



DEPARTMENT OF THE NAVY
NAVAL HOSPITAL
2080 CHILD STREET
JACKSONVILLE, FLORIDA 32214-5000

IN REPLY REFER TO:

6200.2

Ser 06IHZZ/ 2200

DEC 13 2018

From: Commanding Officer, Naval Hospital Jacksonville
To: Director, Logistics Support Division, MCLB, Albany, GA

Subj: PERIODIC INDUSTRIAL HYGIENE SURVEY OF THE LOGISTICS SUPPORT
DIVISION

Ref: (a) OPNAVINST 5100.23G

Encl: (1) Executive Summary
(2) Industrial Hygiene Survey Report (AL19004)

1. A periodic Industrial Hygiene Survey of the Marine Corps Logistics Base (MCLB) Albany, Logistics Support Division (LSD) was conducted on 28-29 November 2018 and 3 December 2018 as required by reference (a). Enclosures (1) and (2) are provided for your information.
2. Point of contact is Mr. Bryan S. Arwood of the Naval Branch Health Clinic Albany Industrial Hygiene Division, at 229-639-7846 or bryan.s.arwood.civ@mail.mil.

A handwritten signature in black ink, appearing to read "T. R. Walker".

T. R. WALKER
By direction

Copy to:
MCLB Risk Management Office, MCLB Albany
Occupational Health Division, NBHC Albany

EXECUTIVE SUMMARY

A periodic industrial hygiene survey of Marine Corps Logistics Base (MCLB) Albany, Logistics Support Division (LSD) was conducted 28-29 November and 3 December 2018 by Mr. Bryan S. Arwood, Industrial Hygienist, Naval Branch Health Clinic, Albany. The purpose of this survey was to identify health hazards present, assess actual health risk, and recommend controls where needed, as well as to assess your Occupational Health program status. No formal response to Industrial Hygiene is needed, although the MCLBA Risk Management Office may specify recommendations made in this report as items for mandatory corrective action. Following is a summary of major findings and recommendations. Detailed findings, observations and recommendations are provided in enclosure (2) and its associated attachments.

Item: *Hazard Assessments.* Since the previous industrial hygiene (IH) survey in 20 October and 6 November 2016, Organic Supply has now been identified as a LSD asset. This survey consisted of a walk-through evaluation of the work areas, sampling as required and employee interviews, as appropriate, to assist in the industrial hygiene assessment.

Recommended Action: Please review the program summaries in Attachment (1) and the individual work center hazard assessments in Attachment (2) for more details on all identified hazards. If there are any changes in work operation from what is described in this report, or if a focused health hazard evaluation of a specific work operation or new project is needed, please contact Mr. Bryan S. Arwood of the Naval Branch Health Clinic Albany Industrial Hygiene Division, at 229-639-7846 or bryan.s.arwood.civ@mail.mil.

Item: *Hearing Conservation Program and Hazardous Noise.* Noise dosimetry data acquired for LSD-Garrison Mobile Equipment (GME) processes Vehicle Maintenance Repair, Preventive Maintenance, and Administrative/Quality Control were statistically evaluated to make a determination regarding employee enrollment into the Hearing Conservation Program (HCP). Each of the three previously mentioned GME processes have been determined to subject personnel to noise exposure below the DoD occupational exposure limit (OEL) of 85dBA. Personnel noise dosimetry will continue to be conducted on the GME processes for Motor Vehicle Operations and Tire repair.

Recommended Action: Occupational Health and Audiology agree that those personnel assigned to the processes of Vehicle Maintenance Repair, Preventive Maintenance, and Administrative/Quality Control be removed from the HCP. Personnel assigned to Tire Repair and Vehicle Operations should remain enrolled in the HCP until further sampling can support there termination.

Reference: OPNAVINST 5100.23G Chapter 18 and MCO 6260.3A.

Item: *Hearing Conservation Program and Hazardous Noise.* A new tire press has been purchased for the Tire Repair section. Because of limited space in the designated tire repair area, the new noise producing equipment has been located within the vehicle maintenance bay.

Recommended Action: Noise dosimetry and sound level measurement data indicates equipment associated with tire repair exceeds the DoD occupational exposure limit. In order to minimize collateral noise exposure to other work processes, it is recommended the new tire press be relocated to the tire repair room where sound may be attenuated.

Reference: OPNAVINST 5100.23G Chapter 18 and MCO 6260.3A.

Item: *Welding Operations.* LSD Garrison Mobile Equipment (GME) has ceased welding operations due to absence of designated personnel.

Recommended Action: Please notify the Industrial Hygiene Program Office (IHPO) once an employee has been identified and operations resume.

Reference: OPNAVINST 5100.23G and DoDI 6055.05

**PERIODIC INDUSTRIAL HYGIENE SURVEY
LOGISTICS SUPPORT DIVISION
MARINE CORP LOGISTICS BASE ALBANY
REPORT NUMBER: AL19004**

Ref: (a) OPNAVINST 5100.23G, *Navy Safety and Occupational Health Program Manual*
(b) NAVMC 5100.8, *Marine Corps Occupational Safety and Health (OSH) Program Manual*
(c) Navy and Marine Corps Public Health Center (NMCPHC) Industrial Hygiene Field Operations Manual (IHFOM)

Att: (1) Evaluation Summary
(2) Individual Hazard Assessment
(3) Medical Surveillance Summary
(4) Noise Survey and Hearing Protection Requirements and Personal Noise Sampling Results Summary
(5) Exposure Monitoring Plan
(6) Neutral Posture for Computer Use/Computer Breaks
(7) Customer Satisfaction Survey

1. Introduction. Per reference (a) and (b), a periodic industrial hygiene survey of Marine Corps Logistics Base (MCLB) Albany, Logistics Support Division (LSD) was conducted 28-29 November 2018 to 3 December 2018 by Mr. Bryan S. Arwood, Industrial Hygienist, Naval Branch Health Clinic, Albany. This survey consisted of a walk-through evaluation of the work areas, a review of the operations and the hazards associated and employee interviews, as appropriate, to assist in the industrial hygiene assessment.

2. Report Contents. Reference (a) requires that each Navy workplace, or naval base supported DOD workplace, be thoroughly evaluated in order to accurately identify and quantify all potential health hazards. This report fulfills that requirement. An evaluation summary of Safety and Occupational Health (SOH) programs, control measures, and hazard evaluations is provided in attachment (1). The updated Individual Hazard Assessments for surveyed workcenter(s) are provided in attachment (2). Medical surveillance recommendations are provided in attachment (3). A list of the noise hazardous areas and operations and the required level of hearing protection is provided in attachment (4) along with a summary of personal noise sampling results. The Exposure Monitoring Plan, provided in attachment (5), details the operations/processes on which more information is required in the form of periodic sampling. Attachment (6), the Neutral Posture for Computer Use/Computer Breaks, can be used for training personnel in utilizing their computer workstations ergonomically. Attachment (7) is a Customer Satisfaction Survey, so that you may critique the services provided.

3. Design Reviews. Per reference (a), industrial hygienists should participate in the review of plans and specifications for local projects, standard operating procedures, purchasing transactions, and contracts which involve, or could create, exposure to potential health hazards, such as toxic materials, radiation, noise, or other health hazards. Cognizant facilities management and/or occupational health and safety personnel should ensure that the supporting

industrial hygienist is made aware of such plans and specifications and that they are made available for his/her review.

4. Re-evaluation Schedule and Changes in the Workplace. Please retain this report on file and post a copy in a common work area for personnel to review. IH surveys had historically been accomplished with an established survey frequency based on the nature of operations at the Activity/Command in accordance with reference (a). Survey periodicity is now scheduled at the command or shop level in accordance with reference (b). Ratings and associated survey frequency are now listed on individual work center assessment(s) within this report and reflect as High (annual), Moderate (biennial), or Low (quadrennial) hazard category. Shop periodicity will be continually re-assessed during future IH surveys. The following table provides the shop hazard category and re-evaluation schedule for the workcenter(s).

Work Center	Hazard Category⁽¹⁾	Survey Date (Mon/Yr)	Next Survey Due (Mon/Yr)
LSD-Administrative Support Office (LSD HQ)	2 (Moderate)	Nov 2018	Nov 2020
LSD-Distribution Management Office (DMO)	2 (Moderate)	Nov 2018	Nov 2020
LSD-Garrison Supply Operations	2 (Moderate)	Nov 2018	Nov 2020
LSD-Garrison Mobile Equipment (GME)	2 (Moderate)	Nov 2018	Nov 2020
LSD-Armory	2 (Moderate)	Nov 2018	Nov 2020
LSD-Organic Supply	2 (Moderate)	Nov 2018	Nov 2020

(1) Hazard categories are based on a consideration of health risk of identified chemical stressors and potential of these stressors to exceed Navy occupational exposure limits, ACGIH Threshold Limit Values, or OSHA substance-specific standards. Hazard category determination protocol is spelled out in reference (b), Chapter 2. Industrial Hygiene has discretion to conduct surveys more often than the minimum frequencies listed above.

Any significant changes in the type of operations currently performed, current workplace setting, new equipment acquired, or change in the kinds or amounts of chemical used, as identified in the survey, will result in a need for an immediate re-evaluation of the affected area. Industrial Hygiene, Naval Branch Health Clinic Albany at 229-639-7846 should be notified in the event of any significant operational changes as described above so that a prompt re-evaluation can be completed.

**PERIODIC INDUSTRIAL HYGIENE SURVEY
PROGRAM EVALUATION SUMMARY
LOGISTICS SUPPORT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY
REPORT NUMBER: AL19004
NOVEMBER 2018**

New or Significantly Modified Work Center Operations/Processes?

Comments:

- Organic Supply has now been identified as a LSD shop.
- LSD-Administrative Support and LSD-Distribution Management Office have now been upgraded to CAT 2 (Moderate Hazard) shops due to Marines who conduct periodic weapons firing.
- LSD-Garrison Mobile Equipment (GME) has ceased welding operations due to absence of assigned personnel.
- Occupational Health and Audiology agree that those personnel assigned to the processes of Vehicle Maintenance Repair, Preventive Maintenance, and Administrative/Quality Control be removed from the HCP.

Safety and Occupational Health (SOH) Program Findings and Recommendations

Ref: OPNAVINST 5100.23G

1. Medical Surveillance Program Status.

- No Medical Surveillance is Recommended.
 Medical Surveillance is Recommended.

Comments:

- The Medical Surveillance Program Summary, attachment (3) summarizes medical surveillance requirements.

2. Hazardous Material Control and Management (HMC&M) Program (Chapter 7):

AUL	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A	Accurate	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	(where spot checked)
SDS Files	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A	Accurate	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	(where spot checked)
HAZMAT Training Required?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					
Other (lead, asbestos, etc.):	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					

Comments:

- All HAZMAT was well organized. All HAZMAT storage was well maintained and kept free of spillage. SDSs were available for all materials.

3. Respiratory Protection Program (Chapter 15):

Are respirators used to control workplace exposures?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> Voluntary Use
Are they effective?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
Is the Respiratory Protection Program satisfactory?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Marginal <input checked="" type="checkbox"/> N/A
ESAMS agrees with medical surveillance recommendations?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A

Comments:

- Respirator use is not required for operations/processes performed in this shop/command.

4. Noise and Hearing Conservation Program (HCP) (Chapter 18):

Are personnel recommended for the HCP?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N		
Are personnel receiving audiograms?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Not All	<input type="checkbox"/> N/A
Is hearing protection readily available?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A	
Is hearing protection used?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Not observed
Are hearing protection devices adequate?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A	
ESAMS agrees with medical surveillance recommendations?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N/A	

Comments:

- A list of noise hazardous equipment and operations is listed in Attachment (4).

5. Personal Protective Equipment (PPE) (Chapter 20).

Is PPE required for the job? Y N
 Is PPE provided? Y N Not All N/A

Comments:

- Personnel are provided personal protective equipment for the various operations performed.

6. Lead Control Program (Chapter 21).

Is lead used in the workplace? Y N

Is exposure to lead in excess of the action level (AL)? Y N N/A

Comments:

- Personnel are potentially exposed to lead during weapons qualification and firing. However, any exposure is judged to be minimal based on the frequency, duration and methods used.
- Although inhalation exposures to lead during weapons qualifications are expected to be well below published occupational exposure limits, OSHA regulations mandate that personnel exposed to lead at any level be provided the information in Appendices A and B of the OSHA lead standard, 29 CFR 1910.1025.

7. Ergonomics (Chapter 23):

Ergonomic risk factors were identified pertaining to:

Shop work

Office/Computer work

Available equipment/furniture incorporates good ergonomic design? Y N N/A

Ergonomic training recommended? Y N

Comments:

- Main offices are typically equipped with cubicle or executive styled desks, most without keyboard trays. In general, the desks had hard edges and keyboards and mice were placed on the desktop. Few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.
- Attachment (6) illustrates the optimum computer station setup and placement of the screen, hands, and wrists.

8. Management of Reproductive hazards (Chapter 29):

Reproductive Hazards Present? Y N

Comments: Reproductive hazards listed in OPNAVINST 6000.1C or NMCPHC-TM-OEM 6260.01C have been identified in this workcenter. It is recommended that, wherever possible, the workcenter reduce, minimize, and/or eliminate the reproductive hazards and personnel exposure.

- Attached (2) indicates those constituents recognized as reproductive hazards within 'Exposure Assessment' Section.

9. Management of Carcinogenic hazards:

Cancer Causing Hazards Present? Y N

Comments:

Carcinogens have been identified in this workcenter. It is recommended that, wherever possible, the workcenter reduce, minimize, and/or eliminate carcinogens and personnel exposure. Cancer causing hazards are specifically identified for all operations addressed in attachment (2) and are summarized below:

- Attached (2) indicates those constituents recognized as carcinogenic hazards within 'Exposure Assessment' Section.

10. Other Applicable Programs:

Asbestos Control (Chapter 17)

Non-ionizing radiation (Chapter 22)

Ventilation

PCBs (Chapter 25)

Bloodborne Pathogens (Chapter 28)

Other

Comments: None.

11. Exposure Monitoring Plan (EMP):

Exposure Monitoring needs were identified.

No Exposure Monitoring needs were identified.

Comments:

- Attachment (5) provides the current Exposure Monitoring Plan.

Additional Comments: None.

TABLE OF CONTENTS
INDUSTRIAL HYGIENE SURVEY
LOGISTICS SUPPORT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY
REPORT NUMBER: AL19004

DEPARTMENTS/WORKCENTERS	PAGE
LSD-Administrative Support Office (LSD HQ)	2
LSD-Distribution Management Office (DMO)	5
LSD-Garrison Supply Operations	7
LSD-Garrison Mobile Equipment (GME)	11
LSD-Armory	19
LSD-Organic Supply	22

INDIVIDUAL HAZARD ASSESSMENT		DATE: 28 November 2018		
RECORDED BY: Bryan S. Arwood COMMAND: MCLB, Logistics Support Division (LSD) BLDG: 3500 SHOP: LSD-Administrative Support Office (LSD HQ) SHOP HAZARD PRIORITY RATING: 2		POC: Director Kelly Eadie PHONE: 639-6733 TOTAL PERSONNEL: 13 (Civ: 4) (Mil: 9) MALE: 9 FEMALE: 4		
SHOP OPERATIONS: The Logistics Support Division (LSD) Administrative Support Office includes the LSD Director, Log/Sup Officers, AA&E Chief (Armory), Organic Supply Chief, Fund Administrator, and Program Assistants. Duties are primarily administrative as they maintain the day to day activities for the Logistics Support Division.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Shop operations: Noise* 1. Administrative duties: Personnel work in an office setting and therefore should not be exposed to hazardous noises. 2. Weapons firing/qualifications: All marines are required to perform weapons qualifications and therefore are exposed to hazardous noise. Military personnel qualify on various weapons, e.g. 9mm and M-4, based on grade. Pistol qualification for E-6s and above is conducted at the Albany outdoor firing range. Initial qualification includes the use of the indoor simulation marksmanship training (ISMT) facility at Bldg. 11211. ISMT is generally used during the 1st day of instruction. E-5s and below conduct rifle qualification at the Parris Island facility.	1. 13 2. 9	1. N/A 2. 2x/year 6-8 hours	1. N/A. 2. PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA	1. ACCEPTABLE. Personnel are not exposed to hazardous noise. 2. UNACCEPTABLE: All active duty Marine Corps personnel are included by Marine Corps policy (MCO 6260.3A of 26 Sept 16) in the Hearing Conservation Program and its associated medical surveillance. Weapons qualification is known to produce overexposures to noise. Double protection is required during weapons firing on range. Double protection is required during weapons firing on range. Medical surveillance for Noise (503) is required. <i>* Noise is a recognized developmental reproductive hazard.</i>
Weapons firing/qualifications: Lead* dust When perform weapons qualifications, there could be minor exposure to lead dust. Qualifications are performed at an outdoor range. The outdoor range is cleaned/maintained by base environmental however personnel will collect brass at the end of day using a broom and dust pan. Personnel should not handle brass with bare hands unless they are prudent to wash hands after picking up the brass before eating/drinking/applying cosmetics/smoking.	9	2x/year 3-4 days/2-3 hours	PPE: Safety glasses and disposable nitrile gloves when picking up brass. ADM: Wash hands.	ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations and the natural dilution that occurs at the outdoor facility personnel should not be overexposed to lead via inhalation. Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead. <i>* Lead is a recognized reproductive hazard and carcinogen.</i> Note: Follow good hygiene practices when working with lead or lead-contaminated products.

INDIVIDUAL HAZARD ASSESSMENT		DATE: 28 November 2018		
RECORDED BY: Bryan S. Arwood COMMAND: MCLB, Logistics Support Division (LSD) BLDG: 3500 SHOP: LSD-Administrative Support Office (LSD HQ) SHOP HAZARD PRIORITY RATING: 2		POC: Director Kelly Eadie PHONE: 639-6733 TOTAL PERSONNEL: 13 (Civ: 4) (Mil: 9) MALE: 9 FEMALE: 4		
SHOP OPERATIONS: The Logistics Support Division (LSD) Administrative Support Office includes the LSD Director, Log/Sup Officers, AA&E Chief (Armory), Organic Supply Chief, Fund Administrator, and Program Assistants. Duties are primarily administrative as they maintain the day to day activities for the Logistics Support Division.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Cleaning weapons: Lead* dust and petroleum distillates* Personnel use various types of CLP (various oils and petroleum distillates) to clean weapons. This is usually drop applied and cleaned with a cloth or cotton swab. There is also the potential for contact with lead dust during this operation.	9	2x/year 15-30 minutes	PPE: Safety glasses and nitrile gloves. ADM: Wash hands thoroughly after handling weapons and brass to prevent the incidental ingestion of lead.	ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations, personnel exposure in excess of the standard is not expected. Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead. <i>* Lead is a recognized reproductive hazard and carcinogen.</i> <i>*Petroleum distillate is a recognized carcinogen.</i>
Administrative duties: Work-related musculoskeletal disorders (WMSD) (static postures) Personnel work at desks. In general, the desks had hard edges and keyboards and mice were placed on the desktop. A few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.	13	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS. No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Gel pads or wrist rests should be employed in front of the keyboards to help maintain a neutral wrist and keep the wrist off of the hard edge of the desk. As chairs are replaced, consideration should be given to purchasing ergonomic chairs with adjustable lumbar support and arm rest height. ErgoGenesis, BodyBilt chairs are an approved GSA source. Personnel should ensure that workstation is set up correctly (example included in attachment (6)) to help prevent WMSD issues from occurring. Any ergonomic-related injury should be reported to the supervisor.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL). UNCERTAIN – Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 28 November 2018		
RECORDED BY: Bryan S. Arwood COMMAND: MCLB, Logistics Support Division (LSD) BLDG: 3500 SHOP: LSD-Distribution Management Office (DMO) SHOP HAZARD PRIORITY RATING: 2		POC: LSD Branch Head Kelly Eadie PHONE: 63906733 TOTAL PERSONNEL: 2 (Civ: 1) (Mil: 1) MALE: 1 FEMALE: 1		
SHOP OPERATIONS: This office includes the transportation assistants that are responsible for processing the paperwork for passports and making the arrangements for moving household goods for government personnel. Work is primarily administrative in nature.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Shop operations: Noise* 1. Administrative duties: Personnel work in an office setting and therefore should not be exposed to hazardous noises. 2. Weapons firing/qualifications: All marines are required to perform weapons qualifications and therefore are exposed to hazardous noise. Military personnel qualify on various weapons, e.g. 9mm and M-4, based on grade. Pistol qualification for E-6s and above is conducted at the Albany outdoor firing range. Initial qualification includes the use of the indoor simulation marksmanship training (ISMT) facility at Bldg. 11211. ISMT is generally used during the 1st day of instruction. E-5s and below conduct rifle qualification at the Parris Island facility.	1. 1 2. 1	1. N/A 2. 2x/year 6-8 hours	1. N/A. 2. PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA.	1. ACCEPTABLE. Personnel are not exposed to hazardous noise. 3. UNACCEPTABLE: All active duty Marine Corps personnel are included by Marine Corps policy (MCO 6260.3A of 26 Sept 16) in the Hearing Conservation Program and its associated medical surveillance. Weapons qualification is known to produce overexposures to noise. Double protection is required during weapons firing on range. Double protection is required during use of the electric impact wrench and palletizer. As well as weapons firing on range. Medical surveillance for Noise (503) is required. <i>*Noise is a recognized reproductive hazard.</i>
Weapons firing/qualifications: Lead* dust When perform weapons qualifications, there could be minor exposure to lead dust. Qualifications are performed at an outdoor range. The outdoor range is cleaned/maintained by base environmental however personnel will collect brass at the end of day using a broom and dust pan. Personnel should not handle brass with bare hands unless they are prudent to wash hands after picking up the brass before eating/drinking/applying cosmetics/smoking.	1	2x/year 3-4 days/2-3 hours	PPE: Safety glasses and disposable nitrile gloves when picking up brass. ADM: Wash hands.	ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations and the natural dilution that occurs at the outdoor facility personnel should not be overexposed to lead via inhalation. Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead. <i>* Lead is a recognized reproductive hazard and carcinogen.</i> Note: Follow good hygiene practices when working with lead or lead-contaminated products.

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COMMAND: MCLB, Logistics Support Division (LSD)			PHONE: 63906733	
BLDG: 3500			TOTAL PERSONNEL: 2 (Civ: 1) (Mil: 1)	
SHOP: LSD-Distribution Management Office (DMO)			MALE: 1	
SHOP HAZARD PRIORITY RATING: 2			FEMALE: 1	
SHOP OPERATIONS: This office includes the transportation assistants that are responsible for processing the paperwork for passports and making the arrangements for moving household goods for government personnel. Work is primarily administrative in nature.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Cleaning weapons: Lead* dust and petroleum distillates*</p> <p>Personnel use various types of CLP (various oils and petroleum distillates) to clean weapons. This is usually drop applied and cleaned with a cloth or cotton swab. There is also the potential for contact with lead dust during this operation.</p>	1	2x/year 15-30 minutes	<p>PPE: Safety glasses and nitrile gloves.</p> <p>ADM: Wash hands thoroughly after handling weapons and brass to prevent the incidental ingestion of lead.</p>	<p>ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations, personnel exposure in excess of the standard is not expected.</p> <p>Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead.</p> <p><i>* Lead is a recognized reproductive hazard and carcinogen.</i></p> <p><i>*Petroleum distillate is a recognized carcinogen.</i></p>
<p>Administrative duties: Work-related musculoskeletal disorders (WMSD) (static postures)</p> <p>Personnel work at desks. In general, the desks had hard edges and keyboards and mice were placed on the desktop. A few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.</p>	2	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	<p>WMSD RISK FACTORS. No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough.</p> <p>Gel pads or wrist rests should be employed in front of the keyboards to help maintain a neutral wrist and keep the wrist off of the hard edge of the desk. As chairs are replaced, consideration should be given to purchasing ergonomic chairs with adjustable lumbar support and arm rest height. ErgoGenesis, BodyBilt chairs are an approved GSA source.</p> <p>Personnel should ensure that workstation is set up correctly (example included in attachment (6)) to help prevent WMSD issues from occurring.</p> <p>Any ergonomic-related injury should be reported to the supervisor.</p>
<p>1. USE THE FOLLOWING CONTROL CODES:</p> <p>ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation</p>				
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL). UNCERTAIN – Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT		DATE:	28 November 2018	
RECORDED BY:	Bryan S. Arwood	POC:	Mrs. Felicia Smith	
COMMAND:	MCLB, Logistics Support Division (LSD)	PHONE:	639-6271	
BLDG:	1330	TOTAL PERSONNEL:	13 (Civ: 13)	
SHOP:	LSD-Garrison Supply Operations	MALE:	10	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	4	
<p>SHOP OPERATIONS: The Garrison Supply Branch and Direct Support Stock Control has merged into Garrison Supply Operations and is broken down into 2 sections:</p> <p>Administrative Section (7 Civ. 3 M, 4 F): This includes the Branch Head and Supervisor (2 Civ.), DPAS (3 Civ.), HAZMAT Customer Service (2 Civ.) and ServMart (1 Civ.). Personnel in DPAS are responsible for maintaining all base property records in the DPAS computer system. HAZMAT Customer service personnel are responsible for purchasing all hazardous material on base. ServMart maintains the store to include stocking shelves and checking out shoppers.</p> <p>Warehouse Section (6 Civ. 6M): This includes Warehouse Receiving (3 Civ.), HAZMAT Cell (2 Civ.) and Tool Room Attendant (1 Civ.). Personnel in warehouse receiving are responsible for processing all incoming supplies, DRMO, and setting up for functions. Personnel in the HAZMAT cell (Bldg. 1260) are responsible for maintaining all hazardous material on base to include receiving, tracking and issuing. The tool room attendant works at the Marine Depot Maintenance Center (Bldg. 2200) distributing tools to the workers.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Shop operations: Noise*</p> <p>1. Administrative Section: Personnel work in an office setting most of the day, however personnel from DPAS have to enter the warehouse area for inventory and there is the possibility to be exposed to noise.</p> <p>2. Warehouse Section: Personnel work in a warehouse setting where there is the possibility to be exposed to noise is low.</p>	<p>1. 3</p> <p>2. 6</p>	<p>1. 4x/year 1-2 hours As needed</p> <p>2. Daily Up to 8 hours</p>	<p>PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.</p>	<p>1 and 2. ACCEPTABLE. Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation.</p> <p><i>*Noise is a recognized developmental reproductive hazard.</i></p>
<p>Warehouse section-Warehouse Receiving: Carbon monoxide*</p> <p>1. Equipment setup: Personnel are responsible for setting up furniture for the base. This can include the use of a forklift as needed.</p> <p>2. Supplies: Personnel are responsible for processing all supplies that comes onto the base. This includes collecting boxes from the UPS, unload and process, sort and store on pallets. This can include the use of a forklift as needed.</p> <p>There are 2 electric and 2 gas forklifts. Bay doors are open during gas forklifts use to prevent a buildup of exhaust gases (including carbon monoxide).</p>	<p>1. 3</p> <p>2. 3</p>	<p>1. Daily Up to 8 hours per setup</p> <p>3. Daily Up to 5-6 hours per delivery</p>	<p>PPE: Steel toed shoes and safety glasses (as needed).</p> <p>ADM: Gas powered fork lifts are not allowed to idle within the warehouse. Bay doors are left open during forklift use.</p>	<p>ACCEPTABLE. No significant exposures to carbon monoxide expected based on the nature of exposure as described as well as amounts exposed. When using gas forklifts ensure the bay doors are open to ventilate the carbon dioxide build up and minimize idling in the open bays.</p> <p><i>*Carbon monoxide is considered a reproductive hazard.</i></p> <p>Medical Certification for Forklift Operator/Material Handling Equipment (710) is required.</p>

INDIVIDUAL HAZARD ASSESSMENT		DATE:	28 November 2018	
RECORDED BY:	Bryan S. Arwood	POC:	Mrs. Felicia Smith	
COMMAND:	MCLB, Logistics Support Division (LSD)	PHONE:	639-6271	
BLDG:	1330	TOTAL PERSONNEL:	13 (Civ: 13)	
SHOP:	LSD-Garrison Supply Operations	MALE:	10	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	4	
<p>SHOP OPERATIONS: The Garrison Supply Branch and Direct Support Stock Control has merged into Garrison Supply Operations and is broken down into 2 sections:</p> <p>Administrative Section (7 Civ. 3 M, 4 F): This includes the Branch Head and Supervisor (2 Civ.), DPAS (3 Civ.), HAZMAT Customer Service (2 Civ.) and ServMart (1Civ.). Personnel in DPAS are responsible for maintaining all base property records in the DPAS computer system. HAZMAT Customer service personnel are responsible for purchasing all hazardous material on base. ServMart maintains the store to include stocking shelves and checking out shoppers.</p> <p>Warehouse Section (6 Civ. 6M): This includes Warehouse Receiving (3 Civ.), HAZMAT Cell (2 Civ.) and Tool Room Attendant (1 Civ.). Personnel in warehouse receiving are responsible for processing all incoming supplies, DRMO, and setting up for functions. Personnel in the HAZMAT cell (Bldg. 1260) are responsible for maintaining all hazardous material on base to include receiving, tracking and issuing. The tool room attendant works at the Marine Depot Maintenance Center (Bldg. 2200) distributing tools to the workers.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Warehouse section-Shop operations: Heat stress*</p> <p>All personnel in the warehouse work in a non-air conditioned environment for extended periods of time. During summer months, fans and spot coolers are used.</p>	6	Daily 6-8 hours	ADM: Work/rest cycles based on the flag condition.	<p>ACCEPTABLE. Water and work/rest breaks should be adhered to based on the flag condition. Personnel are allowed to take breaks in air conditioned areas as needed and have personal fans at workstations.</p> <p><i>*High heat is considered a reproductive hazard.</i></p>
<p>Warehouse section-HAZMAT Cell: Carbon monoxide*</p> <p>Personnel are responsible for processing hazardous materials received on base. This includes receiving, tracking, storing, and issuing hazardous material. This can include the use of a forklift as needed when stocking supplies. There are 1 electric and 1 gas forklifts.</p> <p>Flammables are stored in Bldg 1260 Bay 13.</p> <p>Compressed gas cylinders are stored in Bldg 1259.</p>	2	Daily 1-2 hours	<p>DV: Dilution ventilation.</p> <p>ADM: Gas powered fork lifts are not allowed to idle within the warehouse. Bay doors are left open during forklift use.</p>	<p>ACCEPTABLE. No significant exposures to carbon monoxide expected based on the nature of exposure as described as well as amounts exposed. The warehouse does have exhaust ventilation that provides dilution capabilities to assist with the buildup of flammable vapors. There is no minimum requirement for ventilation in a large warehouse used for storing flammables; therefore a survey will not be performed. Industrial hygiene will continue to verify the exhaust is working as a precaution.</p> <p><i>*Carbon monoxide is considered a reproductive hazard.</i></p> <p>Medical Certification for Forklift Operator/Material Handling Equipment (710) is required.</p>

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SHOP:	LSD-Garrison Supply Operations	MALE:	10	
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OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Material Handling (lifting/moving): Work-related musculoskeletal disorders (WMSD) (lifting/moving and dynamic postures)</p> <p>1. Admin section: The person that works in the ServMart may have to lift heavy objects. Personnel are trained to use 2 man lift when needed or get someone from the warehouse to move with the forklift.</p> <p>2. Warehouse section: Personnel may have to lift heavy objects. Personnel are trained to use 2 man lift or use the forklift.</p>	1. 1 2. 6	Daily Up to 8 hours	ADM: 2-man lift over 40 lbs. and use of material handling equipment (e.g. pallet jacks).	<p>WMSD RISK FACTORS. No problems reported. There is the potential for ergonomic injuries to occur; training is recommended. Continue to provide regular awareness training on the proper movement and placement of heavy components and parts.</p> <p>Any ergonomic-related injury should be reported to the supervisor.</p> <p><i>*Heavy lifting is considered a reproductive hazard.</i></p>
<p>Administrative duties: Work-related musculoskeletal disorders (WMSD) (static postures)</p> <p>Personnel work at desks. In general, the desks had hard edges and keyboards and mice were placed on the desktop. A few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.</p>	7	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	<p>WMSD RISK FACTORS. No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough.</p> <p>Gel pads or wrist rests should be employed in front of the keyboards to help maintain a neutral wrist and keep the wrist off of the hard edge of the desk. As chairs are replaced, consideration should be given to purchasing ergonomic chairs with adjustable lumbar support and arm rest height. ErgoGenesis, BodyBilt chairs are an approved GSA source.</p> <p>Personnel should ensure that workstation is set up correctly (example included in attachment (6)) to help prevent WMSD issues from occurring.</p> <p>Any ergonomic-related injury should be reported to the supervisor.</p>
<p>1. USE THE FOLLOWING CONTROL CODES:</p> <p>ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation</p>				

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BLDG:	1330	TOTAL PERSONNEL:	13 (Civ: 13)	
SHOP:	LSD-Garrison Supply Operations	MALE:	10	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	4	
SHOP OPERATIONS: The Garrison Supply Branch and Direct Support Stock Control has merged into Garrison Supply Operations and is broken down into 2 sections:				
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OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>UNCERTAIN – Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT		DATE:	03 December 2018	
RECORDED BY:	Bryan S. Arwood	POC:	Mr. Mel Scoggins	
COMMAND:	MCLB, Logistics Support Division (LSD)	PHONE:	639-5606/5605/7629	
BLDG:	5400	TOTAL PERSONNEL:	33 (Civ: 30)	
SHOP:	LSD-Garrison Mobile Equipment (GME)	MALE:	28	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	2	
<p>SHOP OPERATIONS: Garrison Mobile Equipment is responsible for all government owned vehicles on base. GME is broken down into three major sections:</p> <p>Administrative Section (6 Civ, 4 M, 2 F): This includes the Branch Head, Transportation Assistant (Civ), Mobile Equipment Inspectors (Civ), the Training Instructor-Safety Rep (Civ), licensing officer, and secretary.</p> <p>Support Section (13 Civ, 13 M): This includes the Auto Mechanic Supervisor, tool room attendant, tire repairer and the Auto mechanics/workers (11 M). The tool room attendant is responsible for issuing out tools and supplies and maintaining the hazardous materials. The Tire repairer is responsible for repairing tires and the auto mechanics/workers perform either repairs or perform preventive maintenance on vehicles.</p> <p>Operation Section (11 Civ, 10 M, 1 F): This includes the Transportation Supervisor, dispatcher, taxi driver, and motor vehicle drivers (10 M). The motor vehicle drivers drive delivery trucks and a refueler.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Shop operations: Noise*</p> <p>1. Administrative section and Operation section: Personnel may come into contact with hazardous noise sources throughout the day when transiting the work bay or via various truck noises.</p> <p>2. Support section-Tire repair: Personnel use various machines to repair tires to include removing rims, replacing rims and filling tires with air.</p> <p>3. Support section-Vehicle maintenance: Personnel work with noise producing equipment for short durations.</p>	<p>1. 17</p> <p>2. 1</p> <p>3. 12</p>	<p>1. Intermittent Less than 30 a day</p> <p>2. 2-3x/week Up to 8 hours</p> <p>3. Intermittent Less than 30 a day</p>	<p>PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.</p>	<p>1. ACCEPTABLE: Personnel's exposure to noise on a normal basis is not considered to be hazardous for extended periods of time.</p> <p>2. UNACCEPTABLE. Based on personal noise dosimetry sampling. Personnel should remain in the Hearing Conservation Program. More sampling is recommended.</p> <p>Medical surveillance for Noise (503) is required.</p> <p>3. ACCEPTABLE. Although personnel work with noise hazardous equipment, the duration is not sufficient to be of concern; however, personnel were previously recommended to and placed in medical surveillance. Sampling has validated that personnel may be terminated from the HCP.</p> <p>See attachment (4) for noise dosimetry results.</p> <p><i>*Noise is a recognized developmental reproductive hazard.</i></p>

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BLDG:	5400	TOTAL PERSONNEL:	33 (Civ: 30)	
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OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Support section-Vehicle Maintenance-Spray painting: Acetone, n-butyl acetate, carbon black, toluene*, naphtha and methyl propyl ketone</p> <p>Personnel may use the following spray paints when labeling forklifts:</p> <p>Eco Sure Flat Black 37038: Acetone, N-butyl acetate and carbon black</p> <p>Eco Sure Gloss Silver 17178: Toluene*, acetone and naphtha 8032-32-4</p> <p>Eco Sure Gloss White 17875: Methyl isoamyl ketone, acetone, butanol, methyl propyl ketone</p> <p>Eco Sure Gloss Red 11136: Acetone, N-butyl acetate, methyl isoamyl ketone, butanol and methyl propyl ketone</p> <p>Eco Sure Gloss Yellow 13538: N-Butyl Acetate</p>	13	1x/week Less than 5 minutes	<p>PPE: Safety glasses and chemical resistant gloves (nitrile).</p> <p>ADM: HazMat training.</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>*Toluene is a recognized reproductive hazard.</i></p>

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OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Support section-Vehicle Maintenance-repair and preventive maintenance: Bisphenol A Epoxy Resin, trichloroethylene, xylene*, 2-butoxyethanol, and ethylbenzene</p> <p>Personnel may use the following when performing vehicle maintenance:</p> <p>Hardman Double Bubble Epoxy kit: Part A Bisphenol A Epoxy Resin 25068-38-6, Part B 2,4,6-tris(dimethylaminomethyl)phenol</p> <p>ZEP Battery Coat: Trichloroethylene, xylene*, 2-butoxyethanol, and ethylbenzene</p> <p>CRC Battery Terminal Protector: Kerosene, xylene*, ethylbenzene, methylcyclohexane</p>	13	2x/week Less than 15 minutes at a time.	<p>PPE: Safety glasses and chemical resistant gloves (nitrile).</p> <p>ADM: HazMat training.</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>*Xylene is a recognized reproductive hazard.</i></p>
<p>Support section-Vehicle Maintenance-repair and preventive maintenance: carbon monoxide*</p> <p>Personnel work on and drive forklifts to move heavy objects around the bay.</p>	13	Daily 1-2 hours	<p>ADM: Gas powered fork lifts are not allowed to idle within the warehouse. Bay doors are left open during forklift use.</p>	<p>ACCEPTABLE. No significant exposures to carbon monoxide expected based on the nature of exposure as described as well as amounts exposed.</p> <p><i>*Carbon monoxide is considered a reproductive hazard.</i></p> <p>Medical Certification for Forklift Operator/Material Handling Equipment (710) is required.</p>

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OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Support section-Vehicle Maintenance-repair: Trichloroethylene, naphtha, kerosene, toluene*, and petroleum distillates*</p> <p>Personnel can perform various types of repairs to include minor (replacing parts) or major (engines and transmissions) work on GOV vehicles. This can include using any of the following</p> <p>ZEP Aerosolve II solvent degreaser: trichloroethylene and carbon dioxide</p> <p>LPS Heavy duty silicone lubricant 01516: Naphtha 64742-48-9</p> <p>PB Blaster Penetrating Catalyst: Solvent naphtha 64742-94-5 and Naphthalene 91-20-3</p> <p>Motor Medic Thrust Starting Fluid: Petroleum distillates 64742-53-6</p> <p>CRC Carb & Choke Cleaner : Toluene*, methanol and acetone</p> <p>Zep 2000 Heavy Duty Clear Penetrating Grease: Heptane, petroleum distillates 64742-47-8</p> <p>PB Blaster Air tool conditioner: Petroleum distillates 64742-65-0</p> <p>Gunk Engine Degreaser: Kerosene and naphthalene</p> <p>Safety-Kleen solvent in the parts washer: Petroleum distillates 64742-47-8</p>	13	2x/week Less than 15 minutes at a time.	<p>PPE: Safety glasses and chemical resistant gloves (nitrile).</p> <p>ADM: HazMat training.</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>*Toluene is a recognized reproductive hazard.</i></p> <p><i>*Petroleum distillate is a recognized carcinogen.</i></p>

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OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Support section-Vehicle Maintenance-preventive maintenance: Trichloroethylene, naphtha, kerosene, toluene*, and petroleum distillates*</p> <p>Personnel can perform various preventive maintenance tasks such as oil changes. This can include using any of the following</p> <p>ZEP Aerosolve II solvent degreaser: trichloroethylene and carbon dioxide</p> <p>LPS Heavy duty silicone lubricant 01516: Naphtha 64742-48-9</p> <p>PB Blaster Penetrating Catalyst: Solvent naphtha 64742-94-5 and Naphthalene 91-20-3</p> <p>Motor Medic Thrust Starting Fluid: Petroleum distillates 64742-53-6</p> <p>CRC Carb & Choke Cleaner : Toluene*, methanol and acetone</p> <p>Zep 2000 Heavy Duty Clear Penetrating Grease: Heptane, petroleum distillates 64742-47-8</p> <p>PB Blaster Air tool conditioner: Petroleum distillates 64742-65-0</p> <p>Gunk Engine Degreaser: Kerosene and naphthalene</p> <p>Safety-Kleen solvent in the parts washer: Petroleum distillates 64742-47-8</p>	13	2x/week Less than 15 minutes at a time.	<p>ENG: Process isolation (Closed loop system on Safety Kleen solvent tank).</p> <p>ADM: HazMat training.</p> <p>PPE: Safety glasses and chemical resistant gloves (nitrile).</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>*Toluene is a recognized reproductive hazard.</i></p> <p><i>*Petroleum distillate is a recognized carcinogen.</i></p>

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SHOP:	LSD-Garrison Mobile Equipment (GME)	MALE:	28	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	2	
<p>SHOP OPERATIONS: Garrison Mobile Equipment is responsible for all government owned vehicles on base. GME is broken down into three major sections:</p> <p>Administrative Section (6 Civ, 4 M, 2 F): This includes the Branch Head, Transportation Assistant (Civ), Mobile Equipment Inspectors (Civ), the Training Instructor-Safety Rep (Civ), licensing officer, and secretary.</p> <p>Support Section (13 Civ, 13 M): This includes the Auto Mechanic Supervisor, tool room attendant, tire repairer and the Auto mechanics/workers (11 M). The tool room attendant is responsible for issuing out tools and supplies and maintaining the hazardous materials. The Tire repairer is responsible for repairing tires and the auto mechanics/workers perform either repairs or perform preventive maintenance on vehicles.</p> <p>Operation Section (11 Civ, 10 M, 1 F): This includes the Transportation Supervisor, dispatcher, taxi driver, and motor vehicle drivers (10 M). The motor vehicle drivers drive delivery trucks and a refueler.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Support section-Vehicle Maintenance-Drain and replace vehicle fluids: Petroleum distillates*</p> <p>Personnel may have drain/replace specific fluids from the vehicle before/after repairs or during preventive maintenance. Personnel drain fluids into a drum or pan and pumped into a 55 gallon drum for disposal.</p> <p>The following fluids are drained and/or replaced:</p> <p>SAE 15W-40 engine oil: Mixture of Hydrotreated distillates</p> <p>Dilmar premium hydraulic oil (HYD-32 and AW 46): mixture of highly refined mineral oil</p> <p>Extreme Blue Windshield Washer Fluid: Methanol</p> <p>Prestone GW Dex-Cool Antifreeze/coolant: ethylene glycol and diethylene glycol</p> <p>ShellZone AF/ELC MV 50/50 Prediluted : ethylene glycol and diethylene glycol</p> <p>Havoline Dex-Cool Extended life AF/C: ethylene glycol and diethylene glycol</p> <p>Chevron Automatic Transmission Fluid Dexron-III/Mercon: Petroleum distillates (64742-54-7 and 64742-46-7)</p>	All	Daily Intermittent throughout the day	<p>ENG: Process isolation (Closed loop system).</p> <p>ADM: HazMat training.</p> <p>PPE: Safety glasses and resistant gloves (nitrile) as needed for chemical use.</p>	<p>ACCEPTABLE. Based on limited duration and closed loop system, personal exposure to chemicals is minimal.</p> <p><i>*Petroleum distillate (64742-52-5) is a recognized carcinogen.</i></p>

INDIVIDUAL HAZARD ASSESSMENT		DATE:	03 December 2018	
RECORDED BY:	Bryan S. Arwood	POC:	Mr. Mel Scoggins	
COMMAND:	MCLB, Logistics Support Division (LSD)	PHONE:	639-5606/5605/7629	
BLDG:	5400	TOTAL PERSONNEL:	33 (Civ: 30)	
SHOP:	LSD-Garrison Mobile Equipment (GME)	MALE:	28	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	2	
<p>SHOP OPERATIONS: Garrison Mobile Equipment is responsible for all government owned vehicles on base. GME is broken down into three major sections:</p> <p>Administrative Section (6 Civ, 4 M, 2 F): This includes the Branch Head, Transportation Assistant (Civ), Mobile Equipment Inspectors (Civ), the Training Instructor-Safety Rep (Civ), licensing officer, and secretary.</p> <p>Support Section (13 Civ, 13 M): This includes the Auto Mechanic Supervisor, tool room attendant, tire repairer and the Auto mechanics/workers (11 M). The tool room attendant is responsible for issuing out tools and supplies and maintaining the hazardous materials. The Tire repairer is responsible for repairing tires and the auto mechanics/workers perform either repairs or perform preventive maintenance on vehicles.</p> <p>Operation Section (11 Civ, 10 M, 1 F): This includes the Transportation Supervisor, dispatcher, taxi driver, and motor vehicle drivers (10 M). The motor vehicle drivers drive delivery trucks and a refueler.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Operation section-Refueler: Diesel fuel (68476-34-6), naphthalene, toluene*, xylene*, and benzene*</p> <p>Personnel drive class 4 trucks (motor vehicle operators).</p> <p>On a daily basis, one person fills a truck with fuel (No 2 diesel fuel (diesel fuel (68476-34-6) and naphthalene) and 87 Octane Phillips 66 Unbranded Conventional Gasoline-gasoline, toluene*, xylene*, benzene*, and ethylbenzene) and goes to a designated location on base for personnel to come and refuel vehicles.</p>	11	Daily Up to 8 hours	<p>ENG: Closed loop system.</p> <p>ADM: HazMat training.</p> <p>PPE: Face shield, refueler gloves.</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>*Toluene and xylene are recognized reproductive hazards.</i></p> <p><i>*Benzene is a recognized carcinogen.</i></p> <p>Medical Certification for Motor Vehicle Operator (706 or 712) may be required.</p>
<p>Administrative duties: Work-related musculoskeletal disorders (WMSD) (static postures)</p> <p>Personnel work at desks. In general, the desks had hard edges and keyboards and mice were placed on the desktop. A few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.</p>	7	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	<p>WMSD RISK FACTORS. No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough.</p> <p>Gel pads or wrist rests should be employed in front of the keyboards to help maintain a neutral wrist and keep the wrist off of the hard edge of the desk. As chairs are replaced, consideration should be given to purchasing ergonomic chairs with adjustable lumbar support and arm rest height. ErgoGenesis, BodyBilt chairs are an approved GSA source.</p> <p>Personnel should ensure that workstation is set up correctly (example included in attachment (6)) to help prevent WMSD issues from occurring.</p> <p>Any ergonomic-related injury should be reported to the supervisor.</p>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 03 December 2018		
RECORDED BY: Bryan S. Arwood		POC: Mr. Mel Scoggins		
COMMAND: MCLB, Logistics Support Division (LSD)		PHONE: 639-5606/5605/7629		
BLDG: 5400		TOTAL PERSONNEL: 33 (Civ: 30)		
SHOP: LSD-Garrison Mobile Equipment (GME)		MALE: 28		
SHOP HAZARD PRIORITY RATING: 2		FEMALE: 2		
SHOP OPERATIONS: Garrison Mobile Equipment is responsible for all government owned vehicles on base. GME is broken down into three major sections:				
Administrative Section (6 Civ, 4 M, 2 F): This includes the Branch Head, Transportation Assistant (Civ), Mobile Equipment Inspectors (Civ), the Training Instructor-Safety Rep (Civ), licensing officer, and secretary.				
Support Section (13 Civ, 13 M): This includes the Auto Mechanic Supervisor, tool room attendant, tire repairer and the Auto mechanics/workers (11 M). The tool room attendant is responsible for issuing out tools and supplies and maintaining the hazardous materials. The Tire repairer is responsible for repairing tires and the auto mechanics/workers perform either repairs or perform preventive maintenance on vehicles.				
Operation Section (11 Civ, 10 M, 1 F): This includes the Transportation Supervisor, dispatcher, taxi driver, and motor vehicle drivers (10 M). The motor vehicle drivers drive delivery trucks and a refueler.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
1. USE THE FOLLOWING CONTROL CODES:				
ADM – Administrative Controls		PPE – Personal Protective Equipment		ISO – Isolation
DV – Dilution Ventilation		ENG – Engineering Controls		LV – Local Ventilation
2. EXPOSURE ASSESSMENT refers to “Potential” exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:				
ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).				
UNCERTAIN – Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment.				
UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.				
WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.				
SKIN – The material poses a skin absorption hazard.				
REPRO HAZARD – The material is a Navy-recognized reproductive hazard.				
CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 29 November 2018		
RECORDED BY: Bryan S. Arwood		POC: GySgt Haskill		
COMMAND: MCLB, Logistics Support Division (LSD)		PHONE: 229-639-5108		
BLDG: 1351 Bay 4 (Temporary Location)		TOTAL PERSONNEL: 5 (Mil: 5)		
SHOP: LSD-Armory		MALE: 5		
SHOP HAZARD PRIORITY RATING: 2		FEMALE: 0		
SHOP OPERATIONS: The Armory is responsible for maintaining weapons for the base. This includes storing and issuing out weapons and ammunition to the Marines stationed and/or performing weapons qualifications on base. This also includes storing and issuing historical weapons used for performances.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Shop operations: Noise*</p> <p>1. Armory: Personnel work in a warehouse setting where noise exposure is not expected.</p> <p>2. Weapons firing/qualifications: All marines are required to perform weapons qualifications and therefore are exposed to hazardous noise.</p> <p>Military personnel qualify on various weapons, e.g. 9mm and M-4, based on grade.</p> <p>Pistol qualification for E-6s and above is conducted at the Albany outdoor firing range. Initial qualification includes the use of the indoor simulation marksmanship training (ISMT) facility at Bldg. 11211. ISMT is generally used during the 1st day of instruction.</p> <p>E-5s and below conduct rifle qualification at the Parris Island facility.</p>	5	<p>1. As needed Up to 8 hours</p> <p>2. 2x/year 6-8 hours</p>	<p>1. N/A</p> <p>2. PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA</p>	<p>1. ACCEPTABLE: Personnel's exposure to noise on a normal basis is not considered to be hazardous for extended period of time.</p> <p>2. UNACCEPTABLE: All active duty Marine Corps personnel are included by Marine Corps policy (MCO 6260.3A of 26 Sept 16) in the Hearing Conservation Program and its associated medical surveillance. Weapons qualification is known to produce overexposures to noise. Double protection is required during weapons firing on range.</p> <p>Double protection is required during weapons firing on range.</p> <p>Medical surveillance for Noise (503) is required.</p> <p><i>*Noise is a recognized developmental reproductive hazard.</i></p>

INDIVIDUAL HAZARD ASSESSMENT			DATE:	29 November 2018
RECORDED BY:	Bryan S. Arwood		POC:	GySgt Haskill
COMMAND:	MCLB, Logistics Support Division (LSD)		PHONE:	229-639-5108
BLDG:	1351 Bay 4 (<i>Temporary Location</i>)		TOTAL PERSONNEL:	5 (Mil: 5)
SHOP:	LSD-Armory		MALE:	5
SHOP HAZARD PRIORITY RATING:	2		FEMALE:	0
SHOP OPERATIONS: The Armory is responsible for maintaining weapons for the base. This includes storing and issuing out weapons and ammunition to the Marines stationed and/or performing weapons qualifications on base. This also includes storing and issuing historical weapons used for performances.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Weapons firing/qualifications: Lead* dust</p> <p>When perform weapons qualifications, there could be minor exposure to lead dust. Qualifications are performed at an outdoor range.</p> <p>The outdoor range is cleaned/maintained by base environmental however personnel will collect brass at the end of day using a broom and dust pan. Personnel should not handle brass with bare hands unless they are prudent to wash hands after picking up the brass before eating/drinking/applying cosmetics/smoking.</p>	5	2x/year 3-4 days/2-3 hours	<p>PPE: Safety glasses and disposable nitrile gloves when picking up brass.</p> <p>ADM: Wash hands.</p>	<p>ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations and the natural dilution that occurs at the outdoor facility personnel should not be overexposed to lead via inhalation. Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead.</p> <p><i>* Lead is a recognized reproductive hazard and carcinogen.</i></p> <p>Note: Follow good hygiene practices when working with lead or lead-contaminated products.</p>
<p>Minor weapons repair: Lead* dust and petroleum distillates*</p> <p>Personnel may perform minor weapons repairs to include replacing parts or fixing jams. This may include the use of CLP (petroleum distillates).</p>	3	As needed Less than 30 minutes	<p>PPE: Safety glasses, nitrile gloves</p> <p>ADM: Wash hands.</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>* Lead is a recognized reproductive hazard and carcinogen.</i></p> <p><i>*Petroleum distillates is a recognized carcinogen.</i></p>
<p>Collection of miscellaneous ammo on base: Lead* dust</p> <p>Personnel are responsible for collecting ammo found in vehicles at the maintenance center or on base.</p>	2	As needed Less than 30 minutes	<p>PPE: Nitrile gloves.</p> <p>ADM: Wash hands.</p>	<p>ACCEPTABLE. No significant exposures are expected based on the nature of exposure as described.</p> <p><i>* Lead is a recognized reproductive hazard and carcinogen.</i></p>

INDIVIDUAL HAZARD ASSESSMENT				DATE: 29 November 2018
RECORDED BY: Bryan S. Arwood		COMMAND: MCLB, Logistics Support Division (LSD)		POC: GySgt Haskill
BLDG: 1351 Bay 4 (<i>Temporary Location</i>)		SHOP: LSD-Armory		PHONE: 229-639-5108
SHOP HAZARD PRIORITY RATING: 2				TOTAL PERSONNEL: 5 (Mil: 5)
				MALE: 5
				FEMALE: 0
SHOP OPERATIONS: The Armory is responsible for maintaining weapons for the base. This includes storing and issuing out weapons and ammunition to the Marines stationed and/or performing weapons qualifications on base. This also includes storing and issuing historical weapons used for performances.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Administrative duties: Work-related musculoskeletal disorders (WMSD) (static postures) Personnel work at desks. In general, the desks had hard edges and keyboards and mice were placed on the desktop. A few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.	5	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS. No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Gel pads or wrist rests should be employed in front of the keyboards to help maintain a neutral wrist and keep the wrist off of the hard edge of the desk. As chairs are replaced, consideration should be given to purchasing ergonomic chairs with adjustable lumbar support and arm rest height. ErgoGenesis, BodyBilt chairs are an approved GSA source. Personnel should ensure that workstation is set up correctly (example included in attachment (6)) to help prevent WMSD issues from occurring. Any ergonomic-related injury should be reported to the supervisor.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to “Potential” exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL). UNCERTAIN – Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT			DATE:	29 November 2018
RECORDED BY:	Bryan S. Arwood		POC:	GySgt Serpas
COMMAND:	MCLB, Logistics Support Division (LSD)		PHONE:	229-639-5108
BLDG:	1351		TOTAL PERSONNEL:	5 (Mil: 5)
SHOP:	LSD-Organic Supply		MALE:	4
SHOP HAZARD PRIORITY RATING:	2		FEMALE:	1
SHOP OPERATIONS: Organic Supply is responsible for issuing gear for the Marines on base. This includes storing, staging, and issuing out personal protective equipment for range and field supplies.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Shop operations: Noise*</p> <p>1. Organic Supply: Personnel work in a warehouse setting where noise exposure is not expected.</p> <p>2. Weapons firing/qualifications: All marines are required to perform weapons qualifications and therefore are exposed to hazardous noise.</p> <p>Military personnel qualify on various weapons, e.g. 9mm and M-4, based on grade.</p> <p>Pistol qualification for E-6s and above is conducted at the Albany outdoor firing range. Initial qualification includes the use of the indoor simulation marksmanship training (ISMT) facility at Bldg. 11211. ISMT is generally used during the 1st day of instruction.</p> <p>E-5s and below conduct rifle qualification at the Parris Island facility.</p>	5	<p>1. As needed Up to 8 hours</p> <p>2. 2x/year 6-8 hours</p>	<p>1. N/A</p> <p>2. PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA</p>	<p>1. ACCEPTABLE: Personnel's exposure to noise on a normal basis is not considered to be hazardous for extended period of time.</p> <p>2. UNACCEPTABLE: All active duty Marine Corps personnel are included by Marine Corps policy (MCO 6260.3A of 26 Sept 16) in the Hearing Conservation Program and its associated medical surveillance. Weapons qualification is known to produce overexposures to noise. Double protection is required during weapons firing on range.</p> <p>Double protection is required during weapons firing on range.</p> <p>Medical surveillance for Noise (503) is required.</p>
<p>Weapons firing/qualifications: Lead* dust</p> <p>When perform weapons qualifications, there could be minor exposure to lead dust. Qualifications are performed at an outdoor range.</p> <p>The outdoor range is cleaned/maintained by base environmental however personnel will collect brass at the end of day using a broom and dust pan. Personnel should not handle brass with bare hands unless they are prudent to wash hands after picking up the brass before eating/drinking/applying cosmetics/smoking.</p>	5	<p>2x/year 3-4 days/2-3 hours</p>	<p>PPE: Safety glasses and disposable nitrile gloves when picking up brass.</p> <p>ADM: Wash hands.</p>	<p>ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations and the natural dilution that occurs at the outdoor facility personnel should not be overexposed to lead via inhalation. Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead.</p> <p><i>* Lead is a recognized reproductive hazard and carcinogen.</i></p> <p>Note: Follow good hygiene practices when working with lead or lead-contaminated products.</p>

INDIVIDUAL HAZARD ASSESSMENT				DATE:	29 November 2018
RECORDED BY: Bryan S. Arwood			POC: GySgt Serpas		
COMMAND: MCLB, Logistics Support Division (LSD)			PHONE: 229-639-5108		
BLDG: 1351			TOTAL PERSONNEL: 5 (Mil: 5)		
SHOP: LSD-Organic Supply			MALE: 4		
SHOP HAZARD PRIORITY RATING: 2			FEMALE: 1		
SHOP OPERATIONS: Organic Supply is responsible for issuing gear for the Marines on base. This includes storing, staging, and issuing out personal protective equipment for range and field supplies.					
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NUMBER OF WKRS	FREQUENCY /DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)	
<p>Cleaning weapons: Lead* dust and petroleum distillates*</p> <p>Personnel use various types of CLP (various oils and petroleum distillates) to clean weapons. This is usually drop applied and cleaned with a cloth or cotton swab. There is also the potential for contact with lead dust during this operation.</p>	5	2x/year 15-30 minutes	<p>PPE: Safety glasses and nitrile gloves.</p> <p>ADM: Wash hands thoroughly after handling weapons and brass to prevent the incidental ingestion of lead.</p>	<p>ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations, personnel exposure in excess of the standard is not expected.</p> <p>Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead.</p> <p><i>* Lead is a recognized reproductive hazard and carcinogen.</i></p> <p><i>*Petroleum distillate is a recognized carcinogen.</i></p>	
<p>Administrative duties: Work-related musculoskeletal disorders (WMSD) (static postures)</p> <p>Personnel work at desks. In general, the desks had hard edges and keyboards and mice were placed on the desktop. A few of the keyboards had gel pads or wrist rests in front of them to help maintain the wrists in the optimal neutral position and prevent a pressure point between the wrists and desk edge.</p>	5	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	<p>WMSD RISK FACTORS. No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough.</p> <p>Gel pads or wrist rests should be employed in front of the keyboards to help maintain a neutral wrist and keep the wrist off of the hard edge of the desk. As chairs are replaced, consideration should be given to purchasing ergonomic chairs with adjustable lumbar support and arm rest height. ErgoGenesis, BodyBilt chairs are an approved GSA source.</p> <p>Personnel should ensure that workstation is set up correctly (example included in attachment (6)) to help prevent WMSD issues from occurring.</p> <p>Any ergonomic-related injury should be reported to the supervisor.</p>	
<p>1. USE THE FOLLOWING CONTROL CODES:</p> <p>ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation</p> <p>DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation</p>					
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>UNCERTAIN – Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized carcinogen.</p>					

**SUMMARY OF MEDICAL SURVEILLANCE RECOMMENDATIONS
LOGISTICS SUPPORT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY
REPORT NUMBER: AL19004
NOVEMBER 2018**

Ref: (a) Medical Surveillance Procedures Manual and Medical Matrix, Edition 12, NMCPHC-TM OM 6260 (<http://www.med.navy.mil/sites/nmcphc/occupational-and-environmental-medicine/oemd/Pages/medical-surveillance-certification.aspx>).

The following table summarizes identified medical surveillance recommendations.

WORKCENTER	WORK PROCESSES	MEDICAL SURVEILLANCE	ESTIMATED # OF PERSONS
Exposure Based Medical Surveillance Recommendations			
LSD-Garrison Mobile Equipment (GME)	Support section-Tire repair	Noise (503)	1 Civilian
	Support section-Vehicle maintenance		11 Civilians
LSD- LSD HQ	Weapons firing/qualification	Noise (503)	9 Marines
LSD-DMO			1 Marine
LSD-Armory			Up to 5 Marines
LSD-Organic Supply			Up to 5 Marines
Occupation Based Medical Exam Recommendations			
LSD-Garrison Supply Operations	Warehouse section-Warehouse receiving-DRMO	Motor Vehicle Operator (706 or 712)	2 Civilians
	Warehouse section-Warehouse receiving	Forklift Operator/Material Handling Equipment (710)	3 Civilians
	Warehouse section-HAZMAT Cell		2 Civilians
LSD-Garrison Mobile Equipment (GME)	Support section-Vehicle maintenance	Forklift Operator/Material Handling Equipment (710)	13 Civilians
	Operation section-Vehicle operators	Motor Vehicle Operator (706 or 712)	11 Civilians

1. Explanation of Medical Surveillance/Certification Recommendations: Recommendation for inclusion in a hazard-based medical surveillance program for employees involved in a given operation is based on the industrial hygienist's judgment, either through observation or knowledge of the process or representative sampling, that these employees will be routinely exposed to workplace concentrations at or above 50% of applicable OSHA standards or action levels established by Navy instruction or Federal regulation. Medical certification is required by specific Navy or Federal directive where a certain degree of physical fitness has been judged as necessary for a component of the job (i.e. respirator use) or the job itself (i.e. forklift operators or security guards). Governing references regarding certifications should be followed. Scheduling of these personnel for examination is to be accomplished through the Occupational Medicine.

2. New Medical Surveillance Requirements: The Supervisor's Medical Surveillance and Certification Exam Referral form (SECNAV 5100.1T) is required to be filled out prior to personnel visiting Occupational Medicine for medical surveillance exams

(https://navalforms.documentservices.dla.mil/formsDir/_SECNAV_5100_1T_10914.pdf).

**NOISE SURVEY WITH HEARING PROTECTION REQUIREMENTS
AND PERSONAL NOISE SAMPLING RESULTS SUMMARY
LOGISTICS SUPPORT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY
REPORT NUMBER: AL19004
NOVEMBER 2018**

1. BUMED NOTICE 6260, 6 April 2018, directs the Navy to follow the Department of Defense Hearing Conservation Program guidance provided in DoD Instruction 6055.12, 3 December 2010. This changed the noise levels for which single and double hearing protection are required, the calculated protection factor or noise reduction rating (NRR) for devices used, and the way in which personal exposure dosimetry data is calculated. Areas requiring hearing protection should be appropriately labeled according to DoD requirements. Personnel should also be trained to subjectively identify “noise hazardous” conditions that may be encountered throughout the command/shop. In general, if personnel must raise their voice or shout to be heard over a noise source by a colleague standing two feet or less away, they are in a noise hazardous condition. Personnel should know to wear single hearing protection whenever such conditions are encountered.

2. The following table identifies spaces, work tasks and equipment that require the use of hearing protection. These measurements were taken at Marine Corps Logistics Base (MCLB) Albany, Logistics Support Division (LSD) during the current or previous industrial hygiene (IH) survey. All personnel working in the area or performing the identified tasks that are exposed to sound pressure levels of **85 dB(A)** and greater must use single hearing protection. Personnel exposed to sound pressure levels of **96 dB(A)** and greater require the use of double hearing protection, as indicated by the word “Double” in the “Level of Hearing Protection Required” column. The hearing protective devices used must meet the requirements of standard to reduce the noise attenuation below 85 dBA.

IDENTIFIED NOISE HAZARD AREA, OPERATIONS AND EQUIPMENT					
SHOP/ WORKCENTER	SPACE	WORK TASK AND/OR CONDITIONS	RANGE OF MEASURED SOUND PRESSURE LEVELS (dBA)	NOISE RADIUS (FT)	HEARING PROTECTION REQUIRED
LSD-Garrison Mobile Equipment (GME)	Vehicle Maintenance - Welding shop	Vehicle Maintenance- Milwaukee 9inch grinder	100	10	Double
		Vehicle Maintenance- Metabo 4.5 inch electric cutting tool	99.5	10	Double
		Vehicle Maintenance- Milwaukee Chop saw	101.3	12	Double
		Vehicle Maintenance- Baldor grinder	98	8	Double
		Vehicle Maintenance- Jet drill press	75	N/A	None

IDENTIFIED NOISE HAZARD AREA, OPERATIONS AND EQUIPMENT					
SHOP/ WORKCENTER	SPACE	WORK TASK AND/OR CONDITIONS	RANGE OF MEASURED SOUND PRESSURE LEVELS (dBA)	NOISE RADIUS (FT)	HEARING PROTECTION REQUIRED
LSD-Garrison Mobile Equipment (GME)	Vehicle Maintenance - Welding shop	Vehicle Maintenance- Milwaukee band saw	93-97	6	Double
	Vehicle Maintenance Bay	Vehicle Maintenance- Pneumatic impact tool	97	6	Double
		Vehicle Maintenance- Die grinder	100	10	Double
		Vehicle Maintenance- Air wrench	92-95	6	Double
		Doosan Forklift	86.8	4	Single
	Vehicle Maintenance- Wash Bay	Akita Cleaning Systems Model 530	91	5	Single
	Vehicle Maintenance-Tire Repair shop	Vehicle Maintenance- Tire Repair-Rim clamp	90-91	5	Single

3. The personal sample results listed below indicated some shops have exposures that exceeded the Navy occupational exposure limit (OEL).

PERSONNEL NOISE SAMPLING RESULTS LSD-Garrison Mobile Equipment (GME)				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
7 Dec 18 ND18021	Vehicle preventative maintenance	85	78	Below the OEL
7 Dec 18 ND18022	Vehicle preventative maintenance	85	75	Below the OEL
7 Dec 18 ND18020	Vehicle maintenance Repair	85	80	Below the OEL
7 Dec 18 ND18020	Vehicle maintenance Repair	85	78	Below the OEL
9 Jan 18 ND18027	Tire Repair	85	82	Below the OEL
30 Mar 17 ALBND17021	Administrative / Issuing tools	85	75	Below the OEL
29 Mar 17 ALBND17020	Motor Vehicle Operations	85	86	Above the OEL
29 Mar 17 ALBND17017	Mobile Equipment Inspections / Quality Control	85	74	Below the OEL
29 Mar 17 ALBND17014	Professional / Administrative	85	77	Below the OEL
29 Mar 17 ALBND17015	Vehicle maintenance / Preventive maintenance	85	74	Below the OEL

**PERSONNEL NOISE SAMPLING RESULTS
LSD-Garrison Mobile Equipment (GME)**

DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
29 Mar 17 ALBND17016	Vehicle Maintenance / Tire Repair	83	85	Below the OEL
29 Mar 17 ALBND17018	Mobile Equipment Inspections / Quality Control	85	71	Below the OEL
29 Mar 17 ALBND17019	Motor Vehicle Operations	85	87	Above the OEL
8 Feb 17 ALBND17013	Professional/ administrative tasks	85	76	Below the OEL
8 Feb 17 ALBND17012	Mobile Equipment Inspections	85	79	Below the OEL
8 Feb 17 ALBND17009	Vehicle maintenance-repair	85	80	Below the OEL
8 Feb 17 ALBND17008	Vehicle maintenance-preventive maintenance	85	75	Below the OEL
8 Feb 17 ALBND17010	Vehicle maintenance-repair	85	82	Below the OEL
8 Feb 17 ALBND17011	Vehicle maintenance-repair	85	82	Below the OEL
8 Feb 17 ALBND17007	Vehicle maintenance-repair	85	79	Below the OEL
8 Feb 17 ALBND17007	Vehicle maintenance-preventive maintenance	85	86	Above the OEL
5 Jan 17 ALBND17006	Vehicle repair-service driver	85	76	Below the OEL
5 Jan 17 ALBND17006	Vehicle maintenance repair	85	79	Below the OEL
5 Jan 17 ALBND17006	Vehicle repair	85	75	Below the OEL
5 Jan 17 ALBND17004	Tire Repair	85	91	Above the OEL
5 Jan 17 ALBND17001	Vehicle preventive maintenance	85	85	At the OEL
5 Jan 17 ALBND17003	Professional and Administrative duties	85	73	Below the OEL
20 Aug 15 ND15064	Support section-Tire repair	85	91.2	Above the OEL

3. At the discretion of Industrial Hygiene, additional noise measurements (sound level surveys) may be obtained in work centers or noise dosimetry (personal monitoring on individuals) performed to resolve compliance issues such as the posting of hazardous noise areas, the adequacy of hearing protection devices already in use, or implementing administrative controls to bring the effective exposure to less than the DoD OEL.

4. The hearing protection devices currently in use (listed below) are capable of attenuating worker noise exposure below the OEL unless otherwise stated. It is recommended that the shop re-emphasize the need for wearing appropriate hearing protection continually when in designated

noise hazard areas and it should be ensured that hearing protection use is strictly enforced throughout the shop. The shop should also consider any means available to minimize or eliminate noise wherever possible in order to reduce potential worker exposures. All noise hazardous areas/equipment should remain labeled with appropriate noise hazard stickers/signs. Should tasks change such that worker noise exposures are affected, notify Industrial Hygiene so that another assessment can be conducted.

Hearing protection in use:

- 3M Classic Earplugs Uncorded (*NRR 29dB, adjusted NRR 11dB*)
- 3M Ultrafit Earplugs (*NRR 25dB, adjusted NRR 9dB*)
- Tasco Tri-Fit silicone earplugs (*NRR 25dB, adjusted NRR 9dB*)
- Howard Leight Thunder 29 earmuffs (*NRR 29dB, adjusted NRR 11dB*)
- 3M Peltor Optime 95 earmuffs (*NRR 21, adjusted NRR 7dB*)

5. The original sample results discussed in this attachment are on file with the Industrial Hygiene office. The worker has been notified of their sample results and the results have been recorded in their individual medical record. At this time there are no additional recommendations to be made.

6. The original sample results discussed in this attachment are on file with the Industrial Hygiene office. The workers have been notified of their sample results and the results have been recorded in their individual medical records. At this time there are no additional recommendations to be made.

**UPDATED EXPOSURE MONITORING PLAN
LOGISTICS SUPPORT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY
REPORT NUMBER: AL19003
NOVEMBER 2018**

COMMAND: MCLB Albany UIC: N67004	P.O.C: See below	SURVEY PERIOD: 2018 BY IHO: Bryan S. Arwood ASSIGNED TO IHT: WILLIAMS			
EXPOSURE MONITORING PLAN					
OPERATION AND STRESSOR TO BE MONITORED	NUMBER OF SAMPLES	I METHOD	II AREA	III FREQ	IV MAN-HOURS
LSD-Garrison Mobile Equipment (GME) Noise-Noise Dosimetry P.O.C: Mr. Mel Scoggins 639-5605 1. Tire repair operations. 2. Motor Vehicle Driver (from the Operations Section). Rationale: B Priority: 2	2 (each)	DR	HZ	2	8
Action. Samples for the same area should be collected on non-consecutive days.					
LSD-Garrison Mobile Equipment (GME) Sound Level Measurements P.O.C: Mr. Mel Scoggins 639-5605 Rationale: A Priority: 1	Up to 5	DR	HZ	2	2.5
Action: Capture SLM on: Coats Heavy Duty CHD-9551 Tire press, Honda GXV 160 Enerpac Tire Press, Oil Filter Crusher TC-16, Akita Heated Sprayer, Coats Rim Clamp 5060A. Review current noise hazard listing and compare with aforementioned noise producing equipment—capture any new items added since last survey.					
Monitoring Plan Completion Reviewed By:				TOTAL HOURS:	10.5
I Method of Measurement	II Area	III Frequency	IV Man-hours (Type/Number of Units/Hours)		
DR--DIRECT READING INSTRUMENT IT ---INDICATOR TUBE F ---- FILTER PD --PERSONAL DOSIMETER AT --ADSORPTION TUBE (CHARCOAL, SILICA GEL, ETC.) W ---WIPE SAMPLE B ----BULK	BZ – BREATHING ZONE HZ – HEARING ZONE GA – GENERAL AREA SZ – SOURCE ZONE O - OTHER (SPECIFY)	1 - 1X/YEAR 2 - 2X/YEAR 3 - 3X/YEAR 4 - 4X/YEAR 5 - 1X/2 YEARS 6 - 1 X/4 YEARS 7 - 12X/YEAR	AIR: Full Shift for each area: Up to 3 9 STEL: Up to 3 samples 1.5 HEAT STRESS: Full Shift 8 NOISE DOSIMETRY: Full Shift: Up to 5 9 NOISE SLM: All Sources: Up to 5 2.5 VENTILATION: All Hoods, Tanks, or Exhausts: Up to 5 3.5 VENTILATION: Air Changes: Up to 3 2.5 VENTILATION: Each Walk-In Booth 2.5 VENTILATION: Operating Rooms: Each survey: 6 rooms (10 air supply/ 9 exhaust units) 18		

Sample Rationale:

- A:** Fulfill regulatory sampling requirements.
- B:** Collect sufficient data to allow statistically valid exposure assessments.
- C:** Track workplace exposures to determine trends.
- D:** Validate professional judgments of unchanged exposure assessments.

Priority Category:

Priority 1: Needed to fulfill regulatory/instructional requirements (Federal, Navy, BUMED, etc).

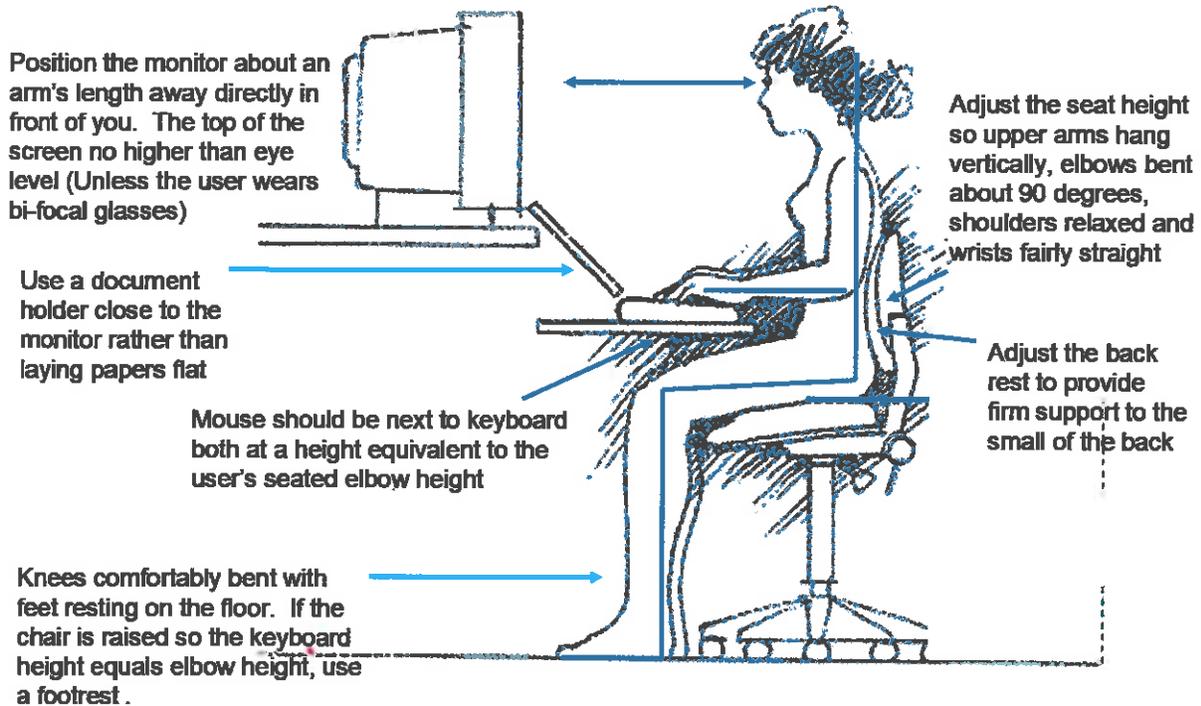
Priority 2: Noise dosimetry and non-regulatory personal breathing zone sampling.

Priority 3: Other sampling needed in order to provide a more accurate or statistically valid exposure assessment.

Priority 4: Needed to validate professional judgments and/or to refresh existing data

Regardless of the **Priority** assigned, exposure monitoring is an essential part of the Industrial Hygiene Program for the command. Command and employee support for the sampling process is important. It is requested that every effort be given to cooperating with the personnel assigned to perform the exposure monitoring. Cooperation by both workers and supervisory personnel will expedite the sampling and minimize undue interference with work center operations.

Neutral Posture for Computer Use



TIME TO TAKE A COMPUTER BREAK

For every 20 minutes of computer use,
look at an object 20 feet away for
20 seconds. This reduces eyestrain.

Move your eyes side to side and top to bottom. This helps moisten your eyes and reduces eyestrain.

Cup your eyes with your hands and close your eyes. Do not put any direct pressure on your eyes. This relaxes your face and moistens your eyes.

Rotate your ankles. This promotes blood circulation in your legs.

While seated, elongate your back by pretending there is a cable attached to your head that is slowly pulling upwards. This will promote good posture and relieve some low back pain.

Slowly pull your arms back as far as you can, trying to touch your shoulder blades together. This will reduce upper back stress.

Close your eyes and gradually lower your head. This relaxes your eyes and neck.

Extend your arms and fingers and rotate. This reduces stress on the upper extremities.

With your arms at your sides, shake your fingers. This relaxes your arms, hands and fingers.

Shrug your shoulders. This eliminates stress from the shoulders and upper back.

Tip: Taking 20 second micro-breaks throughout the day to refocus your eyes will reduce fatigue at the end of the day. 20/20 rule: for every 20 minutes of work, rest the eyes 20 seconds.

CUSTOMER SATISFACTION SURVEY

Industrial Hygiene Division
Naval Branch Health Clinic, Albany

Command: _____ Date: _____

Please rate this survey and report by indicating the numbers below that reflect your level of satisfaction:

	Level of Satisfaction				
	Low				High
	1	2	3	4	5
1. Coordination and/or response to request					
2. Courtesy and professionalism of IH personnel					
3. IH personnel's ability to communicate clearly and openly					
4. Clarity of Report					
5. Usefulness of Report					
6. Exposure Monitoring (if applicable)					
7. Timeliness of Report					

7. How can we improve the services we are providing?
8. What other services would you like Industrial Hygiene Services to provide?
9. Additional Comments (add a separate sheet if necessary):

Name: _____ Position: _____ Shop/Codes: _____

PLEASE RETURN THIS SURVEY TO:

Head, Industrial Hygiene Division
Naval Branch Health Clinic, Albany
bryan.s.arwood.civ@mail.mil