

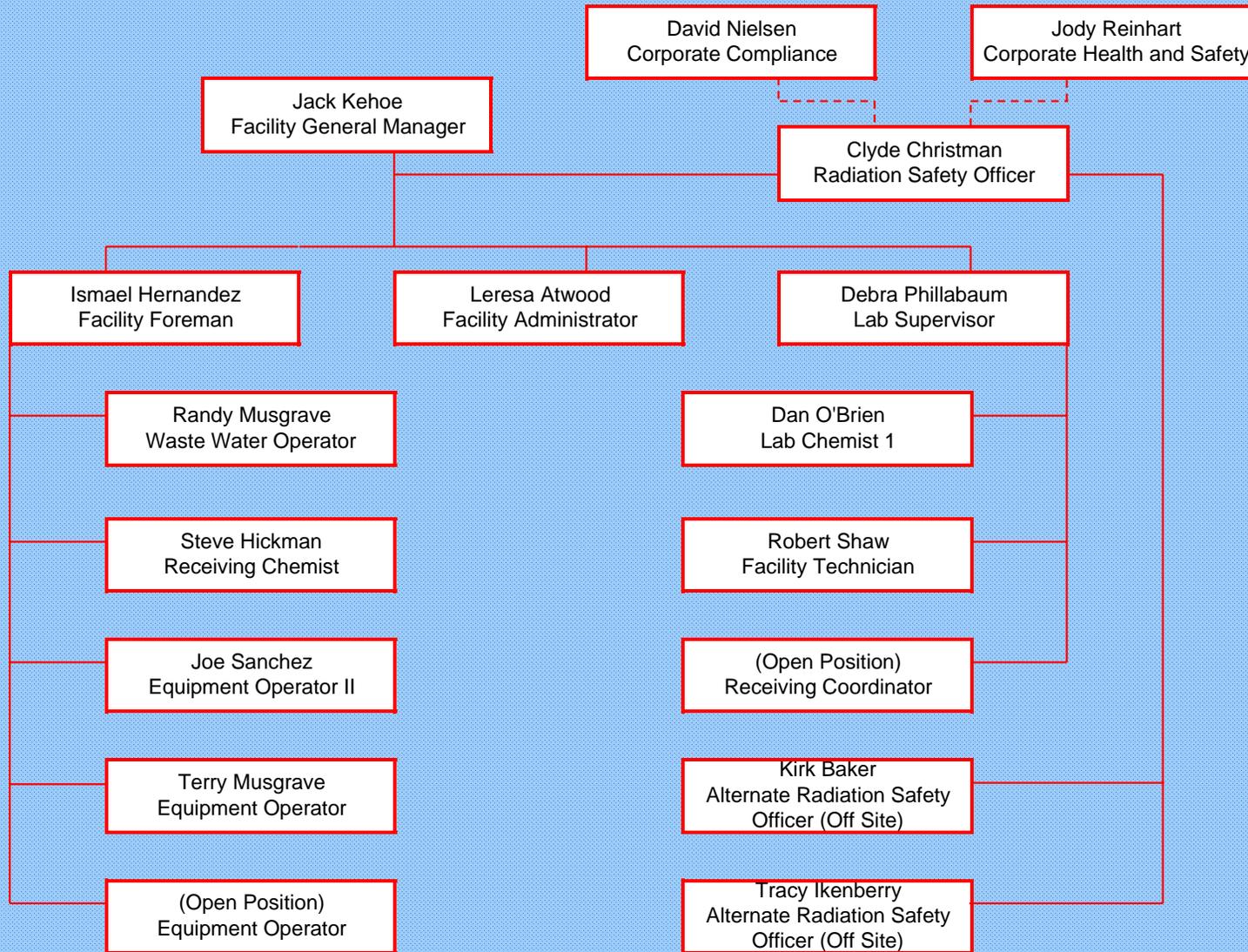
Personnel Training and Experience

CHDT personnel have been conducting Naturally Occurring Radioactive Materials disposal operations since December 2006. All staff members have been trained on the basics of radioactive materials and basic radiation safety. All staff members have been trained in CHDT Operational SOP's. Ongoing training occurs at least annually. Operations staff are trained and experienced in the use of radiation instruments. Staff training in radiation safety is summarized in this document. Most CHDT Operations staff members have more than ten years experience in landfill waste operations and they are expert at safely handling many types of hazardous materials. CHDT Key Personnel have many years of technical education and experience. Staff organization and responsibilities are detailed in SOP 15.RPP.01 Radiation Protection Plan. A current organizational chart is included in this attachment. Resumes of Key Personnel are also included.

Key Personnel

Jack Kehoe, M.S.	Facility General Manager
Clyde Christman	Radiation Safety Officer
Debra Phillabaum	Lab Supervisor
Kirk Baker	Alternate Radiation Safety Officer
Tracy Ikenberry, CHP	Alternate Radiation Safety Officer (Dade Moeller and Associates)

Clean Harbors Deer Trail Organizational Chart May 2010



Resume of:

John H. (Jack) Kehoe, M.S

Facility General Manager, Clean Harbors Deer Trail, LLC

EDUCATION:

M.S. - Environmental Engineering, 1998-Johns Hopkins University, Baltimore, MD

Graduate study Chemical Engineering and Chemistry- Virginia Polytechnic Institute, Blacksburg, VA
1982-1983;

B.S. - Chemistry, 1982 - George Mason University, Fairfax, VA

KNOWLEDGE, SKILLS, ABILITIES:

Encyclopedic knowledge of chemistry; skilled at analytical thinking and systems evaluation; effective at managing personnel to accomplish difficult projects; skilled at the training and development of staff; excellent technical writer; broad background of scientific and engineering knowledge gained from both study and experience; thorough understanding of the political and regulatory process; expert knowledge of Hazardous Waste, Radioactive Waste, Mixed Waste, Wastewater Treatment, Environmental management systems.

PROFESSIONAL EXPERIENCE:

General Manager Deer Trail Landfill, Clean Harbors Deer Trail, LLC, Deer Trail, CO., Dec. 2003-Present

Manage all the operations and staff of a low-level radioactive waste landfill, hazardous waste landfill and treatment facility; implement procedures needed to keep facility operating in a safe and efficient manner; responsible for safety, environmental compliance, and financial performance of the facility.

Operations/Technical Manager- Grassy Mountain Landfill Safety-Kleen Grassy Mountain Facility Clive, Utah: 1999- 2003.

Managed all the operations of a hazardous waste landfill and treatment facility; supervised the operating staff, laboratory staff, and technical staff; implemented procedures needed to keep facility operating in a safe and efficient manner; wrote and successfully obtained four variances from the Land Disposal Restrictions; completely overhauled all waste treatment operations at the facility; substantially reduced the operating costs of the facility; improved the environmental compliance record of the facility.

Operations Manager-NIH Project Laidlaw Environmental Services at NIH/Bethesda, MD: 1992--1999.

Managed all aspects of a \$6 Million/year contract; Directed environmental operating and consulting services, facility compliance and environmental operations for the NIH (National Institutes of Health) waste facility, a government owned permitted TSDF. Hired and supervised staff of 27 in management of low-level radioactive waste, hazardous waste, mixed waste, wastewater and analytical services. Oversaw tremendous expansion of services provided under this contract. Conducted environmental cleanup work and site remediation; operated computerized waste tracking systems. Conducted environmental sampling and directed lab analysis. Performed inspections and audits; Maintained liaison with government officials. Provided annual, quarterly and other reports; Designed, built, and operated waste treatment systems; Kept operating costs accountable with government contracting regulations. This contract was successfully rebid for another five-year term starting April 1998.

Operations Manager-Laurel Facility Laidlaw Environmental Services, Laurel, MD: 1991- 1992

Managed compliance and operations of a TSDF storage facility which provided hazardous waste management and field services; Hired and supervised operations personnel; Kept staff informed of changes to federal and state regulations; Conducted compliance audits for customers; Conducted environmental audits of disposal facilities.

Senior Routing Supervisor-Laurel Facility

Laidlaw Environmental (formerly known as GSX): 1984 - 1991

Reviewed waste stream profiles for acceptability; determined land disposal restrictions applicability for all waste streams. Reviewed laboratory analysis for all waste streams; Responsible for hazardous waste manifest acceptance. Conducted employee-training programs in RCRA and DOT regulations.

SPECIAL ACCOMPLISHMENTS:

1994-98 - UV Oxidation Treatment of Mixed Radioactive Hazardous Waste

Developed and designed treatment and pretreatment parameters and system configuration for UV/Hydrogen Peroxide oxidation treatment system for destruction of organic chemicals in mixed low level radioactive/hazardous waste water, at the NIH. This on site treatment operation has provided substantial cost savings and enhanced compliance for the customer while providing the Company with increased revenue by expanding the scope of services provided. This also enhanced the Company's ability to obtain and keep long-term contracts of this type.

1993-95 - Activated Carbon System for Treatment of Aqueous Radioactive Waste.

Developed, set up, and created treatment parameters and analytical protocols for the NIH activated carbon treatment unit for removal of organic contamination from low level radioactive waste water at NIH. This has enabled NIH to routinely meet discharge limits preventing fines and legal costs, while providing the company with increased revenue by expanding the scope of services. This also enhanced the Company's ability to obtain and keep these types of contracts.

1995 _ Aqueous Radioactive Waste Storage Tank Remediation and Redesign.

Developed procedures, supervised and implemented tank man way installation, sludge removal and remediation and treatment operations from nine low-level radioactive waste storage tanks at NIH. Completed project ahead of schedule and at 40% lower cost than the other bidder. This enabled the NIH to maintain and enhance their radioactive waste operations and their compliance. This project provided the Company with increased event revenue.

1993-98 - Environmental Lab

Set up and directed on-site environmental lab operations at NIH including volatile and semi volatile GCMS analysis, metals, TOC, and wet chemistry. This increased the scope of operations under this contract and has provided the Company with increased revenue.

1992 - 1998 - Waste Water Testing

1992 - 1997 - Provided wastewater compliance testing, biannual and batch, for toxic organic chemicals and other constituents for the NIH POTW discharge permit.

1993 - 1997 Provided testing for the NIH NPDES discharge permit.

1992 - Designed and implemented screening and testing techniques to keep organic contamination of NIH low level radioactive waste water below RCRA limits.

1994 - Air Emissions Testing

1994 - Provided air emissions compliance testing at NIH medical waste incinerators.

1994 - Provided air emissions compliance testing at NIH fuel oil and gas fired steam boilers.

1987 - Temporary Lab Manager and waste profile approval staff at the Pinewood, SC Landfill Facility during staff shortage.

1986, 1985 - Temporary waste profile approval and lab pack list approval at the Pinewood, SC facility.

Writing and Publications

- "UV Oxidation Treatment of Aqueous Radioactive Waste Standard Operating Procedure", 1998.

- “NIH Laboratory Quality Assurance and Quality Control Plan”, 1998
- “Carbon Adsorption Treatment of Aqueous Radioactive Waste”, 1998
- “Digestion of Organic Samples for Mercury Screening Using Cold Vapor Atomic Absorption”, 1998.
- “NIH Contract Hazardous and Radioactive Waste Operations Quality Assurance Plan”, 1998
- “NIH Contract Health, Safety and Radiation Protection Plan” (Edited), 1998
- “Standard Operating Procedure (SOP) for Counting Aqueous Radioactive Waste”, 1998
- “Sampling and Analysis of Wastewater Discharges at the National Institutes of Health”, Fall, 1997.
- “NIH Contract Technical Proposal” (Co-author), Sept., 1997
- “Sampling and Analysis of Wastewater Discharges at the National Institutes of Health”, Spring, 1997
- “Sampling and Analysis of Wastewater Discharges at the National Institutes of Health”, Fall. 1996.

Selected Training Courses

1996-Radiation Safety in the Laboratory, NIH, Bethesda, MD

1995-Mixed Waste Management, DSSI Chem-Nuclear Systems, Inc., Kingston. TN

1995-HM-126f training pursuant to 49 CFR 172-702, Laidlaw Environmental Services, Laurel, MD

1993-HM-181 Performance Oriented Packaging Standards, Laidlaw Environmental Services, Laurel, Md

1993-HMTUSA training program, Laidlaw Environmental Services, Laurel, MD

1993-40 hours Equivalency Training, Hazardous Waste Operations According to 29 CFR 1910.120

1988-Explosion Prevention and Protection, Hercules, Inc., Edison, NJ

CLYDE E. CHRISTMAN

PRINCIPAL HEALTH PHYSICIST

Radiological Engineer - Radiological Safety Trainer

Over 20 years experience developing, implementing and maintaining radiological safety programs. Recognized for raising safety performance to award winning levels while significantly reducing costs. Strong organizer, communicator and consensus-builder. Thorough knowledge of health physics practices with extensive experience in the following areas:

- Radiological Engineering Design Reviews
- Radiological Safety Training
- Contamination Control
- Radioactive Sources
- Respiratory Protection
- Exposure Control
- Radiological Assessments
- Emergency Preparedness
- Radiation-generating Devices

HEALTH PHYSICS RELATED TASKS

Commercial Nuclear Power (2006 – 2010)

- As Contamination Control Coordinator, reduced personnel contamination events (PCEs) by 50%.
- Performed tracking, trending and incident investigation of personnel contamination events.
- Implemented Tacky Pad Program for tracking and trending of contamination control points.
- Instructor/evaluator/coach Radiation Worker training and High Radiation Dynamic Learning Activity.
- Provided On-The-Job Training (OJT) for Junior Health Physics Technicians.
- Provided contamination control oversight for conduct of refueling/maintenance activities.
- Performed and documented radiological surveys: contamination; radiation; free release.
- Conducted air sampling: confined space; low/high volume; lapel; breathing zone; general area.
- Coordinated decontamination and release of areas, equipment and personnel.
- Evolution coverage in Reactor Containment Structure, Auxiliary Building, Safeguards, Quench Spray.
- Established radiological area boundaries; posted and down posted areas; provided alarm response.
- Provided access control as boundary guard for Locked High Radiation Areas.
- Supported Radiography operations.
- Asbestos abatement and soil contamination area remediation.
- Insulation removal and disposal; filter change; valve change/repack.
- Refuel floor activity oversight including CETNA, reactor head, upper internals, lower internals, steam generator, pressurizer, reactor coolant pumps, diving activity support, upper and lower cavity decon support.

Facilities

- Oyster Creek Nuclear Generating Station, Lacey, NJ
- North Anna Nuclear Power Station, Mineral, VA
- Surry Nuclear Power Station, Surry, VA
- Kewaunee Nuclear Power Station, Kewaunee, WI
- Point Beach Nuclear Plant, Two Rivers, WI

Weapons Production (1983 – 2003)

- Responsible for administration and technical oversight of the radiological protection program in 93 site buildings and lump sum areas as both Building and Project Engineer.
- Performed radiological engineering design reviews for modifications to existing buildings and systems that could affect radiological conditions and employee safety.
- As DOE certified assessor, conducted management assessments to identify deficiencies, perform root cause analyses, develop corrective actions, revise procedures, conduct training according to revised procedures, and perform follow-up assessments to determine effectiveness of corrective actions.
- Remained current and ensured compliance with federal regulations including DOT 49CFR, NFPA, NIOSH, EPA, OSHA, NESHAP, RCRA, CERCLA, SARA. Proactively identified risks and avoided potential fines.
- Developed respiratory protection policies and wrote procedures as needed for radiological, chemical and particulate hazards. Evaluated personal protective equipment (PPE).
- Conducted accident/incident investigations and developed corrective actions to eliminate root causes.
- Maintained radioactive source and radiation-generating device registries as Registrar and Custodian to ensure compliance with inspection and inventory requirements. Radioactive source OJT instructor/developer.
- Conducted bioassay/lung count sampling result reviews, tracking, evaluations, notifications, and follow-up.
- Implemented thermo luminescent dosimetry (TLD) program including exchange, positive control, dose report reviews, tracking, evaluating, reporting, termination and reinstatement. Performed dose reconstructions.
- Conducted nuclear accident dosimetry (NAD) audits and evaluated results.
- Performed property release evaluations and waste release evaluations.
- Collected, monitored, measured and documented air, water and soil samples for radionuclide content. Reviewed and evaluated air sample data reports.
- Conducted radiological instrumentation performance testing and electronic personnel dosimetry maintenance.
- Performed health and safety plan (HSPP), engineering order, operational safety analysis, and work package reviews and walk downs (Integrated Work Control Package).
- Performed radiation and contamination survey reviews, survey frequency evaluations, radiologically controlled area (RCA)/radioactive materials management area (RMMA) evaluations, and radiological posting audits/upgrades.
- Performed ALARA job reviews, wrote radiological work permits (RWPs) and generated radiological improvement reports.
- Wrote operational procedures and participated in procedure review, comment and revision process.
- Developed, implemented and revised performance-based training programs for 4,000 employees on seven shifts. This included both lectures and practical laboratory operations with follow-up testing, evaluation and remedial training for numerous radiological safety, chemical safety, industrial safety and respiratory protection courses including radiological safety training, general employee, SCBA, supplied breathing air operations, HAZWOPER, beryllium awareness, asbestos abatement, building indoctrinations, and specialized radiological worker training for Emergency Response Organizations (Fire, Medical, Security).
- Completed Radiological Control Technician progression program – served six years as Radiological Control Technician (RCT).

Facility

- Rocky Flats Environmental Technology Site, Golden, CO

COMMITTEES AND PROFESSIONAL ORGANIZATIONS

- National Registry of Radiation Protection Technologists (NRRPT) – Active since 1992
- Chairman, Executive Safety Committee, 1995-2003
- Chairman, ALARA Action Committee, 1990-1993; 1995-2003
- Tactical Operations Center, Radiological Safety Representative, 1995-2003
- Respiratory Protection Advisory Council, 1993-2003
- Joint Company/Union Safety Committee, 1995-2003
- Radiological Safety Center of Expertise, WSLLC Representative, 1995-2003

EDUCATION

Chemical Operations/Physics, Certificate, (56 hours) Community College of Denver, Denver, CO

Algebra/Chemistry, (8 hours) Shawnee State Community College, Portsmouth, OH

Business Administration, (8 hours) Portsmouth Interstate Business College, Portsmouth, OH

Elementary Education studies, (90 hours) Otterbein College, Westerville, OH

PROFESSIONAL DEVELOPMENT

- Hazardous Waste Operations and Emergency Response Compliance Solutions
- International ALARA Symposium, 01/29 – 02/05/1999 Orlando, Florida
- Radiological Assessor's Training for Auditors and Inspectors, DOE-0450 Technical Management Services, Inc.
- Basic Instructor Training EG&G Rocky Flats
- Health Physics for Uranium Users Technical Management Services, Inc.
- Experimental Design Statistical Applications Training Center
- Analysis of Measurement Systems Statistical Applications Training Center
- Statistical Process Control Statistical Applications Training Center
- Introduction to Scientific Thinking Statistical Applications Training Center
- NRRPT Review Course General Physics Corporation
- Effective Contamination Control Technical Management Services, Inc.
- Waste Minimization/Pollution Prevention WERC
- NRRPT Review Canberra Industries, Inc.
- Radiological Theory and Techniques for RPTs Rockwell International
- Radiation Monitor Progression Program Rockwell International

COMMUNITY INVOLVEMENT

- Enrichment Program – taught elementary students math and science for 6 years at Sierra Elementary, Arvada, CO
- Board of Directors, Rocky Flats Local Impacts Initiative
- Board of Directors, Moore Dale Ranch Home Owners Association

Debra D. Phillabaum

Lab Supervisor

Summary:

Debra has many years experience in radiochemistry and laboratory quality control. She has worked at many commercial radiochemical laboratories. Experience with various radiometric instruments include Beckman, Canberra, Nuclear Data, Berthold, EG & G, Packard, Tennelec as well as Eberline. Analytical procedures include radiochemical separation of nuclides by resin columns, precipitation, electro-deposition, emanation, extraction, and distillation. Sample matrices include soil, vegetation, biological specimens, water, clothing, and various other solids and liquids. Analytes include but not limited to gross alpha/beta, gamma, isotopic Uranium, isotopic Thorium, isotopic Plutonium, isotopic Americium/Curium, other rare earth alpha emitters, tritium, C14, Tc99, Pb210, Ra224/226/228, Sr89/90, radon and Fe55.

Debra has worked as the Lab Supervisor at CHDT since the beginning of acceptance of radioactive materials. She has had extensive training in radiation safety and the handling of radioactive materials. As Lab Supervisor, Debra oversees the quality assurance of the Laboratory including waste receiving and waste lab analysis. She supervises the performance of large parts of the environmental monitoring program including that of wastewater discharges, groundwater sampling, and air monitoring data collection and analysis. Debra's experience in radiochemical lab work enables her to critically evaluate generator radiochemical analyses that are critical to the waste acceptance process.

Education:

B. S. Composite Science, Wayland College, Cum Laude

Training:

Professional Experience:

2006-Present Clean Harbors Deer Trail LLC Lab. Supervisor

Responsibilities include overseeing all aspects of laboratory functions, including metals analysis, inputting sample data into the computer system, and overseeing outside laboratory analysis and manifest data entry and compliance. Debra is responsible for the quality assurance of all CHDT waste acceptance and lab operations.

2003-2006 Clean Harbors – Kimball Plant QA Manager

Responsibilities included overseeing all aspects of quality assurance and control within the laboratories, update current documents within the laboratories, maintain PE Studies and any resulting corrective actions, obtain and maintain laboratory certifications, maintain blind analysis schedule, internal audits, training schedules, and logbook review schedules. Prior to the hiring of a full time metals chemist, ran ICP and CVAA.

1999-2002 EnviroTest Laboratories, LLC QA Manager

Responsibilities included oversight of all aspects of the Quality Assurance Program within the laboratory, obtained and maintained national and state certifications, wrote and implemented procedures, audit responses, reports to management, training program, PE Studies and corrective actions, and internal audits. Attended an internal audit training class in 2002.

1995-1999 Core Laboratories QA/QC Coordinator

Responsibilities included oversight of all aspects of the Quality Assurance Program within the laboratory, obtained and maintained national and state certifications, wrote and implemented procedures, audit responses, reports to corporate, training program, PE Studies and corrective actions, and internal audits.

KIRK BAKER

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~ENVIRONMENTAL SAFETY AND HEALTH SPECIALIST~

SUMMARY OF QUALIFICATIONS

- Nine years as Environmental Compliance Career Professional with current extensive experience in Environmental Protection and OSHA compliance.
- Demonstrated ability to build rapport and resolve complex safety issues.
- Environmental law understanding and interpretation; soil classification and air monitoring.
- Ability to assess and apply basic first aid to a variety of injuries and to give, and monitor CPR. Knowledge of the triage procedures as well as both knowledge and experience in the handling of an emergency situation.

CORE COMPETENCIES

Safety and Training

- Employee and contractor onsite safety training inductions and orientations.
- Development of Induction documents for consistent site and job specific inductions.
- Construction and industrial hazard risk assessments and job-site safety audits.
- Worked closely with department advisors to promote safety while ensuring all targets were met.
- Close liaison with department heads to ensure all training needs are met and maintained.
- Designed, carried out and assessed training programs and courses.
- Site supervision to ensure high-risk job specific activities are undertaken safely and efficiently.
- Coached employees in safe work practices, safety standards and policies.
- Conducted accident and near miss investigations.
- Analyzed accident records to determine corrective measures and training needs.
- Prepared, presented and documented daily and weekly safety meetings and safety talks.
- Develop, implement and enforce safety policies and procedures.
- Prepared and monitored JSA / PTW documents and registers.
- Coordinated Workplace Compensation and Rehabilitation cases.
- Write, edited, produced newsletters, memos, policies, safety bulletins and alerts.
- Regular inspections to ensure that site safety practices are followed.
- Ensured regulatory conformance to all requirements including international safety standard ISO9001, OSHA, EPA, and USACE.

Environmental

- Confined space entry, contaminated soil removal and material decontamination as well as soil stabilization, characterization and disposal, and air monitoring.
- Remediation of radiological contaminated soil through excavation.
- Prepare and analyze air samples.
- Sampling included real time particulate samples, familiar with the use of the Multi-Rae organic vapor meter, and various other air quality sampling media.
- Remediation of contaminated soil through excavation and all areas of the soil wash treatment plant.
- Familiar with the use of the Multi-Rae organic vapor meter, TSI Dust Track real time particulate sampler, various tube samplers, along with other air quality testing devices.
- Perform radiological surveys with the use of gamma and alpha detection equipment.

Theoretical Abilities

- Assisted in the creation of Site Health and Safety Plans / Radiation Protection Plans.
- Implementation of Site Health and Safety Plans / Radiation Protection Plans
- Implementation of the Site Health and Safety Plan, USACE Safety and Health Requirements Manual and OSHA standards.

KIRK BAKER

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EMPLOYMENT BACKGROUND

HEALTH AND SAFETY: SEVENSON ENVIRONMENTAL SERVICES, INC. **JAN 2006 - PRESENT**
WELSBACH/GGM SUPERFUND PROJECT: GLOUCESTER CITY, NJ
EPA SUPERFUND REMEDIATION SITE

HEALTH AND SAFETY: SEVENSON ENVIRONMENTAL SERVICES, INC. **SEP 2002 – JAN 2006**
VINELAND CHEMICAL SUPERFUND PROJECT: VINELAND, NJ
EPA SUPERFUND REMEDIATION SITE

HEALTH AND SAFETY: SEVENSON ENVIRONMENTAL SERVICES, INC. **AUG 2002 – SEP 2002**
HOUSTONIC RIVER PROJECT: PITTSFIELD, MA
EPA/GE SUPERFUND REMEDIATION SITE

HEALTH AND SAFETY: SEVENSON ENVIRONMENTAL SERVICES, INC. **JUN 2002 – JUL 2002**
OLIN REMEDIATION PROJECT: SALTVILLE, VA

HEALTH AND SAFETY/ RADIOLOGICAL: SEVENSON ENVIRONMENTAL SERVICES, INC. **APR 2002 – MAY 2002**
U.S. RADIUM SUPERFUND PROJECT: ORANGE, NJ
EPA SUPERFUND REMEDIATION SITE

HEALTH AND SAFETY: SEVENSON ENVIRONMENTAL SERVICES, INC. **JAN 2002 – APR 2002**
VINELAND CHEMICAL SUPERFUND PROJECT: VINELAND, NJ
EPA SUPERFUND REMEDIATION SITE

HEALTH AND SAFETY/ RADIOLOGICAL: SEVENSON ENVIRONMENTAL SERVICES, INC. **AUG 2000 – DEC 2001**
U.S. RADIUM SUPERFUND PROJECT: ORANGE, NJ
EPA SUPERFUND REMEDIATION SITE

PROFESSIONAL DEVELOPMENT

OSHA 40 HR, OSHA Supervisory Training
USCOE Construction Quality Management for Contractors
Niton XRF Multi-spectrum Analyzer
Radiation Worker 1 and 2
First Aid, CPR, A.E.D. and Blood borne Pathogen Training,
OSHA 10 HR, Construction Safety
Radiation Safety Officer Training

EDUCATION

Technical Certificate in Data Processing, Indian River Community College, Fort Pierce, Florida

AFFILIATIONS

Member, American Industrial Hygiene Association Affiliate

REFERENCES

Available upon request

Prior Work Experience:

Hope Creek Nuclear Power Facility

Refuel Outage Support.

Health Physics Technician.

Duties: Inspected and prepared survey equipment. Provided support and monitoring of personal protection level requirements.

Susquehanna Steam Electric Station

Refuel Outages Support.

Health Physics Technician.

Duties: Provided support and monitoring of personal protection level requirements. Provided surveys/job coverage during drywell activities.

Robert E. Ginna Nuclear Station

Refuel Outage Support.

Health Physics Technician.

Duties: Provided support during equipment release, radwaste shipping, and general area surveys and air sampling.

Connecticut Yankee Atomic Power Co.

Refuel Outage Support.

Decontamination Technician.

Duties: Provide support during resin media transfers, high radiation filter transfers, dry active waste shipment.

Shoreham Nuclear Facility

Decommission Support

Decontamination Technician.

Duties: Assisted in the final decontamination of the spent fuel pool to allowable release levels.

Clean Harbors Inc. (Mrs. Paul's Food Processing Plant)

Hazardous Waste Removal

Environmental Field Technician

Duties: Provided support during contaminated equipment removal, total building decontamination, contaminated trash removal and prep. for transfer.

St. Lucie Nuclear Power Facility

Refuel Outage Support

Decontamination Technician.

Grand Gulf Nuclear Station

Refuel Outage Support

Mechanic/Decontamination Technician

Radiation Training Summary - Shaw

Employee: R. Shaw

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
3/11/2010	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
3/11/2010	OJT: Gamma Spectra Analysis	As Needed		
3/11/2010	OJT: Use of the Alpha Beta Counter	As Needed		
9/2/2009	SOP Landfill Operations	1 hr	John Hackett	Clean Harbors Deer Trail
9/2/2009	SOP Treatment Operations			
9/2/2009	Radiation Protection Instruments	10 hrs	John Hackett	Clean Harbors Deer Trail
9/2/2009	Radiation SOPs			
9/2/2009	Radiation Protection Plan			
9/2/2009	Surveys			
9/1/2009	Basics of Radiation and Radiochemistry	4 hrs	John Hackett	Clean Harbors Deer Trail
9/1/2009	Naturally Occuring Radioactivity			
9/1/2009	NORM and TENORM			
9/1/2009	Health Effects of Radiation			
9/1/2009	Basic Radiation Safety			
9/1/2009	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - Sanchez

Employee: J. Sanchez

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/1/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
1/18/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
1/19/2006	OJT: Gate Monitor Operation and Waste Acceptance	As Needed		
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - RMusgrave

Employee: R. Musgrave

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/1/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
1/19/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
1/19/2006	OJT: Personnel Surveys and Decontamination Techniques	As Needed		
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - Phillabaum

Employee: D. Phillabaum

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
2/13/2007	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/13/2007	OJT: Personnel Surveys and Decontamination Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/13/2007	OJT: Spill Response and Post-Clean-Up Surveys	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/13/2007	OJT: Equipment Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/13/2007	OJT: Gamma Spectra Analysis	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/13/2007	OJT: Use of the Alpha Beta Counter	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/13/2007	OJT: Gate Monitor Operation and Waste Acceptance	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
2/6/2007	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
2/6/2007	SOP Treatment Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
2/6/2007	Radiation Protection Instruments	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/6/2007	Radiation SOPs	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/6/2007	Radiation Protection Plan	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/6/2007	Surveys	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/5/2007	Basics of Radiation and Radiochemistry	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/5/2007	Naturally Occurring Radioactivity	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/5/2007	NORM and TENORM	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/5/2007	Health Effects of Radiation	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/5/2007	Basic Radiation Safety	2 hr	Scott Zoller	Clean Harbors Deer Trail
2/5/2007	Radiation Protection: Guidelines, Standards, and Regulations	2 hr	Scott Zoller	Clean Harbors Deer Trail

Training prior to 2007:

1982 - 1990	Introduction to Radiation/Annual Refresher	2 hrs	Nels Johnson	Eberline Analytical
	ALARA and Dosimetry/Annual Refreshers	4 hrs		
1990-1992	Radiation Safety Training/Annual Refresher	1 hr	current RSO	EcoTek LSI
	ALARA and Dosimetry/Annual Refresher	1 hr		
	SOP: Screening Trash	1 hr		
	SOP: Use of Hand and Foot Monitors	1 hr		
1993-1995	Introduction to Radiation/Annual Refresher	4 hrs	current RSO	IT Corporation
	ALARA and Dosimetry/Annual Refreshers	4 hrs		
1995-2002	Radiation Safety Training/Annual Refresher	4 hrs	David Demorest	Core Lab/EnviroTest Lab
	License Training/Annual Review	4 hrs		
	SOP: Use of Hand and Foot Monitors	1 hr		

Radiation Training Summary - O'Brien

Employee: D. O'Brien

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
3/31/2010	OJT: Gamma Spectra Analysis	As Needed	John Hackett	Clean Harbors Deer Trail
3/31/2010	OJT: Use of the Alpha Beta Counter	As Needed	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/1/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
1/19/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
1/19/2006	OJT: Personnel Surveys and Decontamination Techniques	As Needed		
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - Kehoe

Employee: J. Kehoe

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/1/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
1/18/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
1/19/2006	OJT: Personnel Surveys and Decontamination Techniques	As Needed		
1/19/2006	OJT: Spill Response and Post-Clean-Up Surveys	As Needed		
1/19/2006	OJT: Equipment Survey Techniques	As Needed		
1/19/2006	OJT: Gamma Spectra Analysis	As Needed		
1/19/2006	OJT: Gate Monitor Operation and Waste Acceptance	As Needed		
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			
1995-1998	Radiation Safety in The Laboratory	4 hours	Various	National Institutes of Health

Radiation Training Summary - Hickman

Employee: S. Hickman

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/15/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/19/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
12/19/2006	OJT: Personnel Surveys and Decontamination Techniques	As Needed		
12/19/2006	OJT: Equipment Survey Techniques	As Needed		
12/19/2006	OJT: Gamma Spectra Analysis	As Needed		
12/19/2006	OJT: Use of the Alpha Beta Counter	As Needed		
12/15/2006	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
12/16/2006	SOP Treatment Operations			
12/19/2006	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
12/19/2006	Radiation SOPs			
12/19/2006	Radiation Protection Plan			
12/19/2006	Surveys			
12/15/2006	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
12/15/2006	Naturally Occuring Radioactivity			
12/15/2006	NORM and TENORM			
12/15/2006	Health Effects of Radiation			
12/15/2006	Basic Radiation Safety			
12/15/2006	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - Hernandez

Employee: I. Hernandez

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/1/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
1/19/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
1/19/2006	OJT: Personnel Surveys and Decontamination Techniques	As Needed		
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - Atwood

Employee: L. Atwood

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
12/30/2008	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
11/30/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
1/18/2006	OJT: General Survey Techniques	As Needed	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
1/19/2006	OJT: Personnel Surveys and Decontamination Techniques	As Needed		
1/19/2006	OJT: Spill Response and Post-Clean-Up Surveys	As Needed		
1/19/2006	OJT: Equipment Survey Techniques	As Needed		
1/19/2006	OJT: Gamma Spectra Analysis	As Needed		
1/19/2006	OJT: Gate Monitor Operation and Waste Acceptance	As Needed		
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			

Radiation Training Summary - TMusgrave

Employee: T. Musgrave

Date	Title	Length	Trainer	Affiliation
12/22/2009	Radiation Awareness and Refresher Training	1 hr	John Hackett	Clean Harbors Deer Trail
9/3/2009	Summary of CDPHE Inspection	30 min	John Hackett	Clean Harbors Deer Trail
10/4/2007	Radiation Awareness and Refresher Training	1 hr	Scott Zoller	Clean Harbors Deer Trail
5/9/2007	SOP revision: Routine Radiation Surveys	1 hr	Scott Zoller	Clean Harbors Deer Trail
12/1/2006	Annual Refresher	1 hr	Scott Zoller	Clean Harbors Deer Trail
11/15/2005	SOP Landfill Operations	1 hr	John Kehoe	Clean Harbors Deer Trail
11/15/2005	SOP Treatment Operations			
10/18/05-10/19/05	Radiation Protection Instruments	10 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
10/18/05-10/19/05	Radiation SOPs			
10/18/05-10/19/05	Radiation Protection Plan			
10/18/05-10/19/05	Surveys			
9/28/05-9/29/05	Basics of Radiation and Radiochemistry	4 hrs	William E Kennedy Jr./Tracy A Ikenberry	Dade Moeller, Richland WA
9/28/05-9/29/05	Naturally Occuring Radioactivity			
9/28/05-9/29/05	NORM and TENORM			
9/28/05-9/29/05	Health Effects of Radiation			
9/28/05-9/29/05	Basic Radiation Safety			
9/28/05-9/29/05	Radiation Protection: Guidelines, Standards, and Regulations			