

ENVIRONMENTAL HEALTH AND SAFETY

Case Western Reserve University, Department of Environmental Health and Safety
Annual Report 2019-2020

*Annual Report
2019-2020*

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Mission Statement

Case Western Reserve University
Department of Environmental Health and Safety

We protect the Environment and the university by acting in a regulatory responsible manner
that both respects personnel and the research objectives of the community

We protect the Health and Safety of the CWRU community by providing the support and
knowledge required to maintain a healthy and safe workplace

Notable Accomplishments 2019-2020

ACCOMPLISHMENTS

Completed full inventory and roll out of lockout tag out on campus
Began verification of full cataloging of all lab spaces on campus
Enhanced Integrity of EHS Training Database
Enhanced Training Notification Program
Continued Policy Review of All EHS Documents and Policies

PROGRAM CHANGES:

Replaced Fire position
Ended Sanipak Medical Waste program
Moved all course to online in response to COVID19

AGENCY INSPECTIONS

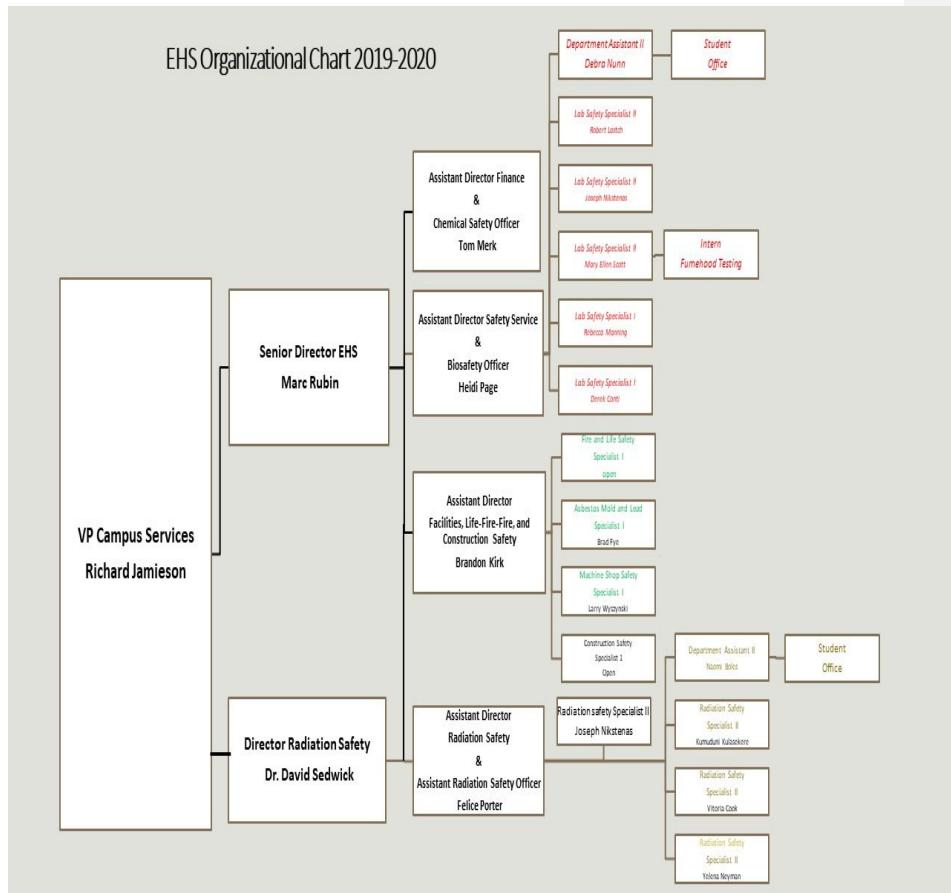
Cleveland Department of Health Quarterly: No issues (This program is now canceled)
CDC BSL3/ABSL3: No Issues
NEORSD Mercury Program: No Issues (Decommissioned old dental space and commission new)
BWC Machine Shop Inspection: Large Punch list generated
BUSTER-Underground Storage Tank inspection: No issues
OSHA: Reportable Amputation. Fined for lack of machine specific procedures
OSHA two phone inspections with no resulting physical inspection

OBJECTIVES 2020-2021

EHS Objectives: Each year EHS strives to develop a portion of the many programs for which it has responsibility. The follow global objectives are set for the calendar year 2020-2021

- 1) Maintain Regulatory Compliance
- 2) Enhance Training enforcement
- 3) Continue Summary Reporting to PIs, Chairs, and Deans
- 4) Continue Laboratory Inspection program
- 5) Design for implementation electronic CHP/ECP and Chemical Inventory documents
- 6) Implement Mechanical Space Inspections
- 7) Hire Construction Safety Specialist-Canceled due to COVID Budget Cuts

Organizational Chart 2019-2020



DEPARTMENT DESCRIPTION

The Department of Environmental Health and Safety is charged with maintaining a safe work environmental for more than 6,000 employees and 10,000 undergraduate and graduate students who work and/or live in over 100 buildings at CWRU and at 5 other major Northeastern Ohio research locations. In addition to the Ohio-based research, EHS shares safety responsibility for its personnel in locations worldwide.

EHS works to balance federal, state and local safety regulations with the requirements of research. At times, these tasks appear to conflict with each other and require innovation to achieve the needs of both a safe work environment and productive research community. EHS's customer service approach distinguishes its activities from the strict regulator approaches of yesteryear.

Dissemination of safety information is accomplished through cooperative interactions with its customers (faculty, staff and students) through, formal training, consultation, and safety document creation and maintenance, inspection and oversight activities that are encompassed in the activities of the EHS department. Audit through inspection acts as the feedback mechanism used to measure the level of compliance and the level of community understanding achieved through departmental education and consult efforts.

In a complex environment, however, accidents sometimes occur. In these cases, EHS is called upon for emergency response, mitigation of hazardous situations and forward planning where possible to avoid similar future incidents. Departmental services in and following emergencies include in house hazmat response as well as planning with external agencies for larger emergency situations. EHS works closely with internal emergency management, plant, police and security departments as well as with external agencies to generate cooperative plans and responses. Part of this effort with external agencies is directed toward familiarizing governmental regulatory and response organizations with our institutional resources and response workers. This effort provides needed groundwork for synergistic responses during emergencies.

EHS is staffed by three main sub-groups that encompass Biological/Chemical safety, Facilities/Fire/Life Safety/Construction, and Radiation safety concerns.

Biological Safety

The Biosafety program at CWRU employs a multifaceted approach to ensure safe and responsible laboratory practices while maintaining compliance with the various Regulatory agencies to whom we are responsible. The program consists of the following areas:

Maintain compliance with NIH, OSHA, CDC, USDA, DOT, FAA, DHS and DEA regulations as they pertain to training, handling, transporting, storage, and shipping biological materials and DEA Controlled Substances.

Work with laboratories to prepare for USDA and CDC permitting inspections

Review of Exposure Control Plans, IBC protocols and IACUC protocols for the use of biohazardous materials and to ensure proper controls and procedures are in place to protect researchers as well as the greater University community.

Educate investigators on the biological hazards in their laboratories, current Best Practices, post exposure measures and changing Regulations.

Collaborate with University Health Services to provide a robust Occupation Health Monitoring program including recommended prophylaxis and post-exposure treatments based on specific biohazards.

Provide personal consultations on best work practices, engineering controls and personal protective equipment based on specific biological hazards.

Ensure proper function of and decommissioning of the High Containment (BSL-3) Laboratories on Campus.

Maintain an up-to-date inventory of the Biohazardous Materials on the CWRU campus.

Provide specific training and work practice recommendations to the Animal Resource Center staff who will come in contact with contaminated materials.

Develop written policies on the handling of specific Biohazardous materials

Goals achieved

- ECP has been converted to an electronic format for Onsite but needs implementation
- Established clear institutional guidelines on 'enhanced biosafety level 2 containment'
- Prepared safety guidance for SARS2/COVID19 research
- Began assessing, for the first time ever, biomedical laboratories for compliance with the CDC recommendations for BSL2 labs.
- Decommissioning, renovation and recommissioning of the high containment BSL3 laboratory

Goals for 20/21

- Review and update online annual training
- Complete assessments of biomedical laboratories for compliance with the CDC BSL2 checklist
- Prepare the high containment laboratory space in the vivarium for SARS2 experiments
-

Inspection-Laboratory

A physical inventory of all SOM buildings is being conducted to obtain an accurate room count and type count. This is the basis of the inspection schedule for 2020-2021.

Only laboratories are being inspected and documented. EHS looks at all rooms but does not formally document non-laboratory inspection through the laboratory inspection program unless there is an egregious issue noted. These non-lab rooms are covered in other inspections such as mechanical space inspections and fire inspections.

In addition to the standard EHS inspection checklist, EHS specialists will be evaluating SOM biomedical laboratories against the Centers for Disease Control and Prevention checklist for Biosafety Level 2 Containment Laboratories. It is believed this is a better measure of the safety and containment needs of these laboratories.

Goals achieved

- All laboratory containing buildings on the Case Quad have been inventoried for room type and location. EHS now has an accurate count of actual laboratory and work space, as well as total number of rooms.
- A thorough assessment of these spaces was completed and inspection reports written for laboratory and work spaces.
- Began assessing biomedical laboratories for compliance with the CDC recommendations for BSL2 labs.

Goals for 20/21

- Update room and location information for SOM buildings in the Onsite database. Differentiate between laboratory and non-laboratory spaces to establish an accurate count of SOM laboratories.
- Complete assessments of biomedical laboratories for compliance with the CDC BSL2 checklist in addition to the standard EHS checklist.

Infectious Waste Program

Infectious waste transport is regulated by DOT as a Hazardous Material. Infectious Waste collection, treatment, and disposal is regulated by local and state regulations. Custodial Building Service Workers (BSWs) collect the bulk of infectious waste. A special group of BSW's are trained to collect and remove these waste. Regular BSW's receive training in Infectious waste collection and removal as well as the OSHA blood borne pathogens standard. CWRU registers with the State of Ohio as a Generator, Transporter or Treatment, Storage & Disposal, (TSDF) of infectious waste. The CWRU infectious waste permit allows the University to Generate, Store, Treat and Transport infectious Waste.

CWRUs current infectious waste disposal vendor is MedWaste Ohio. MedWaste Ohio transports containers of collected infectious waste to their facility where they are combined with other waste and transferred to Daniels Incineration in Michigan for final disposal.

The Infectious Waste Areas are inspected once every 7 days.

A copy of the Facility Management Plan which includes; Copies of the Ohio Infectious Waste Regulations, Spill Procedure, Contingency Plan, Infectious Waste Permit and Emergency Phone Numbers. The Facility management Plan is kept in the EHS offices.

Chemical Safety

CHP Program

The Chemical Hygiene Plan is a required OSHA document that describes the specifics of requirements for safety in each laboratory. This document is required by law to be specific to the work conducted in each laboratory. The contents of CHP must be available to all workers in each laboratory and training must be held with each worker upon starting work in the laboratory or upon a change in the plan.

The CHP must be reviewed on an annual basis or upon a change in the plan. Changes to the plan must be communicated immediately to all laboratory workers. Documentation of the laboratory specific training must be kept along with an outline of the training. Typically this is accomplished with a sign in sheet acknowledging the training and an outline of the training.

EHS is moving to an electronic system to track and store as well as share the CHP. Historically the CHP has been paper based. As part of this move, an in-depth review of the individual components within the Chemical Hygiene Plan is being conducted by EHS to assure the suitability of the electronic template.

Chemical Fume Hood Program

In compliance with OSHA's Laboratory standard (29 CFR 1910.1450), fume hoods must be maintained and function properly when used, EHS annually tests existing hoods and provides ASHRAE testing for new fume hoods through our Chemical Hood Program. Additionally, the program offers hands-on guidance for correct fume hood use by demonstrating the proper sash operating level, making sure that the air gauge indicates that the airflow is within the required range and guidance for correct placement of items into the workspace. This process ensures adequate airflow, containment, and energy savings. Through testing and hood inspection, EHS works with Facilities ensuring that fume hoods and other protective ventilation equipment are functioning correctly.

Commented [NJA1]: What is that? Spell out first tie

CWRU has close to 700 fume hoods in the research facilities across campus, all of which were tested as scheduled, including the ASHRAE certification for new hoods until school closure during the 2019-2020 year.

Commented [NJA2]: With whom?

Fume hoods are often the primary control device for protecting laboratory workers and are energy hungry. EHS, along with many other universities, has implemented "Shut the Sash" programs which have been effective in lowering energy costs and increasing safety. EHS and the Facilities continue to work together in using these innovations in fume hood technology and design work to reduce airflow through fume hoods while maintaining safety.

Commented [NJA3]: Not sure if this adds value? Did you install these types of new hoods? How many?

From 2015 until now, EHS has provided a detailed report that details the status of a fume hood and associated system. This generates valuable data for Facilities on needed repairs and systems deficiencies.

Hazardous Materials Shipping Program

The Department of Transportation (DOT) and the International Air Transport Association (IATA) established the regulations for the shipping of hazardous materials or dangerous goods. To comply with the regulations, EHS provides in-class hazardous materials shipper's training so that Case employees are certified to ship hazardous materials. A certificate is provided, which is valid for two years. Our training covers classification, packaging, labeling, and preparing shipping documents for domestic and international shipments. Additionally, EHS offers online training for shippers who ship materials not regulated by DOT or IATA on dry ice.

Our program also coordinates with the University's Compliance program. Before shipping abroad, the shipper must determine if a Material Transfer Agreement (MTA) is required. As needed, EHS will match the requested shipment with the signed MTA and determine if the shipment is international. Visual compliance is a web-based tool that EHS currently uses to conduct a Restricted Party and Specially Designated Nationals Screening. EHS analyzes the shipment in light of the export regulations and determines whether the shipment can proceed immediately, or whether federal pre-authorization is required. As needed, permits and customs protocols are obtained, and shipping documents are prepared using FedEx as the CWRU approved operator, although other operators are used if required.

Upgrades planned for the program are to develop snapshots of shipping procedures for materials most often shipped, including exempt materials, excepted materials, de-minimis quantities, and guidelines on materials transported by hand.

Ergonomics program:

The field of ergonomics is defined as an applied science concerned with the design and arrangement of work environments in order to mitigate the possibility of hurt in the workplace. The goal of ergonomics here on campus focuses the implementation of administrative and engineering controls to prevent physical discomfort for Case Western Reserve University faculty, staff, and students.

A new ergonomics assessment protocol focusing primarily on how risk factors can be avoided in the workplace has been established. Risk factors are consistent modes of work that lead to strain. These can include: repetition, static work postures, and over extension. The current ergonomics assessment includes a risk factor assessment, which is completed by the CWRU member in order to gauge specific risk factors associated with the employee's work environment. In addition, the risk factor assessment offers the requester an opportunity to be hands-on in documenting their pains and discomforts.

Research is completed to determine what recommendations are required. Recommendations can include office supplies or equipment, desk stretches, or desk organization modifications. A post-assessment summary provides suggestions to improve the ergonomics of the workstation, follow-up scheduling, and goals to complete before the next follow-up. The requester's supervisor receives the post-assessment, along with a detailed email explaining why each item is recommended. EHS recommends every employee consult their personal physician about reported issues.

Due to the repetitious nature of various positions on campus, aches and pains can arise gradually from everyday work practices. The ergonomics assessment program is a fundamental resource available to the CWRU community, serving as an educational tool as well as a standard for identifying potential work risks.

Goals accomplished 2019-2020

Updated previous Faculty Departure Appendix C: Wet Research Lab/Hazardous Materials/Biological Samples
Created & Organized [excel spreadsheet of PI's](#) that have left the university or relocated

Created standard general clearance, cold room repair, and laboratory relocation procedures

Completed conference calls with MouseTrapper and Ergotron to obtain discounted pricing on ergonomics products for CWRU faculty and staff

Gave talk on Health Communication & Literacy at the 2020 Social Justice Teach-In

Obtained demo ergonomics products for use during assessments (Mice, keyboards, and spinal chair supports)

Goals for 2020-2021

Create follow-up procedure for clearances to ensure work before [clearance expiration date](#)

Begin certification process for BCPE

Update and organize existing PI tracking spreadsheet

Respiratory protection

EHS works closely with various departments to develop or maintain respiratory protection programs in compliance with current OSHA regulations. An understanding of the hazard, job requirements, and potential exposure is evaluated to ensure that the appropriate regulatory standard is followed. The department provides training, medical evaluations and respirator fit testing for personnel who require respirators during their work. We have also worked closely with various departments to evaluate the risks and potential exposures to employees.

The department continues to provide medical evaluations, training, and fit testing of medical students who are required to wear N95 respirators during their away rotations, typically in the third year. EHS also continues to support the excellent respirator program in place for the Animal Resource Center personnel, including researchers using the BSL3 facilities. The department works closely with researchers and ARC staff to determine the appropriate level of respiratory protection based on a review of potential hazards, job responsibilities, and working conditions. Additional respirator programs have been established in 2020 for the Dental School and University Health Services for protection against potential exposures to COVID 19.

Due to the global pandemic, EHS has indefinitely moved all respirator training to online format. This decision was made to accommodate the predicted, major influx of 400-500 new respirator users that will be entering the OSHA respirator program due to job hazards associated with COVID-19 as well as to maximize social distancing. Procedural changes were also made to the fit testing protocol in effort to eliminate potential exposures from fit-testing equipment.

EHS worked closely with Procurement and Distribution Services to convert the university from 3M N95 respirators to Moldex N95 respirators. This change was necessary to ensure that the university would be able to maintain a supply of N95 respirators as hospitals and first responders were prioritized over research institutions for distribution of 3M branded respirators. The university has been able to maintain a sufficient supply of N95 respirators since the conversion was made.

Goals accomplished 2019-2020:

- Accommodate the large influx of respirator users
- Changed certification process to ensure medical clearance, training, and fit testing are done in chronological order.
- Move all training to Canvas to allow more time to fit test individuals and maintain social distancing
- Switch from 3M N95 Respirators to Moldex N95 respirators
- Procedural changes to fit-testing protocol to aide in sanitary piece of mind
- Improved record keeping by scanning all fit test forms and filing them by date on U-Drive

Goals for 2020-2021

- Convert to a better functioning online training platform
- Eliminate delays in receiving medical clearances by working with UHS to find a solution
- Train additional EHS staff to perform fit testing

Hazardous Chemical Waste

There are over 1500 locations around campus that generate chemical wastes.

Chemical waste collection can be subdivided into several types of chemical waste, "Hazardous Waste", Hazardous Chemical Wastes, Non-Hazardous Chemical Wastes, Fluorescent lamps, used oil and Polychlorinated Biphenyl, (PCB), wastes.

Government agencies that oversee Chemical Wastes for disposal and removal include; OSHA, EPA, TSCA, ODH, DOT, IATA, FAA, EAR, ITAR, DHS, DEA, DOD, NFPA, USCG, as well as local and state agencies.

Chemical wastes are collected Research Laboratories, Plant Services, Custodial Services, Contractor Generated Wastes, Hospital Clinical Laboratories and Incubator Companies on Campus. Turnaround time is to have chemicals removed within one week of the request.

The Bi-annual Generators reports was submitted to Ohio EPA before the February 29, 2020 deadline for 2019. The next report will be due February 29, 2022 for the 2021 year.

Campus personnel are introduced to chemical waste disposal systems as a part of general safety programs such as Laboratory Safety, Biosafety and Hazard Communication.

Custodial Services receives annual training on dealing with chemical wastes.

Chemical Waste Disposal consists of the following sequence, the lab requests chemical waste removal and a Vendor is used to collect and pack chemical wastes for shipment within one week of the request.

Special projects will happen when a lab leaves, an area undergoes renovation or an unusual event occurs. Nine special projects were initiated and completed this year.

Goals for 2019 were met with chemical wastes being collected and removed from areas within one week of notification to EHS. Chemical wastes were packed and shipped off campus about every 6 weeks.

Goals for 2020 are to continue chemical waste collection and removal in a timely manner.

It is hoped that chemical waste requests can be submitted electronically using the EHSA system in the near future.

Facilities/Fire/Construction Safety Programs

Facilities Safety

The facilities safety program at CWRU is responsible for the health and safety of all plant and maintenance staff members. The facility safety program must ensure those members are in compliance with local, state, and federal health and safety standards while performing their daily work tasks. This program includes:

- Providing OSHA, EPA, DOT, and other training as required by law. This includes right to know, confined space entry, drivers training, lock-out tag-out, fall protection, injury prevention, and many other topics annually.
- Provides lift truck and powered industrial equipment training.
- Provide training in hazardous materials handling such as asbestos, lead, mold, and chemical waste.
- Conducts inspection and remediation for lead, asbestos, and mold.
- Conducts Job Safety Analysis of all facilities worker functions.
- Providing in-the-field assistance to all maintenance personnel regularly as well as when a safety concern arises.
- Conducts accident and injury investigations and performs root cause analysis to prevent reoccurrence of the incident.
- Provide respiratory and hearing protection training and equipment selection.
- Supervises the entry of facilities personnel into confined spaces.

Goals Achieved Fiscal Year 2019

- Retrained the affected Maintenance and Recycle employees in tow motors and scissor lifts.
- Completed a massive, 14 month long, Lock-Out Tag-Out project. EHS has gathered data, developed, printed, laminated, approved, and posted over 2,800 Lock-Out Tag-Out procedures across Case Western Reserve University's campus as well as the University Farm.
- Conducted specific training for all authorized employees. This consisted of a 90 minute classroom session and a 90 minutes field session. In the field - each authorized employee demonstrated competence on our Lock-Out Tag-Out procedures.
- Completed the annual hearing conservation audiograms for the affected 150 employees.
- Successfully closed out our OSHA abatement agreement.

Goals for Fiscal Year 2020

- Complete Maintenance Zone chemical inventories.
- Return to in-person safety training post-Covid.
- Conduct Mock OSHA audits for all maintenance zones.
- Review the LOTO procedures created in 2019.
- Continue to provide in-the-field consultation to all maintenance personnel regularly as well as when a safety concern arises.

Goals for Fiscal Year 2018

- Complete Zone 1 and Zone 4 chemical inventories.
- Conduct Mock OSHA audits for all maintenance zones.
- Conduct a Fall Hazard Analysis of the roof systems of all buildings on the main quad.
- Continue to provide in-the-field consultation to all maintenance personnel regularly as well as when a safety concern arises.

Fire Safety

The Fire and Life Safety Program at CWRU is tasked with the following:

- Hot Work Inspections: brazing, cutting, grinding, soldering, torch applied roofing, welding, etc.)
- Red Tag: anytime fire protection equipment is taken out of services for any reason a red tag permit must first be issued by the Fire and Life Safety Specialist
- Fire Safety Training: All Resident Advisors go through a fire prevention safety course
- Fire Extinguisher Training: Training is available free of charge for any university employee. All maintenance workers are required to attend once per year
- Fire Drills: Four fire drills occur yearly for all resident halls and Greek Life houses. During the summer semester a variety of campus academic buildings will also have a fire drill
- Cleary Act Reporting: The Fire and Life Safety Specialist is responsible for all Cleary reporting on the CWRU Campus in the fields of arson and fires that occur in resident areas. The Cleary Act requires all colleges and universities that participate in federal financial aid programs to keep and disclose information about crime and safety practices on and near their respective campuses
- Fire Inspections: All resident halls and Greek Life houses common areas are inspected two times per year for fire code violations by the Fire and Life Safety Specialist. All other University buildings are inspected on rotation. Any time a member from FM Global, the University insurer carrier, or a member of the Fire Department wishes to inspect a building the Fire and Life Safety Specialist will accompany them
- Special Events: Any time a special event is planned on campus that requires a building to change its everyday floor layout/occupancy, when outdoor tents are being used, or hazardous materials (propane for grilling/heat, fireworks, etc.), the Fire and Life Safety Specialist is involved in the planning process

Goals Achieved Fiscal Year 2019

- Expanded on the University's furniture policy. We must follow the R-2 classification of the fire code. New furniture must be "Cal 133" rated furniture throughout all CWRU owned residence halls if the building does not have a sprinkler system. This rating also applies to balconies and porches. The Ohio Fire code does give exceptions to the rule. "CAL 117" rating can be used in areas where CWRU has automatic sprinkler systems with written approval from the city of Cleveland fire division and our insurer FM Global.

- Conducted the required 4 annual (2 per-semester) fire drills in the residence halls.
- Provided fire safety coverage to a variety of special events on campus, ranging from performances at the Veale Center to special events such as the Chinese New Year Fireworks.
- Inspected all Greek Life Residence's for Fire and Life Safety violations.

Goals For Fiscal Year 2020

- Conduct the bi-yearly campus walk through with FM Global.
- Hire the new Fire and Life Safety Specialist.
- Update and publish the annual Fire report.
- Review and update the emergency egress routes and gathering points for all residence halls.
- Conduct Fire and Life safety inspections for in the designated maintenance shops.

Construction Safety

The construction safety program at CWRU focuses on keeping all employees safe while construction projects occur on campus. The principal responsibility of this program is to monitor construction sites and contractors to ensure compliance with state and federal regulations pertaining to health and safety standards in the workplace. This objective is achieved by using the following disciplines:

- Provide regulatory support and assistance for the control of hazards on the job site that might affect the CWRU community.
- Provide the removal, to the extent possible, of hazards prior to handing over job sites to contractors except as detailed in contract agreements.
- Ensure workers from both the host and contract employer are informed about the hazards present at the worksite and the hazards that work of the contract employer may create on site.
- Organize, schedule, and perform required right-to-know safety training for all contractors prior to working on campus.
- Ensure all contract employers coordinate on work planning and scheduling to identify and resolve any time issues that could impact safety or health.
- Provide support to the project by maintaining a visible presence in the field and to have continued availability to assist the project manager with safety related issues.
- Communicate and assist the project managers to ensure all safety expectations are understood and met.
- Regularly review and be familiar with all applicable legislation and standards to ensure compliance.
- Participate in the investigation of incidents on campus to determine root cause, and to put effective actions in place to help ensure repeated incidents do not occur.

Goals achieved fiscal year 2019:

- Safely oversaw the removal of the underground storage tank that was delaying the Nash walkway project.
- Managed all environmental issues in the renovation of the Fribley Dining Hall project.
- Conducted safety oversight on the summer re-roofing projects across campus.
- Conducted Max Occupancy Studies for the Greek Life Houses on Campus.
- Managed over 100 Asbestos, Lead, and Mold projects.

Goals for 2020-2021:

- Ensure the best safety and health conditions possible on the jobsite.
- Organize, schedule, and perform safety oversight for the roofing projects in the summer of 2021.
- Continue to strive for 0 lost-time injuries.
- Provide expertise and support to the 125 asbestos, lead, and mold projects throughout the year.

**Laboratory Safety Committee Audits
Safety Services Laboratory Programs
2019-2020**

LSC Audits were not conducted for this period due to the COVID-19 Shutdown of Campus and resulting remote operations challenges. Audits will resume for the 2020-2021 Period in the Spring of 2021.

2019-2020 METRICS

EHS METRIC 2019-2020

COMMITTEE AUDITS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Radiation Safety Committee Audits	10	10	10	23	53
Laboratory Safety Committee Audits	0	0	0	0	0
IACUC Audits - New Protocols	37	34	10	47	108
IACUC Audits - Continuing reviews	58	47	22	57	154
IACUC Audits - Addenda	15	8	13	8	42
IBC Audits	25	24	16	21	86

CHP/ECP SUBMITTED					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
CHP	26	5	127	0	153
ECP	28	5	20	0	53
TOTAL	54	10	147	0	204

ORIENTATION					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
New Employees	167	154	0	5	322
New Faculty	162	50	0	4	216
Total	329	204	0	9	538

ANESTHETIC GASES/VAPORS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Isoflurane	0	0	0	0	0

TRAINING					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Laboratory Safety/Regulated Chemicals	814	401	462	179	1856
Hazard Communication	209	238	136	47	624
ARC Safety Training	34	0	0	0	34
Formaldehyde	57	29	29	10	125
Biohazard Training with Bloodborne Pathogens	723	409	418	153	1708
Respirator	45	32	114	60	281
Vehicle Safety	43	53	44	1	139
Fire Safety/Dry	46	51	0	0	46
Fire Extinguisher/Fire Safety	76	101	4	17	197
Plant Economy/Bio/Risk Hearing Conservation, etc.)	57	242	165	0	504
SLS	0	0	0	0	0
DOT/ATA Shipping	26	63	5	73	159
Contractor	30	16	18	24	88
Seizal Classes	0	0	0	0	0
Scissor Lift	15	0	0	15	15
Pork Lift	36	0	0	36	36
Other	0	0	0	0	0
TOTAL	2200	1652	1380	531	5752
	2682	3070	5752		

ROOM INSPECTIONS (Inspections run from January to December)

Building Name	July-September	October-December	January-March	April-June	Total
Art Studio				0	0
A.W. Smith	33	6	0	39	
Bingham	25		0	25	
Bicenterprise (UCRC I, University West)				0	0
Bishop			0	0	
Bolwell			0	0	
Biomedical Research Bldg.			0	0	
Cleveland Clinic Foundation			0	0	
Clapp			0	0	
Coroner's Office (UCRC II)			0	0	
DeGrace (Biology)		29	0	29	
Dental			0	0	
Farm			0	0	
Glennan	66	2	0	68	
Kent Hale Smith	55	1	0	56	
Lerner UH			0	0	
Lowman			0	0	
MacDonald			0	0	
MetroHealth			0	0	
Millis		101	0	101	
NASA			0	0	
Nursing			0	0	
Olin			0	0	
Pathology			0	0	
RAD Waste Facility			0	0	
RB&C			0	0	
Research Tower			7	0	7
Robbins (MED East)			0	0	
Rockefeller	22		0	22	
Sears Building			0	0	
Sears Tower			0	0	
Service Bldg.			0	0	
Simulation Center (Mt. Sinai)			0	0	
Strosacker			0	0	
VA Hospital			0	0	
Walker			0	0	
Wearn			0	0	
West Quad (Mt. Sinai) (CCMSB)			0	0	
White	3	5	0	8	
Wickenden	2		0	2	
Wolkstein Research Bldg.			0	0	
Wood			0	0	
TOTAL	206	144	7	0	357

CRANE INSPECTIONS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
AW Smith	0	0	0	1	1
BCI Inspector	0	0	0	1	1
CGI	0	0	0	1	1
Wirtz	0	0	0	1	1
Westgate Smith	0	0	0	1	1
Bingham	0	0	0	0	0
Total	0	0	0	2	2

RESPIRATOR USE (From FileMaster)					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Pass	52	52	332	395	781
Not Required	49	50	334	360	763
Total On Person	49	50	334	360	763
Fit Test	0	0	0	0	0
Total	0	0	0	0	0

BIOHAZARD REPORTS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
None	56	52	40	41	189
Reported	12	0	0	0	12
Total	68	52	40	41	201

ASHRAE TEST					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Test	0	0	0	0	0
Restricted	0	0	0	0	0
Fault	0	0	0	0	0
Total	0	0	0	0	0

FUME VELOCITY HOOD TESTING					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Pass	340	52	394	92	825
Rejected	0	0	0	0	0
Failed	34	0	0	0	34
Total	374	52	394	92	849

CLEARANCES					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Relocation	94	0	78	246	372
Storage	0	0	0	0	0
Disposal	360	360	465	97	882
Retention	0	0	0	0	0
Relocation to Storage	0	0	0	0	0
Termination	0	0	0	0	0
Other	0	0	0	0	0
Returns to Vendor	0	0	0	0	0
Other Return	0	0	0	0	0
Decommission	0	0	0	0	0
Total	239	20	569	353	1360

ERGONOMICS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Initial Assessment	17	0	0	3	20
Follow-ups	0	0	10	3	13
Total	17	0	10	6	33

CHEMICAL PURCHASE APPROVALS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Purchase Approvals	310	0	-	20	330
Total	310	0	-	20	330

HAZARDS MATERIALS SHIPPING					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
DOT/ATA Shipping	0	0	0	0	0
Asbestos/Ceramic (Quarantine)	0	0	0	0	0
Biological Category B	0	0	0	0	0
CGI	0	0	0	0	0
DOT/ATA	33	22	7	6	68
Direct	0	0	0	0	0
Drop	0	0	0	0	0
Infectious ³	33	22	7	6	68
Total	33	22	7	6	68

TYPES OF INJURIES					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Needlestick	0	0	5	0	5
Burn	0	0	0	0	0
Cuts	0	0	3	0	3
Confinement/Restriction	0	0	0	0	0
Electrocution	0	0	0	0	0
Strain/Sprain	13	0	10	0	23
Tool Injury	0	0	0	0	0
Gas Alarm	0	0	0	0	0
Chemical Spillage	0	0	0	0	0
Equipment Alarm	0	0	0	0	0
Floor Repair	0	0	0	0	0
Hand Tool	0	0	0	0	0
Lack Water	0	0	0	0	0
Lock Out	0	0	0	0	0
TAIG	0	0	0	0	0
Total	23	0	20	0	43

REPORTED FIRES					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Building	0	0	0	0	0
Residence/Halls	0	0	0	3	3
Total	0	0	0	3	3

FIRE SAFETY REPORTS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Fire Safety	73	0	20	42	135
SHARP Waste	59	60	20	43	272
Household Garbage	0	0	0	0	0
Private Conditions	0	0	0	0	0
Other	0	0	0	0	0
Spills/Lakes/Chemical/liquids/gas	0	0	0	0	0
Alarms	0	0	0	0	0
Water Leaks	0	0	0	0	0
Gas Alarm	0	0	0	0	0
Electrical Short	0	0	0	0	0
Equipment Alarm	0	0	0	0	0
Floor Drills	0	0	0	0	0
Fire Inspection, Complete/Bldg.	23	0	0	0	23
Total	200	0	33	89	322

ASBESTOS AND LEAD ISSUES					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Abatement	37	20	34	38	109
Surveys	12	10	39	26	67
Permit Issues	0	0	0	0	0
Lead	0	0	2	5	7
Total	51	30	75	69	225

OTHER MONITORING					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Environmental	0	0	0	0	0
Preventative Maintenance Confined Space Shutdowns	25	10	8	35	98
Health Air Quality Studies	0	0	0	0	0
Total	25	10	8	35	98

ENTRANCE CAUTION SIGNS					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
SDS	0	0	0	2	2

HAZARDOUS WASTE 2019-2020

Sites	Bottles Q1	Bottles Q2/Q3	Bottle Q4	Weight Q1	Weight Q2/Q3	Weight Q4
Millis	468	799	413	2724	3082	5602
DOA 990	1129	378	178	5788	5467	12169
WRB	282	146	16	222	250	100
CASC	0	0	45	590	970	0
Total	1879	1323	652	9324	9769	17871
Grand TOTAL			3854		36964 kg	

