	Buildings are initially inspected for asbestos in areas where workers could become exposed. Once initial surveys are completed, buildings are inspected on a triennial period and quarterly reports are provided to the Asbestos Program Manager (APM). Deficiencies on the report are given to PWD Operations for immediate action. Buildings surveyed are posted with asbestos surveys and drawings indicating what types and the locations of the asbestos containing materials in each building. Warning labels are also posted so building occupants and maintenance workers are aware of the hazards in the workplace.	Electronic Files Maintained by EMD; Hardcopy Files - Bldgs 12/1101
Hazardous Waste Program			
Hazardous Waste	1) NCDENR Biennial Hazardous Waste Report	NCDENR requires that MCBCL submit their Biennial report detailing quantities of hazardous waste generated and practices implemented to minimize HW aboard the installation.	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 12/977/1101
Hazardous Waste	2) Naval Facilities Engineering Support Center (NFESC) Hazardous Waste Annual Report	In accordance with MCO 5090.2A, Marine Corps installations are required to collect and submit hazardous waste data utilizing the EPRPortal. Reports are due during the month of March to HQMC and NFESC.	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 12/977/1101
Hazardous Waste	3) Hazardous Materials Management System (HMMS)	HMMS is an Oracle-based relational database program that operates on a UNIX server and uses the depot's local area network (LAN). Its user can, in most cases, access it through existing PCs. Using bar-codes, HMMS maintains an inventory and visibility not only of HAZMAT, but of chemicals being used aboard the Base. It tracks the issue of HAZMAT to a workplace through its disposal at EMD. It allows managers to control and limit HAZMAT issue to authorized users and control or minimize the quantity of HAZMAT issued for specific uses and operations.	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 977
Hazardous Waste	4) Annual PCB Datacall	Annual report required by MCO P5090.2A that is centered around the elimination of PCBs and the compliance with Federal, state and local regulations.	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 12/977/1101
Hazardous Waste	5) Associated Hazardous Waste Documents	Includes manifests for regulated and non-regulated hazardous waste/material transfers, hazardous waste profile sheets and sampling/analysis data of wastes, materials and unknowns	Electronic Files Maintained by EMD; Hardcopy Files - Bldg 12/977/1101
Naval Hospital Associated Program Documents			
Naval Hospital	1) Preventive Medicine Sanitation - Ice and Water Sample Database	Data from monthly sampling/analysis. Indicates the presence or absence of bacteriological Coliform.	NHCL Preventive Medicine Unit Bldg 65
Naval Hospital	2) Preventive Medicine Sanitation - Quarterly Water Plant Sanitation Inspections	Allows the Preventive Medicine Department the opportunity to conduct an assessment of the broad operations involved with the overall function of the facility.	NHCL Preventive Medicine Unit Bldg 65
Naval Hospital	3) Industrial Hygiene - Industrial Hygiene Periodic Surveys/Reports	Conducted throughout commands aboard MCBCL. Identifies chemical and physical occupational hazards, personal protective equipment, recommended control measures, and recommendations for Occupational Safety and Health Medical Surveillance Programs. Reports provided to commands.	NHCL Preventive Medicine Unit Bldg 65; Historic Hardcopy Reports Maintained in Bldg 5400F
Naval Hospital	4) Industrial Hygiene - Workplace Monitoring Database	Contains monitoring results for identified occupational hazards (chemical hazards, physical hazards, ventilation measurements, and indoor air quality (temperature, humidity, and carbon dioxide).	NHCL Preventive Medicine Unit Bldg 65
Other Information Sources			
NEPA	1) Integrated Natural Resource Management Plan/Integrated Cultural Resource Management Plan	Management plans directing Camp Lejeune's environmental conservation programs.	Electronic Files Maintained by EMD; Hard Copy files-Bldg 12
NEPA	3) National Environmental Policy Act (NEPA) Documents	Documents concerning environmental review and impacts of proposed actions at Camp Lejeune.	Electronic Files Maintained by EMD; Hard Copy files-Bldg 12
NEPA	3) Noise Studies	Studies relating noise and military training: 2009 Air Installation Compatible Use Zone, MCASNR. Draft Range Compatible Use Zone. MCBCL.	Electronic Files Maintained by EMD; Hard Copy files-Bldg 12
IR Program	4) Environmental Condition of Property (ECP) Documents	Documents used in conjunction with Real Estate transactions providing the environmental condition of the property before lease or transfer.	Hard Copy Reports maintained in Bldg 12 and 1005
EMS	5) Environmental Correspondence Archives	Read files, permanent files and scanned copies of official correspondence, including EM Portal and S Drive files.	Electronic Files Maintained by EMD; Hard Copy files-Bldgs 12 and 1101
Family Housing	6) Camp Lejeune Family Housing Records	Historic Camp Lejeune family housing occupancy records. These records exist in hard copy and electronic form.	Hard Copy and electronic files located at Camp Lejeune Family Housing Office - Bldg TT43
Command Chronologies	7) Command Chronologies	A command chronology is the principal historical report required of each Marine command. Chronologies are submitted by each Marine Corps command, both Regular and Reserve, and provide a concise review of the operational experiences of the command on a continuing basis.	Historic hard Copy and electronic files are located at the Gray Research Center, Quantico, VA. More recent files reside with the individual commands.
Miscellaneous	8) NAVFAC Box of Miscellaneous Camp Lejeune Environmental Files	A box of miscellaneous Camp Lejeune Environmental files in hard copy form. Document dates range from the late 1960s to the mid 1980s.	NAVFAC Atlantic, Norfolk, VA

Pursuant to the Charge and the goals of the Camp Lejeune Data Mining Technical Workgroup, the Workgroup created an index of repositories and sources of potentially relevant information under DON control as a tool to facilitate the Workgroup's data and information goals. The index below serves as the Workgroup's inventory and was used to focus the Workgroup's data mining efforts. Please also note that when this index of information sources was originally compiled there was a concerted effort to err on the side of inclusion so that no potentially relevant information source was missed by the Workgroup. As such, it contains information sources that had been identified as potentially relevant and were ultimately not used by and/or deemed not needed by ATSDR for their health initiatives (e.g. Air Quality Program Data). 20110325

Media/Area	Information Source (Repositories, Databases, Studies, Documents)	Information Source Description	Information Source Location
Public Works Division Technical Records and Engineering Documents			
Public Works	1) Filemaker Pro Project Database	Filemaker Pro is a database of engineering projects, designs, and studies in the Public Works Division. The database is used to provide access to records drawings for construction and repair of facilities throughout MCBCL and MCASNR. All files are a remote server.	Electronic Files Maintained by PWD
Public Works	2) Technical Records Vaults in Building 1005	Hard copy and electronic files (discs and CD) are kept in two "vaults". Filemaker Pro is used to locate/access the map and drawing files. Most record drawings created prior to electronic media have been scanned and saved as an electronic file. Unscanned materials stored in the vaults, such as contract submittals, specs, and other miscellaneous documents, have been catalogued in a searchable index.	Hard-copy drawings are stored in Bldg 1101 and are all available electronically through filemaker. Contract submittals and other technical documents are located in Bldg 1005 "Vaults".
Public Works	3) Transformer disposal records	Documentation for disposal of transformers beyond service life.	Hard Copy Reports related to PCB disposal maintained in Bldg 1101.
Public Works	4) Facilities Integration Website	Database for submission, approval, and funding of major facility repair projects, design approvals, minor construction, and environmental projects.	FI website is maintained by HQMC and access is via the world wide web.
Public Works	5) MAXIMO Maintenance Management System	Software and database for managing maintenance and repair to all facilities at MCBCL and MCASNR.	Electronic Files Maintained by PWD
Public Works	6) Installation Geospatial Information & Services (GIS) Database	Geodatabase of all geographic and facilities information for MCBCL and MCASNR. The database consists of approximately 295 layers that include Camp Lejeune and Oak Grove.	Electronic Files Maintained by PWD
Public Works	7) PR Builder	Supply system software for purchase of materials and supplies for use in utility production and maintenance activities.	Electronic Files maintained by PWD
Public Works	8) Utilities Operations Report	Records of all utilities produced, purchased, distributed, and sold for the installation. Includes all fuel consumption data.	Electronic Files maintained by PWD; hard copy files located at Bldgs 8, 1301, and 12.
Public Works	9) Steam plant fuels sulfur content records	Records of coal and fuel oil sulfur contents delivered to steam plants.	Hard Copy files-Bldg 1700
Public Works	10) Steam plant chemical receipts	Documentation of all boiler water treatment chemical delivered to steam plants.	Hard Copy files-Bldg 1700
Public Works	11) Public Works Division correspondence and programs documentation	Read files, permanent files and scanned copies of official correspondence. Contract, design, engineering studies, maintenance and repair records, and facility projects.	Hard Copy files-Bldg 1005
Public Works	12) iNFADS	The Internet Navy Facility Assets Data Store (iNFADS) is the Real Property Inventory (RPI) for the DON. This enterprise system includes all of the data necessary to support RPI, Planning, and acquisition for the Navy and Marine Corps. iNFADS has been operations since 2001.	iNFADS website is maintained by DON and access is via the internet.
Weather Data			
EMD	1) EMD Forestry	Collects precipitation data, temperature, relative humidity, wind speed and direction, and pressure. Data is available from the Greater Sandy Run Area from February 2003 through present. This data is available on-line at the RAWS USA Climate Archive http://www.raws.dri.edu/cgi-bin/rawMAIN.pl?laNSND . Data is available from Mainside October 1997 through August 2005.	Electronic Files Maintained by EMD; Hard Copy files-Bldg 12