



**Stantec Consulting Services Inc.**  
3875 Atherton Road, Rocklin CA 95765-3716

07 December 2018

File: 185704364

Mr. Ezra Roati, Associate Architect  
City of Sacramento, Department of Public Works  
Facilities and Real Property Management  
5730 24<sup>th</sup> Street, Building 4  
Sacramento, California 95822

**Lead Remediation Work Plan  
James Mangan Park Rifle & Pistol Range  
2140 34<sup>th</sup> Avenue, Sacramento, California**

Dear Mr. Roati,

At request of the City of Sacramento (the City), Stantec Consulting Services Inc. (Stantec) has prepared this *Lead Remediation Work Plan* describing measures that will assist the City in the management of lead contaminated materials at the James Mangan Park Rifle & Pistol Range located at 2140 34<sup>th</sup> Avenue in Sacramento, California. This work plan complies with California Department of Public Health (CDPH) regulations. Our team of certified inspector/assessors, project monitors and technicians are available to assist with the post clean-up lead wipe confirmation sampling after remediation measures have been completed.

## **BACKGROUND**

The Mangan Park gun range building, approximately 7,980 square feet in size, was initially constructed in 1960 at 2140 34<sup>th</sup> Avenue in Sacramento, California (the Site). The City secured the services of Entek Consulting Group, Inc. (Entek) to prepare a *Report of Assessment for Lead* dated November 20, 2014. This lead assessment report is provided as an attachment. The assessment identified extensive lead contamination within each room and on the roof of the building. Concentrations of lead on surfaces exceeded CDPH criteria established in Title 17 as lead hazards. As such, any clean-up work undertaken at the Site should be performed by a contractor with CDPH certified lead workers and certified lead supervisors in accordance with Title 17 requirements. In addition, the contractor performing remediation work at the Site is required to comply with the work practices, training, and personal protective practices required by Cal/OSHA in 8 CCR 1532.1. Stantec understands that JM Environmental, Inc. Specialty Contractors (JM) has been selected to perform the work, and that the intention is to reuse the former gun range building as a multi-use community center.

## **LEAD REMEDIATION WORK PLAN**

This remediation work plan is designed to minimize and control potential lead hazards during the disturbance of dust that contains lead. These procedures and precautions apply to the disturbance of lead that may result from the preparation of surfaces prior to cleaning, from the cleaning, or removal of building components containing or covered with lead on their surfaces. The primary focus of this remediation work plan is to address the work practices and procedures that the contractor and/or other subcontractors must follow when conducting activities that may disturb lead contaminated dust, or in paint or other coatings while cleaning.

Design with community in mind

**Reference:** Lead Remediation Work Plan, James Mangan Park Rifle & Pistol Range, Sacramento

### Site Specific Information

Per Entek's 2014 report, the planned scope of work is to remove and dispose of all lead dust contaminated interior walls, fixtures, equipment, and materials and lead contaminated roofing materials and equipment in accordance with CDPH regulations. The lead remediation will include removal of the bulk lead waste located in the bullet trap area adjacent to the targeting shields.

The interior finishes of the building will be demolished to a "cold shell," per the following scope of work:

1. Demolish all non-bearing walls, lids, equipment, built-outs, etc. throughout building hand demolition to cold shell condition leaving structural interior walls and posts as applicable.
2. Collect and properly package, transport and dispose of all fluorescent light tubing, mercury switches, mercury light bulbs, and fluorescent light fixture ballast.

### Agency Notifications

The disturbance of lead on this project is being performed as part of a cleanup project and is designed to reduce lead hazards to the public. For this reason, the work is defined as abatement by Title 17 of the California Health and Safety Code. Contractors conducting abatement are to submit the "Abatement of Lead Hazard Notification" CDPH form 8551, to the CDPH.

Disturbance of more than 100 square or linear feet (whichever is less) of paint or surface coating containing levels of lead at or over 5,000 parts per million or 1.0 mg/cm<sup>2</sup> (lead-based paint) will trigger advance notification to Cal/OSHA in compliance with 8 CCR 1532.1 (p).

The contractor will be required to send notifications to Cal/OSHA and Sacramento County Environmental Management Department (EMD) prior to any disturbance of the lead at the Site. The notification will be sent to Cal/OSHA at least 24 hours prior to commencement of the work. The County of Sacramento Environmental Management Department has requested notification be sent at least 30 days prior to the commencement of work. Additionally, permits will need to be obtained for demolition of interior walls from the City of Sacramento Community and Development Department (CDD) and Sacramento Metropolitan Air Quality Management District (AQMD). These permits will be forwarded by the contractor to EMD and the City of Sacramento at least 10 days prior to commencement of the work. All required notifications and coordination will be routed through Sacramento County EMD, to satisfy all requirements of local and federal agencies.

### Work Practices and Training

A certified CDPH Supervisor as defined in Title 17, CCR, Section 35008 and Title 8 CCR Section 1532.1, subsection (b) shall supervise all work. The contractor is responsible for complying with all federal, state, and local regulations that may apply to the specific work they are conducting.

The contractor and other subcontractors disturbing lead must be familiar with the CDPH requirements regarding containment of lead hazards and debris and the Cal/OSHA lead in construction standard.

All surfaces are to be treated as having lead contaminated dust. For this reason, all workers at the Site who might reasonably be expected to disturb a painted surface must have lead hazard communication training.

**Reference:** Lead Remediation Work Plan, James Mangan Park Rifle & Pistol Range, Sacramento

Additional training is required for workers who will conduct what Cal/OSHA informally describes as ‘trigger tasks’ such as paint scraping or manual demolition of painted surfaces if the work will take longer than one hour in an eight-hour shift. Workers conducting this work will typically need to wear respirators and protective clothing while they conduct this work until sufficient air monitoring is conducted to determine the appropriate level of protection necessary.

The contractor and other subcontractors shall utilize engineering controls (i.e. wet methods, vacuums with High Efficiency Particulate Air [HEPA] filtration, etc.) to limit the release of lead dust or debris.

All work that disturbs lead will require containment. It is a violation of state law to create a lead hazard without a containment system that keeps the lead dust and debris from contaminating adjacent areas.

At a minimum, all workers are to obtain lead training in accordance with 8 CCR 1532.1 Lead in Construction and in accordance with 8 CCR 5144 Respiratory Protection specifically for lead hazards. The workers will not eat, drink, or smoke inside the building or within the regulated work area. The work area and applicable adjoining areas will be kept in an orderly manner. Debris will not be left on the ground and shall be removed at the end of each shift using a HEPA filtered vacuum.

### **Abatement Procedures**

Unless determined to be infeasible, all disturbance of lead-containing materials must utilize wet methods for dust suppression. Demolition debris will be removed by hand method with shovels and other similar tools. Materials will be shoveled directly into six-mil bags which will then be placed in DOT approved containers.

Following the gross removal of debris, surfaces will be HEPA vacuumed. Subsequent to cleaning, all areas will be sprayed with TSP-substitute triple rinse method. If any other methods or materials are used, they will first be submitted to Sacramento County EMD for approval.

### **Work Area and Material Containment**

The contractor is required to contain the disturbance of lead in a manner that prevents lead-contaminated dust, debris, water, or air from leaving the regulated work area in an uncontrolled fashion. The containment must be developed in compliance with the requirements of CDPH Title 17, Cal/OSHA, and this remediation work plan. The observation of visible emissions (dust or debris) coming from the containment will indicate that the containment is inadequate.

The contractor will implement procedures for entry and exit from the building to prevent lead dust from being released to the environment. A controlled area equipped with warning signs will be established around the Site for the duration of the project, including a locked access gate at the 34th Avenue Site entrance. Any access ladders to the roof will also have additional lead danger signs and barrier tape. Critical barriers and engineering controls to isolate work areas will be installed as needed, including interior and exterior type-site control, cones, barriers, negative pressure enclosure, signage, caution tape, ground drops, etc. HEPA filtered negative air machines will be installed as needed using flex tube venting to

**Reference:** Lead Remediation Work Plan, James Mangan Park Rifle & Pistol Range, Sacramento

achieve negative air pressure inside the work area and will be required to run throughout the duration of the project.

A personnel wash and decontamination area will be set up at the ingress and egress of the regulated area. A three-stage decontamination chamber entry/exit and waste load-out will be installed at the front entry. The decontamination area will be positioned on a poly drop sheet and consist of HEPA vacuum and wash water/towels to clean personnel, respirators and equipment. All personal protective equipment (PPE) will be removed inside this chamber.

The contractor will establish a location outside of the work area which will be designated for employees to consume food and beverages. Employees must utilize the decontamination facility prior to entering the designated eating/drinking location. Employees are required to wash their hands with soap and water at the designated decontamination facility prior to consuming food or beverages.

### **Personal Protective Equipment**

Respiratory protection must be provided to all employees where there is the potential for exposure to lead dust at or above the action level. The contractor will provide workers with sufficient sets of protective clothing, gloves, rubber boots, and eye protection whenever there is potential for exposure to lead dust at or above the action level.

Workers will not contact lead containing materials without wearing a minimum of a half-face respirator with dual HEPA filter cartridges, rubber gloves and a full head/body disposable suit, which includes booties. Personal protective equipment (respirators, suits, hard hats, goggles, gloves, fall protection, safety vests, etc.) will be used throughout the duration of the project.

### **Work Site Control and Signage**

The contractor will restrict the work areas to only authorized, trained and protected personnel, including their employees. The contractor's workers will not leave the regulated work area wearing lead contaminated clothing. The contractor's designated supervisor shall maintain the following records at the regulated work area(s):

1. Site Log (sign in / sign out);
2. Incident Log and Emergency Action Plan;
3. Personal air sampling results;
4. CDPH Supervisor / Worker training certificates, fit tests, medical clearance certificates, and blood lead levels.
5. Product Data and Safety Data Sheets for all products delivered to the Site.

All existing exterior signage and postings will be maintained in their clearly visible location on the exterior of the building. In addition, signage indicating that the interior lead removal work is undergoing will also be posted to notify and warn the public prior to commencement of the work. These postings will include compliance with the requirements by CDPH and as applicable by Cal/OSHA. In addition, CDPH and

**Reference:** Lead Remediation Work Plan, James Mangan Park Rifle & Pistol Range, Sacramento

Cal/OSHA lead warning signs and barrier tape will be posted to demarcate the lead work area to keep out all non-lead trained persons. All signage will be installed to the satisfaction of the EMD.

### **Air Monitoring**

The contractor will conduct personal air monitoring as required in 8 CCR 1532.1. Personal air monitoring will be conducted using battery operated personal air sampling pumps collecting air onto 0.8-micron mixed cellulose ester (MCE) filters housed in a 37 mm cassette at a flow rate of 1-4 liters/minute. The flow rates of the sampling pumps will be checked before and after sample periods from each worker using a calibrated rotameter that was previously calibrated against a primary standard. A minimum of two personal air samples will be collected on each work shift and one blank filter cassette will also be submitted each day. All personal air samples will be submitted to a laboratory that is AIHA accredited for lead analysis as well as a participant in the US EPA National Lead Lab Accreditation Program (NLLAP). Results of the personal sampling will be available within 24 hours of receipt by the contractor from the laboratory.

### **Waste**

Removed lead-containing material shall be kept wet and promptly placed in the type of waste containers specified below. The contractor is encouraged to place debris in containers shortly after it has been removed. However, at a minimum, all bulk debris must be containerized before any work stoppages such as for breaks, lunch, or the end of a shift.

The contractor is responsible for proper testing and disposal of all waste material. The contractor must conduct appropriate waste stream characterization testing and/or filtering prior to disposal of waste products such as water, vacuum debris, and filters generated during surface preparation activities.

All lead contaminated materials will be containerized and properly labeled as soon as waste is placed in a container. Suits, respirator filters, wipe towels and poly debris will first be placed into six-mil plastic bags in the work area. Prior to loading and transport, the waste will be profiled and manifested as applicable, adhering to EPA, DTSC, and DOT regulations. The waste will be characterized, stored, handled and disposed pursuant to CA Health and Safety Code, Division 20, Chapter 6.5. Accumulation of waste will not exceed timeframes for generator status per CCR 22, section 66262.34. The contractor may sign manifests as Agent for the Owner if requested by the City of Sacramento.

### **Emergency Plan**

In the event that an emergency situation occurs during scheduled working hours, the onsite CDPH Certified Supervisor will address the situation immediately. If the sealed control area is breached, work will cease until the barrier is repaired. The containment shall be tested prior to re-starting work. Fire department and other emergency phone numbers will be posted and readily available.

Spill control will be accomplished by having a supply of materials and equipment to deal with unexpected hazards. HEPA filtered vacuums, disposable towels, hand sprayers with water and PPE will always be onsite to contain and clean up any accidental spills. In the event of any emergency, the onsite supervisor will dial 911 for fire and medical emergencies and assist first responders with access. In addition, in the

**Reference:** Lead Remediation Work Plan, James Mangan Park Rifle & Pistol Range, Sacramento

event of any emergencies, the contractor will notify the City of Sacramento of any accidents. The City of Sacramento will immediately notify Sacramento County EMD of any notifications.

### **Lead Risk Confirmation Sampling**

Lead hazards or "lead-contaminated dust" is defined by the CDPH as dust that "contains an amount of lead equal to, or in excess of: (a) forty micrograms per square foot (40 ug/ft<sup>2</sup>) for interior floor surfaces; or (b) two hundred and fifty micrograms per square foot (250 ug/ft<sup>2</sup>) for interior horizontal surfaces; or (c) four hundred micrograms per square foot (400 ug/ft<sup>2</sup>) for exterior floor and exterior horizontal surfaces."

After removal of all interior walls, fixtures, equipment, materials, roofing materials and equipment, a lead risk assessment will be conducted by a CDPH certified Lead Inspector/Assessor to evaluate any remaining lead hazards associated with lead dust on vertical and horizontal surfaces. The lead risk assessment will include collection of wipe samples of interior walls of the range building, interior walkways at entry doors, and interior horizontal surfaces, and the remaining portions of the exterior roofing.

Surface wipe samples will be collected using Ghost Wipe sample media meeting the ASTM E 1792 standards for collection and analysis of wipe samples for lead. One blank Ghost Wipe sample will be submitted for analysis in addition to the samples collected at the Site.

All samples will be sent to a laboratory which is certified by CDPH per its Environmental Laboratory Accreditation Program to analyze these types of samples. The laboratory must be accredited by the Environmental Lead Laboratory Accreditation Program (ELLAP) administered by AIHA.

### **Clearance**

Once clearance of a work area has been achieved, the contractor will begin removal of critical barriers and equipment. In the event of failing to meet CDPH Title 17 dust clearance levels, the contractor will re-clean the work area at no additional cost to the City of Sacramento. If the re-cleaning effort fails criteria, then additional options will be discussed with the City of Sacramento.

### **Reporting and Record Keeping**

Files pertaining to the potential lead hazards and notifications of this project will be retained for at least three years following the completion of the project.

## **LIMITATIONS**

This document entitled Lead Remediation Work Plan was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of City of Sacramento (the "Client"). Any reliance on this document by a party other than the Client is at that party's sole risk. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be

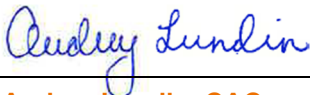
**Reference:** Lead Remediation Work Plan, James Mangan Park Rifle & Pistol Range, Sacramento

responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Sincerely,

**Stantec Consulting Services Inc.**

Prepared by:



---

**Audrey Lundin, CAC**  
Senior Associate  
Phone: (925) 627-4573  
Fax: (925) 627-4501  
Audrey.Lundin@stantec.com

Approved by:



---

**Dean Mochrie, CDPH #6305**  
Vice President, Environmental Services  
Phone: (916) 472-3932  
Fax: (916) 773-8448  
Dean.Mochrie@stantec.com

Reviewed by:



---

**Jason Stagno, CDPH #19068**  
Senior Scientist  
Phone: (805) 719-9392  
Fax: (805) 230-1277  
Jason.Stagno@stantec.com

Attachments: *Report of Assessment for Lead*, Entek Consulting Group, Inc., dated November 20, 2014

c. Neil Doran, Stantec Consulting Services Inc.





# ENTEK CONSULTING GROUP, INC.

4200 Rocklin Road, Suite 7, Rocklin, CA 95677 Telephone (916) 632-6800 Fax (916) 632-6812 [www.entekgroup.com](http://www.entekgroup.com)

November 20, 2014

Ms. Laura Greer  
Hazardous Materials Division Manager  
PARC Specialty Contractors, Inc.  
1400 Vinci Avenue  
Sacramento, CA 95838

Re: Mangan Rifle and Pistol Range, 2140 34<sup>th</sup> Avenue; Sacramento, CA; Report of Assessment for Lead

Dear Ms. Greer;

The report presents results of the limited lead risk assessment by Entek Consulting Group, Inc. (Entek) at the Mangan Rifle and Pistol Range located at the above address in Sacramento. You requested our assistance in assessing the lead dust levels inside of this building owned and operated by the City of Sacramento. The lead assessment by Entek was limited in scope and only included surface dust sampling inside of the building and on the roof of the building to determine lead loading on the various surfaces. This investigation did not include lead in paint assessment or lead-based paint inspection of painted components associated with the building, or testing of water or soil at the facility.

## **Lead Risk Assessment**

Lead hazards or "lead-contaminated dust" is defined by the California Department of Public Health (CDPH) Title 17 as dust that "contains an amount of lead equal to, or in excess of: (a) forty micrograms per square foot (40 ug/ft<sup>2</sup>) for interior floor surfaces; or (b) two hundred and fifty micrograms per square foot (250 ug/ft<sup>2</sup>) for interior horizontal surfaces; or (c) four hundred micrograms per square foot (400 ug/ft<sup>2</sup>) for exterior floor and exterior horizontal surfaces". In addition, lead hazards in soil have been identified as lead equal to or in excess of 400 ppm in children's play areas, and 1,000 ppm in all other areas.

The limited lead risk assessment was conducted on November 17, 2014, by Mr. Blake Howes, a CDPH certified Lead Inspector/Assessor to evaluate lead hazards associated with lead dust on surfaces. The lead risk assessment included collection of wipe samples of numerous surfaces of the floors, walls, shelves, desks, tables, furniture, horizontal surfaces of components near the ceiling floor areas in many areas of the building. Entek collected a total of 39 bulk samples of dust from surfaces within the building and on the roof of the building. Surface wipe samples were collected using Ghost Wipe samples meeting the ASTM E 1792 materials for collection and analysis of wipe samples for lead. One blank Ghost Wipe sample was submitted for analysis in addition to the 39 samples collected at the project site. The samples were delivered to Forensic Analytical Laboratories, Inc. (FASI) located in Hayward, CA and were analyzed by flame atomic absorption spectroscopy (AAS). FASI is certified by the State of California Department of Public Health Environmental Laboratory Accreditation Program to analyze these types of samples and is accredited by the Environmental Lead Laboratory Accreditation Program (ELLAP) administered by AIHA.

## **Observations**

The Range Building is a single story structure on a concrete slab foundation with brick & stucco exterior finishes and a multi-tier composition asphalt rolled roof. Interior floors are smooth concrete with an applied finish coat, walls are a mix of concrete, brick, and wood wall paneling. Ceilings are the underside of the wooden roof deck, painted white in most locations. Settled dust is visible in most locations throughout the interior of the building on floors, shelves, cabinets, counter tops, etc.

For the purposes of this investigation the interior spaces have been divided into nine separate locations as follows: gun range, locker rooms, entry lobby, men's restroom, women's restroom, rec room, classroom, kitchen, and stat office.





Ms. Laura Greer  
PARC Specialty Contractors, Inc.  
November 20, 2014  
Page Two

**Gun Range:** This room is the largest in the building, with various benches, bleachers, shelves, and tables at the east end and angled metal plates at the west end. Bullets are fired across the room from the east side benches to the west side metal plates. Angled metal plates are present in multiple locations in the center of the range at ceiling height to provide bullet deflection. Metal railing and track systems are also present at ceiling height for target carriage.

The angled metal plates at the west end of the room direct the fired bullets down into a bullet trap area that is mainly inaccessible from the main room. An exterior access door on the west side of the building provides access to the underside of the angled metal plates. This area has visible lead debris on all surfaces.

Six exhaust fans are located throughout the room, with multiple air intake vents located along the east side of the ceiling. The exhaust fan intake areas are visibly discolored as well as the roofing materials surrounding the exhaust fan housings on the exterior of the building.

**Lockers:** Two rooms comprise the locker room and storage areas. Lockers, cabinets, and a locked metal cage are present in this area. Padded cloth shooting mats are piled together beneath movable cardboard shooting targets in one area of the room.

**Entry Lobby:** The main entry area contains a desk and several chairs along with the entrances to the restrooms, gun range, and rec room.

**Men's RR:** A small restroom with a sink, single toilet stall, and two urinals. Visible flaking paint is present on the window sill above the sink and urinals.

**Women's RR:** A small restroom with a sink and single handicap toilet stall.

**Rec Room:** This room contains several padded leather couches, a padded leather chair, television, a wall mounted counter top, and a serving area that connects to the kitchen. Many cloth patches, hangings, pictures, and banners are present on the walls and ceilings in this area.

**Classroom:** This space contains tables, shelves, and cabinets throughout the area. Two window mounted AC units and a ceiling mounted heater unit are found in the room. Air rifle targets are set up at the east side of the room, which is presumably also used for air rifle practice.

**Kitchen:** The kitchen contains counter tops, a sink, a serving counter that connects to the rec room, a fridge, oven, and microwave. Pots and pans with visible dust accumulation are present on the shelves in the room.

**Stat Office:** This room contains a desk, tables, shelves, cabinets, and a washing machine.

### **Sampling Methods**

Bulk samples were collected using Ghost Wipe sample media to collect the surface dust from the sample component. New nitrile gloves were worn for each sample and discarded after each sample to minimize contamination of the samples. Where possible, one square foot of surface was sampled. A pre-cut paper template 12" x 12" in size was secured to the surface to be tested and the interior of the template opening surface area was wiped with the Ghost Wipe horizontally, and vertically, after folding inward the used portion of the Ghost Wipe. Samples were placed into a plastic centrifuge container, sealed and labeled with a unique sample identification number. All sample location, size of the sample and surface sampled is included in the chain of custody forms, which are attached to this report.



Ms. Laura Greer  
 PARC Specialty Contractors, Inc.  
 November 20, 2014  
 Page Three

All samples were analyzed for lead by the NIOSH 9100/7082 method by Forensic Analytical Laboratories, Inc. with results reported in micrograms per square foot (ug/ft<sup>2</sup>). Table 1 is a summary of the results of the testing of the interior of the building and Table 2 is a summary of the results of the testing from the roof.

Table 1: List of sample results for lead by surface type in each room. Results expressed in micrograms per square foot (ug/ft<sup>2</sup>).

	Floors	Walls	Ceiling Level Surfaces	Cabinets / Shelves / Waist Level Surfaces	Desks / Counters / Tables	Furniture	Bullet Targets
Gun Range	17,000 12,000		42,000	5,600 940 760 27,000	3,000	20,000	70,000
Locker Area	8,400			8,200		8,800	530
Entry Lobby	6,800				360		
Men's RR	3,200			3,500			
Women's RR	1,200			690			
Rec Room	3,600	1,300			680	2,200 1,400	
Classroom	3,800		12,000	10,000	160		
Kitchen	2,100			3,500 3,400	530		
Stat Office	13,000			4,100	2,100		

Floors: Samples collected from concrete floors with a finish coating

Walls: One sample collected in rec room with cloth wall hangings, plaques, and wood paneled walls

Ceiling Level Surfaces: One sample collected from the top of the angled metal deflection plate in the gun range near ceiling height, and one sample collected from the top of a heater unit near the ceiling in the classroom

Cabinets/Shelves/Waist Level Surfaces: Samples collected from tops of cabinets and lockers, from shelves in wood or metal shelving units, and various waist to chest high horizontal surfaces.

Desks/Counters/Tables: Samples collected from surfaces where it can be reasonably assumed people will be sitting or working and resting their arms or hands.

Furniture: Samples collected from bleachers, leather couches, leather chairs, and cloth shooting mats.



Ms. Laura Greer  
PARC Specialty Contractors, Inc.  
November 20, 2014  
Page Four

Bullet Targets: Samples collected from angled metal plates in gun range and movable cardboard targets stored in locker room area.

Table 2: List of sample results for roof surfaces. All samples collected from the roof area directly above gun range room. Results expressed in micrograms per square foot (ug/ft<sup>2</sup>).

	Roof Field over Gun Range	Roof at Gun Range Exhaust Fan	Gun Range Exhaust Fan Housing
Roof	440	7,000	19,000

Roof Field: Sample taken at least 10 feet away from any exhaust fan on composition asphalt roofing.

Roof at Exhaust Fan: Sample taken from area of visible gray discoloration directly adjacent to exhaust fan on composition asphalt roofing.

Exhaust Fan Housing: Sample taken on top of metal exhaust fan.

### **Discussions and Recommendations**

This lead assessment identified lead in surface dust in all 39 bulk samples collected ranging between 160 ug/ft<sup>2</sup> collected at the surface of table in the classroom to a high of 70,000 ug/ft<sup>2</sup> collected at the bullet shield at the east end of the Gun Range. Lead concentrations on the surface of the roof of above the Gun Range were between 440 ug/ft<sup>2</sup> at the center of the roof to 19,000 ug/ft<sup>2</sup> on the surface of the exhaust vent housing. Clearly, there is extensive lead contamination inside of the building in every room and on the roof of the building. Entek did not assess the lead in the soil in the immediate surrounding area of the building where lead from the roof would presumably have settled from rain and wash off from the roof.

The current concentrations of lead on surfaces exceed the CDPH criteria established in Title 17 as lead hazards, which are those as having lead dust on interior floor surfaces at or greater than 40 ug/ft<sup>2</sup>, at or greater than 250 ug/ft<sup>2</sup> on interior horizontal surfaces or at or greater than 400 ug/ft<sup>2</sup> on exterior floors or exterior horizontal surfaces. This criteria might be considered as a starting point to meet for clearance following remediation that may take place. The CDPH Title 17 standard is designed for a single family residence or building structure where children will be present to prevent childhood lead poisoning. The firing range is not a child care facility; however, children might visit the facility and be in the Rec Room, Kitchen, Main Entry or Restrooms where high lead levels have been detected, therefore the need for the clearance criteria to meet the CDPH Title 17 criteria might be warranted.

Any clean-up work that will be undertaken at this facility should be performed by a contractor with CDPH certified lead Workers and certified Lead Supervisors in accordance with Title 17 requirements. Requirements in Title 17 must be followed, since a lead hazard has been identified at this building. In addition, the contractor performing remediation work at this site are required to comply with the work practices, training, and personal protective practices required by Cal/OSHA in 8 CCR 1532.1.

Attached to this report are the chain of custody (COC) forms, laboratory reports, schematics identifying sample locations, photographs of various test locations, laboratory accreditation information and certification of Entek staff.

Entek's policy is to retain a full copy of these written documents for three (3) years once the file is closed and final billed. At the end of the three (3) year period the written files will be destroyed without further notice. It is suggested copies of the file(s) are maintained per the owner's policy.



Ms. Laura Greer  
PARC Specialty Contractors, Inc.  
November 20, 2014  
Page Five

Entek has will be providing only this electronic copy of the report and its attachments for your use. However, if you would like a hard copy of this report please do not hesitate to ask. Entek will be happy to mail the report upon receipt of your request.

Please forward a copy of this report to all interested parties for review. Thank you for choosing Entek for your environmental needs. If you have any questions with this report please call at (916) 632-6800 or on my cell phone at (916) 417-5276.

Sincerely,

A handwritten signature in blue ink that reads "Rick Beall".

Rick Beall, CIH, CSP  
President  
CDPH Lead Certification #769

Attachments

Z:\Clients\PARC Specialty Contractors\14-3323 Mangan Gun Range - Indoor Firing Range - Lead\Project Letters & Reports\Final Lead Assessment Report 11-20-14.wpd



# BULK MATERIAL *Analysis Report*

# LEAD WIPE SAMPLING

## **ENTEK CONSULTING GROUP, INC.**

4200 Rocklin Road, Suite 7  
PHONE (916) 632-6800  
FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

Date of Sampling: November 17, 2014

Lab: Forensic Analytical Laboratories

Job Number: 14-3323

Turnaround Time: Wednesday, 11/19/14 by 5:00PM

Client Name: PARC Specialty Contractors

Collected by: Blake Howes

Site Address: Mangan Gun Range  
2140 34<sup>th</sup> Avenue  
Sacramento, CA

SAMPLE #	RESULTS LEAD ( $\mu\text{g}/\text{ft}^2$ )	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-01Wipe	17000	Lead Dust Wipe - Gun Range - Floor at Bullet Trap	12" X 12"
ECG-14-3323-02Wipe	12000	Lead Dust Wipe - Gun Range - Floor at Shooting Rests	12" X 12"
ECG-14-3323-03Wipe	5600	Lead Dust Wipe - Gun Range - Cabinet Shelf	12" X 12"
ECG-14-3323-04Wipe	940	Lead Dust Wipe - Gun Range - Gun Rest Counter/Shelf	12" X 12"
ECG-14-3323-05Wipe	20000	Lead Dust Wipe - Gun Range - Bleachers	12" X 12"
ECG-14-3323-06Wipe	760	Lead Dust Wipe - Gun Range - Shooting Rest Benches	12" X 12"
ECG-14-3323-07Wipe	27000	Lead Dust Wipe - Gun Range - Control Station Shelf	12" X 12"
ECG-14-3323-08Wipe	42000	Lead Dust Wipe - Gun Range - Bullet Shield Near Ceiling	12" X 12"
ECG-14-3323-09Wipe	70000	Lead Dust Wipe - Gun Range - Bullet Shield at End of Range	12" X 12"
ECG-14-3323-10Wipe	3000	Lead Dust Wipe - Gun Range - Shooting Rest Moveable Bench	12" X 12"
ECG-14-3323-11Wipe	8400	Lead Dust Wipe - Locker Room at Floor	12" X 12"
ECG-14-3323-12Wipe	8200	Lead Dust Wipe - Locker Room at Locker/Cabinet Top	12" X 12"
ECG-14-3323-13Wipe	8800	Lead Dust Wipe - Locker Room at Movable Shooting Mat	12" X 12"
ECG-14-3323-14Wipe	530	Lead Dust Wipe - Locker Room at Moveable Cardboard Target	12" X 12"



# BULK MATERIAL Analysis Report

# LEAD WIPE SAMPLING

## ENTEK CONSULTING GROUP, INC.

4200 Rocklin Road, Suite 7  
PHONE (916) 632-6800  
FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

Date of Sampling: November 17, 2014

Lab: Forensic Analytical Laboratories

Job Number: 14-3323

Turnaround Time: Wednesday, 11/19/14 by 5:00PM

Client Name: PARC Specialty Contractors

Collected by: Blake Howes

Site Address: Mangan Gun Range  
2140 34<sup>th</sup> Avenue  
Sacramento, CA

SAMPLE #	RESULTS LEAD ( $\mu\text{g}/\text{ft}^2$ )	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-15Wipe	6800	Lead Dust Wipe - Main Entry Lobby at Floor	12" X 12"
ECG-14-3323-16Wipe	360	Lead Dust Wipe - Main Entry Lobby at Desk	12" X 12"
ECG-14-3323-17Wipe	3200	Lead Dust Wipe - Men's Restroom at Floor	12" X 12"
ECG-14-3323-18Wipe	3500	Lead Dust Wipe - Men's Restroom at Sill	4" X 36"
ECG-14-3323-19Wipe	1200	Lead Dust Wipe - Women's Restroom at Floor	12" X 12"
ECG-14-3323-20Wipe	690	Lead Dust Wipe - Women's Restroom at Trashcan Lid	12" X 12"
ECG-14-3323-21Wipe	3600	Lead Dust Wipe - Rec Room at Floor	12" X 12"
ECG-14-3323-22Wipe	2200	Lead Dust Wipe - Rec Room at Couch	12" X 12"
ECG-14-3323-23Wipe	1400	Lead Dust Wipe - Rec Room at Chair	12" X 12"
ECG-14-3323-24Wipe	680	Lead Dust Wipe - Rec Room at Counter	12" X 12"
ECG-14-3323-25Wipe	1300	Lead Dust Wipe - Rec Room at Wall with Wall Hangings	12" X 12"
ECG-14-3323-26Wipe	3800	Lead Dust Wipe - Classroom at Floor	12" X 12"
ECG-14-3323-27Wipe	160	Lead Dust Wipe - Classroom at Table	12" X 12"
ECG-14-3323-28Wipe	10000	Lead Dust Wipe - Classroom at Shelf	12" X 12"



**BULK MATERIAL Analysis Report**

**LEAD WIPE SAMPLING**

**ENTEK CONSULTING GROUP, INC.**

4200 Rocklin Road, Suite 7  
 PHONE (916) 632-6800  
 FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

Date of Sampling: November 17, 2014

Lab: Forensic Analytical Laboratories

Job Number: 14-3323

Turnaround Time: Wednesday, 11/19/14 by 5:00PM

Client Name: PARC Specialty Contractors

Collected by: Blake Howes

Site Address: Mangan Gun Range  
 2140 34<sup>th</sup> Avenue  
 Sacramento, CA

SAMPLE #	RESULTS LEAD ( $\mu\text{g}/\text{ft}^2$ )	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-29Wipe	12000	Lead Dust Wipe - Classroom at Heater	12" X 12"
ECG-14-3323-30Wipe	2100	Lead Dust Wipe - Kitchen at Floor	12" X 12"
ECG-14-3323-31Wipe	530	Lead Dust Wipe - Kitchen at Serving Area	12" X 12"
ECG-14-3323-32Wipe	3500	Lead Dust Wipe - Kitchen at Microwave Top	12" X 12"
ECG-14-3323-33Wipe	3400	Lead Dust Wipe - Kitchen at Pots on Shelf	12" X 12"
ECG-14-3323-34Wipe	13000	Lead Dust Wipe - Stat Office at Floor	12" X 12"
ECG-14-3323-35Wipe	2100	Lead Dust Wipe - Stat Office at Table	12" X 12"
ECG-14-3323-36Wipe	4100	Lead Dust Wipe - Stat Office at Shelf	12" X 12"
ECG-14-3323-37Wipe	440	Lead Dust Wipe - Roof at Center Field	12" X 12"
ECG-14-3323-38Wipe	7000	Lead Dust Wipe - Roof at Vent Exhaust	12" X 12"
ECG-14-3323-39Wipe	19000	Lead Dust Wipe - Roof at Top of Exhaust Fan Housing	12" X 12"
ECG-14-3323-40Wipe	< 8	Blank - Lead Dust Wipe; Ghost Wipe	N/A

Z:\Clients\PARC Specialty Contractors\14-3323 Mangan Gun Range - Indoor Firing Range - Lead\Lead Wipe\LeadWipeReport 11-17-14.wpd





# Metals Analysis of HUD Wipes

Entek Consulting Group  
Project Manager  
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

**Client ID:** A31353  
**Report Number:** M155930  
**Date Received:** 11/18/14  
**Date Analyzed:** 11/19/14  
**Date Printed:** 11/19/14  
**First Reported:** 11/19/14

**Job ID / Site:** 14-3323, PARC Specialty Contractors, Mangan Gun Range, 2140 34th Avenue, Sacramento, CA

**Date(s) Collected:** 1/17/14

**FALI Job ID:** A31353

**Total Samples Submitted:** 10

**Total Samples Analyzed:** 10

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-14-3323-01WIPE	30700203	1.00	Pb	17000	ug/ft2	800	NIOSH 9100/7082
ECG-14-3323-02WIPE	30700204	1.00	Pb	12000	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-03WIPE	30700205	1.00	Pb	5600	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-04WIPE	30700206	1.00	Pb	940	ug/ft2	30	NIOSH 9100/7082
ECG-14-3323-05WIPE	30700207	1.00	Pb	20000	ug/ft2	800	NIOSH 9100/7082
ECG-14-3323-06WIPE	30700208	1.00	Pb	760	ug/ft2	30	NIOSH 9100/7082
ECG-14-3323-07WIPE	30700209	1.00	Pb	27000	ug/ft2	800	NIOSH 9100/7082
ECG-14-3323-08WIPE	30700210	1.00	Pb	42000	ug/ft2	2000	NIOSH 9100/7082
ECG-14-3323-09WIPE	30700211	1.00	Pb	70000	ug/ft2	4000	NIOSH 9100/7082
ECG-14-3323-10WIPE	30700212	1.00	Pb	3000	ug/ft2	200	NIOSH 9100/7082

Note to clients performing work related to the Lead Based Paint Hazard Reduction Act: Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.

Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard. We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form.

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



# Metals Analysis of HUD Wipes

Entek Consulting Group  
Project Manager  
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

**Client ID:** A31353  
**Report Number:** M155929  
**Date Received:** 11/18/14  
**Date Analyzed:** 11/19/14  
**Date Printed:** 11/19/14  
**First Reported:** 11/19/14

**Job ID / Site:** 14-3323, PARC Specialty Contractors, Mangan Gun Range, 2140 34th Avenue,  
Sacramento, CA

**FALI Job ID:** A31353

**Date(s) Collected:** 11/17/14

**Total Samples Submitted:** 10

**Total Samples Analyzed:** 10

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-14-3323-11WIPE	30700193	1.00	Pb	8400	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-12WIPE	30700194	1.00	Pb	8200	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-13WIPE	30700195	1.00	Pb	8800	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-14WIPE	30700196	1.00	Pb	530	ug/ft2	20	NIOSH 9100/7082
ECG-14-3323-15WIPE	30700197	1.00	Pb	6800	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-16WIPE	30700198	1.00	Pb	360	ug/ft2	20	NIOSH 9100/7082
ECG-14-3323-17WIPE	30700199	1.00	Pb	3200	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-18WIPE	30700200	1.00	Pb	3500	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-19WIPE	30700201	1.00	Pb	1200	ug/ft2	40	NIOSH 9100/7082
ECG-14-3323-20WIPE	30700202	1.00	Pb	690	ug/ft2	30	NIOSH 9100/7082

Note to clients performing work related to the Lead Based Paint Hazard Reduction Act: Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.

Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard. We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form.

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



# Metals Analysis of HUD Wipes

Entek Consulting Group  
Project Manager  
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

**Client ID:** A31353  
**Report Number:** M155926  
**Date Received:** 11/18/14  
**Date Analyzed:** 11/19/14  
**Date Printed:** 11/19/14  
**First Reported:** 11/19/14

**Job ID / Site:** 14-3323, Mangan Gun Range, 2140 34th Avenue, Sacramento, CA  
**Date(s) Collected:** 11/17/14

**FALI Job ID:** A31353  
**Total Samples Submitted:** 10  
**Total Samples Analyzed:** 10

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-14-3323-21WIPE	30700173	1.00	Pb	3600	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-22WIPE	30700174	1.00	Pb	2200	ug/ft2	80	NIOSH 9100/7082
ECG-14-3323-23WIPE	30700175	1.00	Pb	1400	ug/ft2	40	NIOSH 9100/7082
ECG-14-3323-24WIPE	30700176	1.00	Pb	680	ug/ft2	30	NIOSH 9100/7082
ECG-14-3323-25WIPE	30700177	1.00	Pb	1300	ug/ft2	40	NIOSH 9100/7082
ECG-14-3323-26WIPE	30700178	1.00	Pb	3800	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-27WIPE	30700179	1.00	Pb	160	ug/ft2	8	NIOSH 9100/7082
ECG-14-3323-28WIPE	30700180	1.00	Pb	10000	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-29WIPE	30700181	1.00	Pb	12000	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-30WIPE	30700182	1.00	Pb	2100	ug/ft2	80	NIOSH 9100/7082

Note to clients performing work related to the Lead Based Paint Hazard Reduction Act: Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.

Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard. We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form.

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



# Metals Analysis of HUD Wipes

Entek Consulting Group  
Project Manager  
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

**Client ID:** A31353  
**Report Number:** M155928  
**Date Received:** 11/18/14  
**Date Analyzed:** 11/19/14  
**Date Printed:** 11/19/14  
**First Reported:** 11/19/14

**Job ID / Site:** 14-3323, PARC Specialty Contractors, Mangan Gun Range, 2140 34th Avenue, Sacramento, CA

**FALI Job ID:** A31353

**Date(s) Collected:** 11/17/14

**Total Samples Submitted:** 9

**Total Samples Analyzed:** 9

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-14-3323-31WIPE	30700184	1.00	Pb	530	ug/ft2	20	NIOSH 9100/7082
ECG-14-3323-32WIPE	30700185	1.00	Pb	3500	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-33WIPE	30700186	1.00	Pb	3400	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-34WIPE	30700187	1.00	Pb	13000	ug/ft2	400	NIOSH 9100/7082
ECG-14-3323-35WIPE	30700188	1.00	Pb	2100	ug/ft2	80	NIOSH 9100/7082
ECG-14-3323-36WIPE	30700189	1.00	Pb	4100	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-37WIPE	30700190	1.00	Pb	440	ug/ft2	20	NIOSH 9100/7082
ECG-14-3323-38WIPE	30700191	1.00	Pb	7000	ug/ft2	200	NIOSH 9100/7082
ECG-14-3323-39WIPE	30700192	1.00	Pb	19000	ug/ft2	800	NIOSH 9100/7082

Note to clients performing work related to the Lead Based Paint Hazard Reduction Act: Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.

Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard. We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form.

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



# Metals Analysis of HUD Wipes

Entek Consulting Group  
Blake Howes  
4200 Rocklin Road, Suite 7  
  
Rocklin, CA 95677

**Client ID:** A31353  
**Report Number:** M155994  
**Date Received:** 11/19/14  
**Date Analyzed:** 11/20/14  
**Date Printed:** 11/20/14  
**First Reported:** 11/20/14

**Job ID / Site:** 14-3323, PARC Specialty Contractors, Mangan Gun Range, 2140 34th Avenue, Sacramento, CA

**FALI Job ID:** A31353

**Date(s) Collected:** 11/17/14

**Total Samples Submitted:** 1

**Total Samples Analyzed:** 1

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-14-3323-40WIPE	30700363	Pb	< 8	ug	8	NIOSH 9100/7082

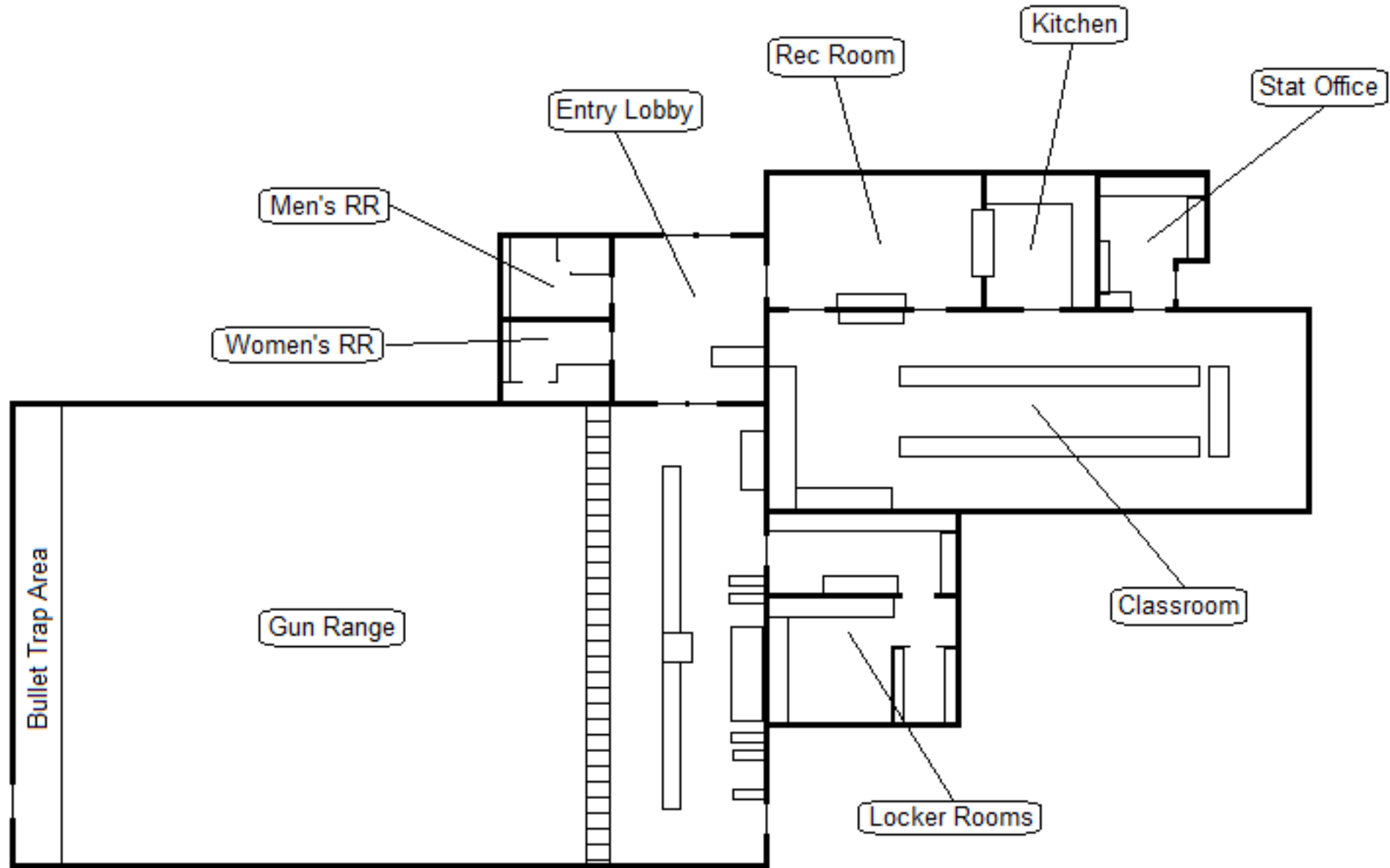
Note to clients performing work related to the Lead Based Paint Hazard Reduction Act: Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.

Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard. We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form.

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



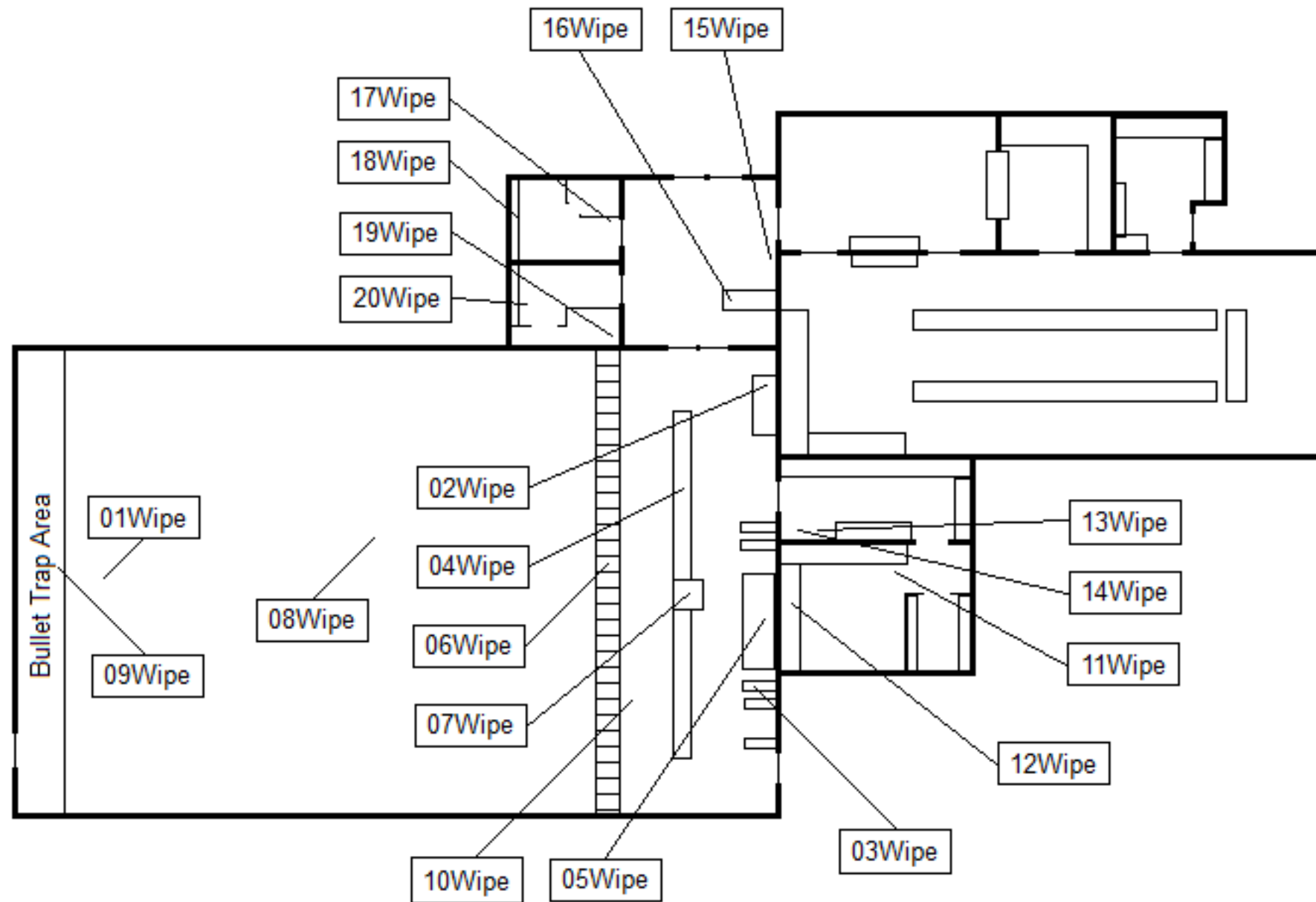
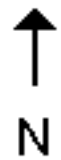
All Samples Preceeded by: ECG-14-3323-

PARC Specialty Contractors  
Mangan Rifle & Pistol Range  
2140 34th Avenue  
Sacramento, CA 95822

Entek Consulting Group, Inc.  
4200 Rocklin Road, Suite 7  
Rocklin, CA 95877  
Map Not to Scale

Lead Wipe Sample Location Diagram  
Samples Collected by: Blake Howes  
November 17, 2014  
Project #14-3323

All Sample Locations Constitute a Lead Hazard as Defined by Title 17 & EPA



All Samples Preceeded by: ECG-14-3323-

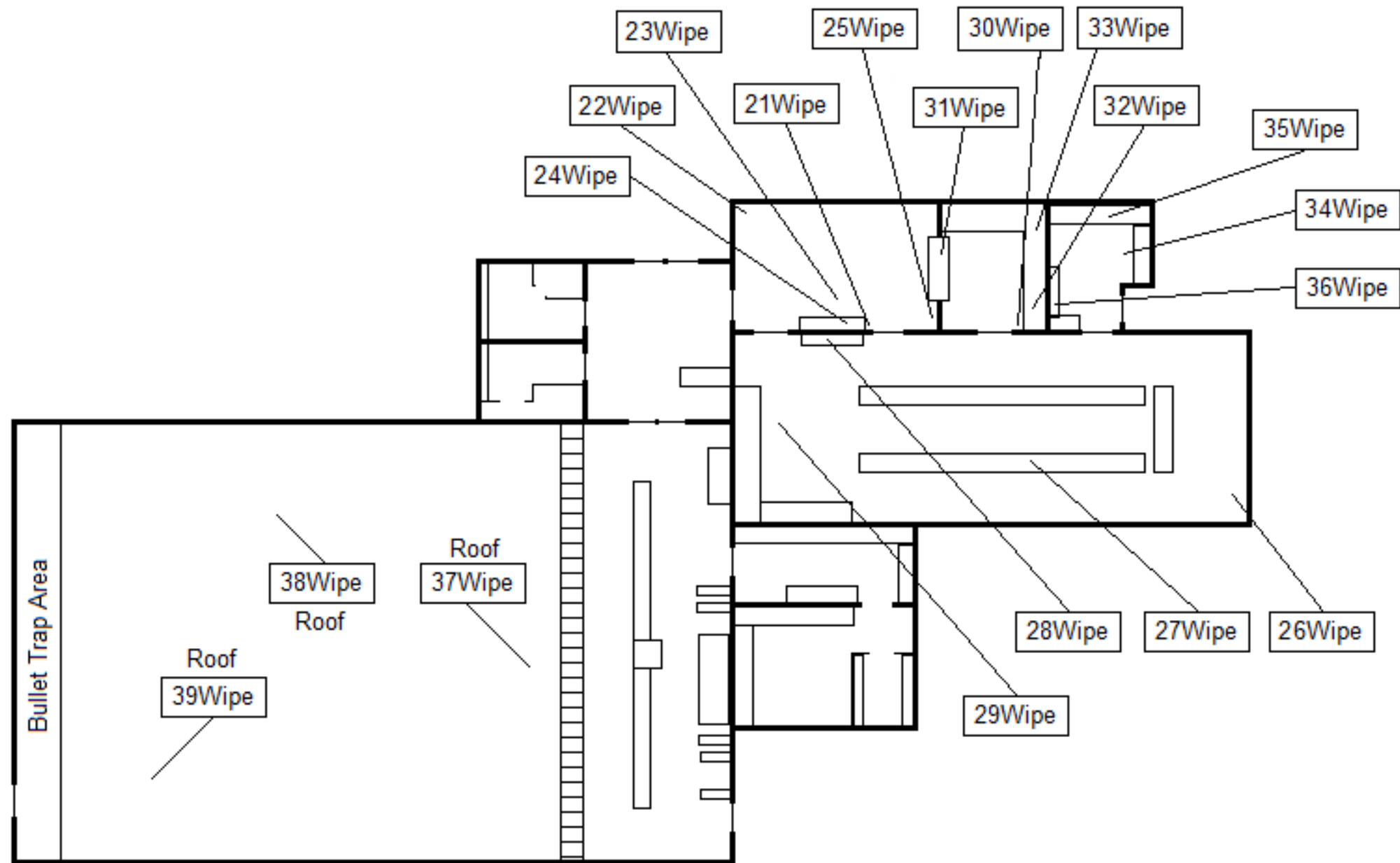
PARC Specialty Contractors  
Mangan Rifle & Pistol Range  
2140 34th Avenue  
Sacramento, CA 95822

Entek Consulting Group, Inc.  
4200 Rocklin Road, Suite 7  
Rocklin, CA 95877  
Map Not to Scale

Lead Wipe Sample Location Diagram  
Samples Collected by: Blake Howes  
November 17, 2014  
Project #14-3323



All Sample Locations EXCEPT 27Wipe Constitute a Lead Hazard as Defined by Title 17 & EPA



All Samples Preceeded by: ECG-14-3323-

PARC Specialty Contractors  
Mangan Rifle & Pistol Range  
2140 34th Avenue  
Sacramento, CA 95822

Entek Consulting Group, Inc.  
4200 Rocklin Road, Suite 7  
Rocklin, CA 95677  
Map Not to Scale

Lead Wipe Sample Location Diagram  
Samples Collected by: Blake Howes  
November 17, 2014  
Project #14-3323

**BULK MATERIAL Analysis Request**

4200 Rocklin Road, Suite 7  
 PHONE (916) 632-6800  
 FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**LEAD WIPE SAMPLING**

**Date of Sampling:** November 17, 2014

**Lab:** Forensic Analytical Laboratories

**Job Number:** 14-3323

**Turnaround Time:** Wednesday, 11/19/14 by 5:00PM

**Client Name:** PARC Specialty Contractors

**Collected by:** Blake Howes

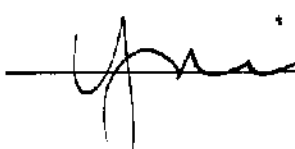
**Site Address:** Mangan Gun Range  
 2140 34<sup>th</sup> Avenue  
 Sacramento, CA

**Analysis Conducted:** Lead by Atomic Absorption Spectrometry

**Special Instructions:** Please email results to [mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com) & [Bhowes@entekgroup.com](mailto:Bhowes@entekgroup.com) as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQURE FEET)
ECG-14-3323-01Wipe	Lead Dust Wipe - Gun Range - Floor at Bullet Trap	12" X 12"
ECG-14-3323-02Wipe	Lead Dust Wipe - Gun Range - Floor at Shooting Rests	12" X 12"
ECG-14-3323-03Wipe	Lead Dust Wipe - Gun Range - Cabinet Shelf	12" X 12"
ECG-14-3323-04Wipe	Lead Dust Wipe - Gun Range - Gun Rest Counter/Shelf	12" X 12"
ECG-14-3323-05Wipe	Lead Dust Wipe - Gun Range - Bleachers	12" X 12"
ECG-14-3323-06Wipe	Lead Dust Wipe - Gun Range - Shooting Rest Benches	12" X 12"
ECG-14-3323-07Wipe	Lead Dust Wipe - Gun Range - Control Station Shelf	12" X 12"
ECG-14-3323-08Wipe	Lead Dust Wipe - Gun Range - Bullet Shield Near Ceiling	12" X 12"
ECG-14-3323-09Wipe	Lead Dust Wipe - Gun Range - Bullet Shield at End of Range	12" X 12"
ECG-14-3323-10Wipe	Lead Dust Wipe - Gun Range - Shooting Rest Moveable Bench	12" X 12"

**Delivered by:** Fed Ex PO- \_\_\_\_\_ **Date:** 11/17/14 **Time:** 3:30 PM

**Received by:**  \_\_\_\_\_ **Date:** 11, 18, 14 **Time:** 1 AM/PM

Subject: COC  
To: Jim Flores <jflores@falaboratories.com>

Jim,

Find attached "Corrected Copy" of the Chain of Custody, if needed, with the CORRECT Turn Around Time of Wednesday, 11/19/14 by 5:00 pm. Project name: PARC Specialty Contractors with job #14-3323.

Also, we forgot to include one Blank Wipe (#40). I am sending it over today via Fed Ex.

I am sorry for the error.

Call Blake if any questions.

Have a Great Day!

Barbara Stevens, Project Manager Administrative Assistant

Entek Consulting Group, Inc.

4200 Rocklin Road, Suite 7

Rocklin, CA 95677

(916) 632-6800 Tele.

(916) 632-6812 Fax

bstevens@entekgroup.com

---

 **LeadWipeRqt 11-24-14CC.pdf**  
102K

---

Yesenia Garcia <ygarcia@falaboratories.com>  
To: MaryGrace Villanueva <mgvillanueva@falaboratories.com>

Tue, Nov 18, 2014 at 1:00 PM

Done!

[Quoted text hidden]



**Forensic Analytical  
Laboratories, Inc.**

**BULK MATERIAL Analysis Request**

**LEAD WIPE SAMPLING**

4200 Rocklin Road, Suite 7  
 PHONE (916) 632-6800  
 FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** November 17, 2014

**Lab:** Forensic Analytical Laboratories

**Job Number:** 14-3323

**Turnaround Time:** Wednesday, 11/19/14 by 5:00PM

**Client Name:** PARC Specialty Contractors

**Collected by:** Blake Howes

**Site Address:** Mangan Gun Range  
 2140 34<sup>th</sup> Avenue  
 Sacramento, CA

**Analysis Conducted:** Lead by Atomic Absorption Spectrometry

**Special Instructions:** Please email results to [mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com) & [Bhowes@entekgroup.com](mailto:Bhowes@entekgroup.com) as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-11Wipe	Lead Dust Wipe - Locker Room at Floor	12" X 12"
ECG-14-3323-12Wipe	Lead Dust Wipe - Locker Room at Locker/Cabinet Top	12" X 12"
ECG-14-3323-13Wipe	Lead Dust Wipe - Locker Room at Movable Shooting Mat	12" X 12"
ECG-14-3323-14Wipe	Lead Dust Wipe - Locker Room at Moveable Cardboard Target	12" X 12"
ECG-14-3323-15Wipe	Lead Dust Wipe - Main Entry Lobby at Floor	12" X 12"
ECG-14-3323-16Wipe	Lead Dust Wipe - Main Entry Lobby at Desk	12" X 12"
ECG-14-3323-17Wipe	Lead Dust Wipe - Men's Restroom at Floor	12" X 12"
ECG-14-3323-18Wipe	Lead Dust Wipe - Men's Restroom at Sill	4" X 36"
ECG-14-3323-19Wipe	Lead Dust Wipe - Women's Restroom at Floor	12" X 12"
ECG-14-3323-20Wipe	Lead Dust Wipe - Women's Restroom at Trashcan Lid	12" X 12"

**Delivered by:** Fed Ex PO- \_\_\_\_\_ **Date:** 11/17/14 **Time:** 3:30 PM

**Received by:**                     *gm*                     **Date:** 11/18/14 **Time:** 1 AM/PM

Subject: COC  
To: Jim Flores <jflores@falaboratories.com>

Jim,

Find attached "Corrected Copy" of the Chain of Custody, if needed, with the CORRECT Turn Around Time of Wednesday, 11/19/14 by 5:00 pm. Project name: PARC Specialty Contractors with job #14-3323.

Also, we forgot to include one Blank Wipe (#40). I am sending it over today via Fed Ex.

I am sorry for the error.

Call Blake if any questions.

Have a Great Day!

Barbara Stevens, Project Manager Administrative Assistant

Entek Consulting Group, Inc.

4200 Rocklin Road, Suite 7

Rocklin, CA 95677

(916) 632-6800 Tele.

(916) 632-6812 Fax

bstevens@entekgroup.com

---

 LeadWipeRqt 11-24-14CC.pdf  
102K

---

Yesenia Garcia <ygarcia@falaboratories.com>  
To: MaryGrace Villanueva <mgvillanueva@falaboratories.com>

Tue, Nov 18, 2014 at 1:00 PM

Done!

[Quoted text hidden]



**Forensic Analytical  
Laboratories, Inc.**

**BULK MATERIAL Analysis Request**
**LEAD WIPE SAMPLING**

4200 Rocklin Road, Suite 7  
 PHONE (916) 632-6800  
 FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** November 17, 2014

**Lab:** Forensic Analytical Laboratories

**Job Number:** 14-3323

**Turnaround Time:** Wednesday, 11/19/14 by 5:00PM

**Client Name:** PARC Specialty Contractors

**Collected by:** Blake Howes

**Site Address:** Mangan Gun Range  
 2140 34<sup>th</sup> Avenue  
 Sacramento, CA

**Analysis Conducted:** Lead by Atomic Absorption Spectrometry

**Special Instructions:** Please email results to [mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com) & [Bhowes@entekgroup.com](mailto:Bhowes@entekgroup.com) as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-21Wipe	Lead Dust Wipe - Rec Room at Floor	12" X 12"
ECG-14-3323-22Wipe	Lead Dust Wipe - Rec Room at Couch	12" X 12"
ECG-14-3323-23Wipe	Lead Dust Wipe - Rec Room at Chair	12" X 12"
ECG-14-3323-24Wipe	Lead Dust Wipe - Rec Room at Counter	12" X 12"
ECG-14-3323-25Wipe	Lead Dust Wipe - Rec Room at Wall with Wall Hangings	12" X 12"
ECG-14-3323-26Wipe	Lead Dust Wipe - Classroom at Floor	12" X 12"
ECG-14-3323-27Wipe	Lead Dust Wipe - Classroom at Table	12" X 12"
ECG-14-3323-28Wipe	Lead Dust Wipe - Classroom at Shelf	12" X 12"
ECG-14-3323-29Wipe	Lead Dust Wipe - Classroom at Heater	12" X 12"
ECG-14-3323-30Wipe	Lead Dust Wipe - Kitchen at Floor	12" X 12"

**Delivered by:** Fed Ex PO- **Date:** 11/17/14 **Time:** 3:30 PM
**Received by:** \_\_\_\_\_ **Date:**  / / **Time:** \_\_\_\_\_ **AM/PM**

**BULK MATERIAL Analysis Request**

**LEAD WIPE SAMPLING**

4200 Rocklin Road, Suite 7  
 PHONE (916) 632-6800  
 FAX (916) 632-6812  
 mainoffice@entekgroup.com

**Date of Sampling:** November 17, 2014

**Lab:** Forensic Analytical Laboratories

**Job Number:** 14-3323

**Turnaround Time:** Wednesday, 11/19/14 by 5:00PM

**Client Name:** PARC Specialty Contractors

**Collected by:** Blake Howes

**Site Address:** Mangan Gun Range  
 2140 34<sup>th</sup> Avenue  
 Sacramento, CA

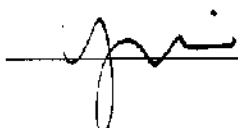
**Analysis Conducted:** Lead by Atomic Absorption Spectrometry

**Special Instructions:** Please email results to [mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com) & [Bhowes@entekgroup.com](mailto:Bhowes@entekgroup.com) as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-31Wipe	Lead Dust Wipe - Kitchen at Serving Area	12" X 12"
ECG-14-3323-32Wipe	Lead Dust Wipe - Kitchen at Microwave Top	12" X 12"
ECG-14-3323-33Wipe	Lead Dust Wipe - Kitchen at Pots on Shelf	12" X 12"
ECG-14-3323-34Wipe	Lead Dust Wipe - Stat Office at Floor	12" X 12"
ECG-14-3323-35Wipe	Lead Dust Wipe - Stat Office at Table	12" X 12"
ECG-14-3323-36Wipe	Lead Dust Wipe - Stat Office at Shelf	12" X 12"
ECG-14-3323-37Wipe	Lead Dust Wipe - Roof at Center Field	12" X 12"
ECG-14-3323-38Wipe	Lead Dust Wipe - Roof at Vent Exhaust	12" X 12"
ECG-14-3323-39Wipe	Lead Dust Wipe - Roof at Top of Exhaust Fan Housing	12" X 12"

Z:\Clients\PARC Specialty Contractors\14-3323 Mangan Gun Range - Indoor Firing Range - Lead\Lead Wipe\LeadWipeRpt 11-24-14CC.wo

**Delivered by:** Fed Ex PO- \_\_\_\_\_ **Date:** 11/17/14 **Time:** 3:30 PM

**Received by:**  \_\_\_\_\_ **Date:** 11/18/14 **Time:** 1 AM/PM



**BULK MATERIAL Analysis Request**

**LEAD WIPE SAMPLING**

4200 Rocklin Road, Suite 7  
PHONE (916) 632-6800  
FAX (916) 632-6812  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** November 17, 2014

**Lab:** Forensic Analytical Laboratories

**Job Number:** 14-3323

**Turnaround Time:** Thursday, 11/20/14 by 5:00PM

**Client Name:** PARC Specialty Contractors

**Collected by:** Blake Howes

**Site Address:** Mangan Gun Range  
2140 34<sup>th</sup> Avenue  
Sacramento, CA

**Analysis Conducted:** Lead by Atomic Absorption Spectrometry

**Special Instructions:** Please email results to [mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com) & [Bhowes@entekgroup.com](mailto:Bhowes@entekgroup.com) as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE FEET)
ECG-14-3323-40WIPE	BLANK	N/A

Z:\Clients\PARC Specialty Contractors\14-3323 Mangan Gun Range - Indoor Firing Range - Lead\Lead Wipe\LeadWipeRqt 11-24-14 blank.wpd

Delivered by: Fed Ex PO- Post Date: 11/18/14 Time: 11:30 PM

Received by: [Signature] (FX) Date: 11-19-14 AM 1:02 Time: AM/PM



Classroom



Classroom



Kitchen





Kitchen



Kitchen



Kitchen



Rec Room



Rec Room



Main Entry





Firing Range



Firing Range



Locker Room



Locker Room





Firing Range



Under bullet trap with spent bullets



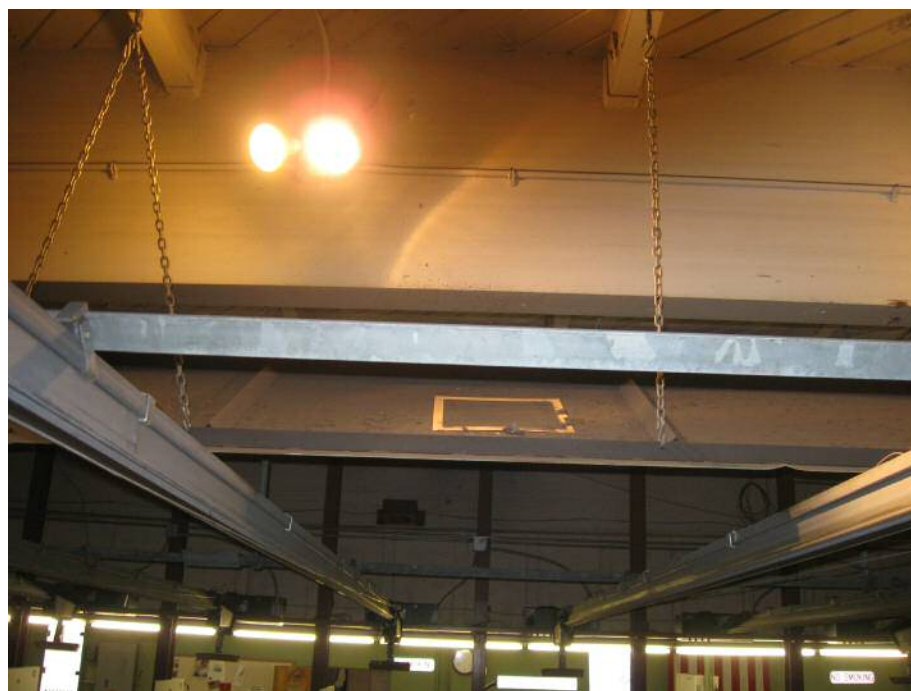
Firing Range - sampling one square foot of floor surface



Firing Range - sampling one square foot at shelf

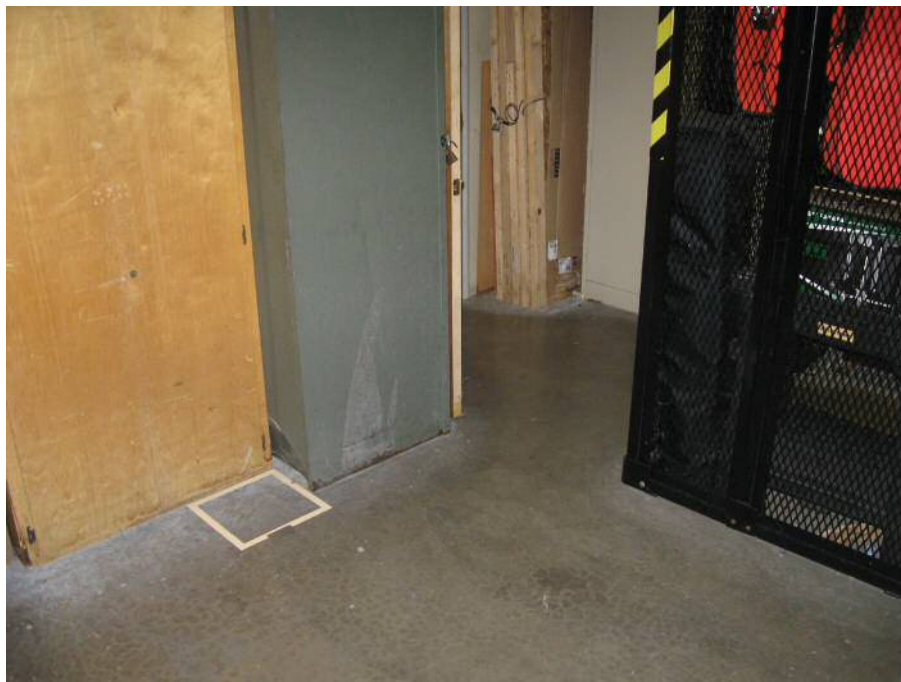


Firing Range - sampling of bleacher seat



Firing Range - sampling of horizontal surface of deflection plate near the ceiling





Locker Room – sampling floor surface



Locker Room - sampling surface of shooting mats



Main Entry - sampling surface of desk



Rec Room - sampling surface of couch



Rec Room - sampling surface of chair



Rec Room - sampling surface of wall with items attached





Classroom - sampling table top surface



Kitchen - sampling top surface of microwave oven



Stat office - sampling floor surface



Roof - sampling surface of roof in middle of roof "field"





Roof above Range - sampling top surface of exhaust fan



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### **Forensic Analytical Laboratories, Inc.**

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: 101762

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### **LABORATORY ACCREDITATION PROGRAMS**

- |                                      |                                   |
|--------------------------------------|-----------------------------------|
| ✓ <b>INDUSTRIAL HYGIENE</b>          | Accreditation Expires: 08/01/2016 |
| ✓ <b>ENVIRONMENTAL LEAD</b>          | Accreditation Expires: 08/01/2016 |
| ✓ <b>ENVIRONMENTAL MICROBIOLOGY</b>  | Accreditation Expires: 08/01/2016 |
| <input type="checkbox"/> <b>FOOD</b> | Accreditation Expires:            |
| ✓ <b>UNIQUE SCOPES</b>               | Accreditation Expires: 08/01/2016 |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

Gerald Schultz, CIH  
Chairperson, Analytical Accreditation Board

Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014

Date Issued: 04/30/2014





## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

### Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**

Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

### Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: **03/01/1990**

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
<b>Chromatography Core</b>	Ion Chromatography (IC)		NIOSH 7903	
			OSHA ID 215 v2	
<b>Spectrometry Core</b>	Atomic Absorption	CVAA	NIOSH 6009	
			OSHA ID-140	
			OSHA ID-145	
		FAA	NIOSH 7082	
			OSHA ID-121	
			NIOSH 7105	
Inductively-Coupled Plasma	ICP/AES	NIOSH 7303		
		OSHA ID-125G		
UV/VIS (Colorimetric)		NIOSH 7600		
<b>Asbestos/Fiber Microscopy Core</b>	Polarized Light Microscopy (PLM)		EPA/600/M4-82-020, 1982	
			EPA/600/R-93/116, July 1993	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		EPA 600/R-93/116	SOP TEM 301
			EPA 600/R-93/116	SOP TEM 300
			EPA 600/R-93/116	SOP TEM 302
			EPA 600/R-93/116	SOP TEM 303
			EPA AHERA - 40 CFR Part 763	EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method)
			NIOSH 7402	
		Yamate Level 1		
	Yamate Level 2			

Effective: 03/12/2013

101762\_Scope\_IHLAP\_2014\_04\_30

Page 1 of 2



IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

### Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**

Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 06/26/1995**

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Paint</b>	EPA SW-846 3050B	
	EPA SW-846 7420	
<b>Soil</b>	EPA SW-846 3050B	
	EPA SW-846 7420	
<b>Settled Dust by Wipe</b>	HUD App. 14.2	IN HOUSE METHOD
	NIOSH 7082	
	NIOSH 9100	
	OSHA ID-105 Modified	
<b>Airborne Dust</b>	NIOSH 7082	
	NIOSH 7105	
	NIOSH 7303	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

**Forensic Analytical Laboratories, Inc.**  
3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**  
Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

### Environmental Microbiology Laboratory Accreditation Program (EMLAP)

**Initial Accreditation Date: 11/01/2003**

EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Fungal</b>	Air - Culturable	SOP IAQ 100	Analysis of Viable Air Samples for Identification of Fungal Mycota
	Bulk - Culturable	SOP IAQ 103	Analysis of Viable Bulk Samples for Identification of Fungal Mycota
	Surface - Culturable	SOP IAQ 103	Analysis of Viable Bulk Samples for Identification of Fungal Mycota
	Air - Direct Examination	SOP IAQ 101	Analysis of Non-Viable Air Samples for Identification of Fungal Mycota
	Bulk - Direct Examination	SOP IAQ 102	Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota
	Surface - Direct Examination	SOP IAQ 102	Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota
<b>Bacterial</b>	Legionella	IAQ 214	Recovery of Legionellae from Swab Samples

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

**Forensic Analytical Laboratories, Inc.**  
3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**  
Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

### Unique Scopes Laboratory Accreditation Program (Unique Scopes)

**Initial Accreditation Date: 05/01/2014**

Unique Scope Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Consumer Product Testing</b>	Lead in Paint and Other Similar Surface Coatings	16 C.F.R 1303 CPSC-CH- E1003-09	MET 213
		16 C.F.R 1303 CPSC-CH- E1001.08.1	MET 214
		16 C.F.R 1303 CPSC-CH- E1002.08.1	MET 215

A complete listing of currently accredited Food laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION**

Is hereby granted to

**Forensic Analytical Laboratories, Inc.**

**Hayward Laboratory**

3777 Depot Road, #409

Hayward, CA 94545

Scope of the certificate is limited to the  
"Fields of Testing"  
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1202**

Expiration Date: **05/31/2016**

Effective Date: **06/01/2014**

Richmond, California  
subject to forfeiture or revocation

  
David Mazzera, Ph.D., Assistant Division Chief  
Division of Drinking Water and Environmental Management





CALIFORNIA DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing



**Forensic Analytical Laboratories, Inc.**

Hayward Laboratory  
3777 Depot Road, #409  
Hayward, CA 94545  
Phone: (510) 887-8828

Certificate No.: 1202  
Renew Date: 5/31/2014

**Field of Testing: 101 - Microbiology of Drinking Water**

101.060	002	Total Coliform	SM9223
101.060	003	E. coli	SM9223
101.160	001	Total Coliform (Enumeration)	SM9223
101.200	001	E. coli (Enumeration)	SM9223B

**Field of Testing: 103 - Toxic Chemical Elements of Drinking Water**

103.040	010	Lead	SM3113B
103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.160	001	Mercury	EPA 245.1
103.300	001	Asbestos	EPA 100.1
103.301	001	Asbestos	EPA 100.2

**Field of Testing: 107 - Microbiology of Wastewater**

107.242	001	Enterococci	Enterolert
107.245	001	E. coli	SM9223

**Field of Testing: 109 - Toxic Chemical Elements of Wastewater**

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7

109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.190	001	Mercury	EPA 245.1
109.370	010	Lead	SM3111B

**Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.130	001	Lead	EPA 7420
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.240	001	Corrosivity - pH Determination	EPA 9040B
114.241	001	Corrosivity - pH Determination	EPA 9045C

**Field of Testing:** 115 - Extraction Test of Hazardous Waste

115.021	001	TCLP Inorganics	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II

**Field of Testing:** 121 - Bulk Asbestos Analysis of Hazardous Waste

As of 4/27/2012, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

121.010 001 Bulk Asbestos EPA 600/M4-82-020

---

**Field of Testing:** 126 - Microbiology of Recreational Water

---

126.050 001 Total Coliform and E. coli SM9223

---

126.080 001 Enterococci IDEXX

---

## LEAD HAZARD EVALUATION REPORT

**Section 1 – Date of Lead Hazard Evaluation** November 17, 2014

**Section 2—Type of Lead Hazard Evaluation** (Check one box only)

Lead Inspection       Risk Assessment       Clearance Inspection       Other (specify) \_\_\_\_\_

**Section 3—Structure Where Lead Hazard Evaluation Was Conducted**

Address [number, street, apartment (if applicable)] 2140 34 <sup>th</sup> Avenue	City Sacramento	County Sacramento	Zip Code 95822
Construction date (year) of structure  Early 1960's	Type of structure (check one box only) <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single Family Dwelling <input checked="" type="checkbox"/> Other (specify) <u>Rifle &amp; Pistol Range</u>		


**Section 4—Owner of Structure** (If business/agency, list contact person)

Name City of Sacramento Parks Department - Lori Bauder	Telephone Number (916) 808-1196		
Address [number, street, apartment (if applicable)] 5730 24 <sup>th</sup> Street Bldg. 12	City Sacramento	State California	Zip Code 95822

**Section 5—Results of Lead Hazard Evaluation** (Check all that apply)

No lead-based paint detected.       Lead-based paint detected.  
 No lead hazards detected.       Lead hazards detected.

**Section 6—Individual Conducting Lead Hazard Evaluation**

Name Blake Howes	Telephone Number (916) 632-6800		
Address [number, street, apartment (if applicable)] 4200 Rocklin Road, Suite 7	City Rocklin	State CA	Zip Code 95677
CDPH certification number 23951	Signature 	Date 11-20-14	

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

N/A

**Section 7—Attachments**

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, indicating laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed to:

California Department of Public Health  
 Childhood Lead Poisoning Prevention Branch Reports  
 850 Marina Bay Parkway, Building P, Third Floor  
 Richmond, CA 94804-6403  
 FAX: (510) 622-5656

State of California Department of Public Health

Lead-Related  
Construction  
Certificate

Certificate  
Type

Expiration  
Date

Inspector/Assessor 09/10/2015



Blake W. Howes

ID #: 23951

State of California  
Division of Occupational Safety and Health  
**Certified Asbestos Consultant**

**Richard A Beall**



Name

Certification No. **92-0032**

Expires on **07/07/15**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related  
Construction  
Certificate

Certificate  
Type

Expiration  
Date



<b>Inspector/Assessor</b>	<b>04/19/2015</b>
<b>Project Designer</b>	<b>04/19/2015</b>
<b>Project Monitor</b>	<b>04/19/2015</b>

**Richard A. Beall**

**ID # 769**