ENVIRONMENTAL CONSULTING SERVICES
UC-ANR INTERMOUNTAIN RESEARCH AND EXTENSION CENTER
TULELAKE, CA 96134

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1.0 EXECUTIVE SUMMARY

Millennium Consulting Associates (Millennium) performed a campus-wide hazardous materials survey at Intermountain Research Center for the University of California Agriculture & Natural Resources (UC ANR in accordance with the scope of work determined by UC ANR to include the investigation, assessment and testing of materials in facilities that are known to have asbestos and lead paint, as well as other aged facilities that may have residual hazardous matearials. The project is being conducted to determine the existence of Asbestos Containing Materials (ACM) in specified buildings. The lead and polychlorinated biphenyl (PCB) component of the survey are for hazardous communication notification, waste profiling, and disposal purposes for contractors and subcontractors as needed for planned future projeccts. In addition, a quantification was conducted of other regulated materials (fluorescent light tubes, potential PCB-containing light ballasts, exit signs, etc.) within interior and exterior areas of the buildings surveyed. Millennium also collected soil samples from select areas to survey for petroleum hydrocarbons and/or pesticides. Millennium collected soil samples from select areas to survey for petroleum hydrocarbons and/or pesticides. The results of the asbestos, lead, PCBs and soil survey are incorporated into this report, providing a means for the UC ANR to more efficiently plan for repairs and renovation projects.

The following buildings were included in the scope of the hazmat materials survey for the Intermountain site: 101, 102, 103, 104, 202, 203, 204, 205, 206, 207, 208, 209, 301, 302, 307, the Kenyon Pump House and The Mint Still.

The following buildings were included in the scope of the soil sampling survey: Building 205, pesticide storage; Building 206, seed-repair shop, and Building 207, equipment storage.

Table 1.1 summarizes the positive survey results for the buildings (>1% ACM and >0.1% ACCM).

Table 1.1. Survey Summary of Building Materials with Asbestos

Building	Summary of Positive Results
101	• Grey 12" x 12" Vinyl Floor Tile & Black Mastic – Break room Storage (CAT I) • Drywall System – Throughout (ACCM)
102	• Drywall System – Throughout (ACCM)
202	• Black Floor Mastic – East Exterior (CAT I)
203	• Cement "Transite" Wall Panels – Base of Walls (CAT II)
206	• White/Grey Caulk – Exterior Main Door (CAT I) • Drywall System – Throughout (ACCM) • Cement "Transite" Walls Panels – Restroom (CAT II, warning label)

Building	Summary of Positive Results
301	• Drywall System – Throughout (ACCM) • Black Mastic behind Wood Wall Panels – Bedrooms (CAT I) • Beige 12" x 12" Vinyl Floor Tile – Hallway Closets (CAT I) • White 12" x 12" Vinyl Floor Tile – Bedrooms, Under Carpet (CAT I)
Note: Please refer to the drawings in Appendix F for the ACM and ACCM homogenous area (HA#) locations.	

Table 1.2 summarizes the positive lead survey results for the buildings (>5,000 ppm lead based paint, and ≤ 5,000 ppm lead containing paint).

Table 1.2. Survey Summary of Positive Lead Results

Building	Summary of Results
101	• White paint on Drywall – Interior Primary (LCP) • Dark Grey paint on Wood – Interior Door Trim (LCP) • Lt. Grey paint on Wood – Interior Door Trim (LCP) • Red paint on Wood – Exterior Front Signage (LCP)
102	• White paint on Wood – Interior Door Trim (LCP) • Beige paint on Wood – Exterior Primary (LCP)
103	• Yellow paint on Wood – Exterior Door Trim (LCP)
202	• White paint on Drywall – Interior Primary (LBP) • White paint on Wood – Interior Door Frame Trim (LBP) • Yellow paint on Wood – Exterior Trim (LBP) • Grey paint on Metal – Exterior Door Trim (LBP)
203	• Yellow paint on Wood – Exterior Window Sill (LCP) • Grey paint on Wood – Interior South Wall (LBP)
204	• White paint on Wood – Inteiror Primary (LCP)
207	• White paint on Wood – Interior Primary (LCP)
208	• Beige paint on Wood – Interior Primary (LCP) • White paint on Wood – Exterior Entry Door (LCP)
301	• White paint on Wood – Interior Kitchen Cupboards (LCP)
TMS	• Grey paint on Metal – Mint Still Building, Fuel Tanks (LCP)
Note: Please refer to the drawings in appendix F for the sample locations.	

Survey Summary of PCB Results

A total of seven (7) suspect PCB samples were collected for analysis from all surveyed structures.

- No PCBs above the regulatory threshold were identified during this survey.

Please refer to the drawings in appendix F for the sample locations.

Survey Summary of Soil Results

Table 1.3 summarizes the positive survey results for total petroleum hydrocarbons (TPH) as diesel (TPHg) and as motor oil (TPHmo) in soil inside building 207. Positive results are compared to relevant San Francisco Bay Regional Water Quality Control Board (SF-RWQCB) Soil Environmental Screening Levels (ESLs), gross contamination, direct exposure to construction worker and residential, and leaching to groundwater ESLs.

Table 1.3. Survey Summary of Positive Soil Sampling Results

Building	Summary of Results
Inside the Building 207	• Soil concentration greater than direct exposure Commercial/Industrial ESL – TPHg • Soil concentration greater than diresct exposure reisdential ESL – TPHmo
Exterior Building 205	• Soil concentration greater than leaching to groundwater and direct exposure reisdential ESLs – Dieldrin • Soil concentration greater than leaching to groundwater ESL – Hexachlorobenzene • Soil concentration greater than direct exposure Commercial/Industrial ESL – Toxaphen

Note: Please refer to drawings in Appendix G for the soil sample locations.

Survey Summary of Pesticide Results

No pesticides or herbicides were identified during this Survey.

2.0 INTRODUCTION

Millennium conducted a hazmat survey for the UC ANR from June 14-16, 2021. This survey included sampling of suspect asbestos, lead, and PCB building materials and soils for hazardous communication notification purposes for contractors and subcontractors, as well as a quantification of other regulated materials. The Intermountain Research & Extension Center campus is located at 2816 Havlina Rd, Tulelake, CA 96134. The survey included multiple buildings throughout the campus. The buildings included the scope of the asbestos survey are: 101, 102, 103, 104, 202, 203, 204, 205, 206, 207, 208, 301, 302, 307, the Kenyon Pump House and The Mint Still. Areas in and around buildings 205, 206, and 207 were included in the scope for soil sampling for TPH and pesticides. Areas in and around buildings 205 and 207 were included in the scope for soil sampling for TPH and pesticides.

The results of the survey will provide a means for the UC ANR to more efficiently plan for repairs, and renovation projects. The results are intended to be used for renovation scope of work development and complicance determiniations with agencies such as Siskiyou County Air Pollution Control District (SCAPCD), Cal/OSHA, DTSC and others.

2.1 SCOPE OF WORK

The scope of work for the project included the submission of two (2) deliverable items. The required submittals and their approval dates included:

1. Survey Report
2. Sample Location Drawings

The hazmat survey tasks included reviews of historical records and data, site visits, collection of representative samples, assessment of the condition of the materials, and quantification of the asbestos-containing materials throughout the specified buildings. In accordance with the project requirements, samples were not taken if it rendered the material unstable, had the potential to cause leaking or other deterioration of the base material or if the sampling posed a hazard to those working in and around the building. Soil samples were collected exclusively in areas identified by University of California Agriculture and Natural Resources (UCANR) with possible historical TPH or pesticide sources.

The reporting requirements also include sample location maps in pdf format, indexed schedule of samples, and a narrative on the methodology of the survey.

2.2 SAMPLING METHODS, PROCEDURES, AND PERSONNEL

A detailed sampling and analysis plan was prepared for the site survey. The asbestos survey was performed using general procedures and protocols defined in EPA 40 CFR, part 763.86. The asbestos analyses were performed at an independent 3rd party accredited laboratory using the EPA 600/R-93/116 method. Additional confirmation analyses were performed, when necessary (e.g., point counting). All locations within the scope of work were physically inspected and categorized (i.e., NESHAP categories), homogeneous area-by homogeneous area, to determine the presence of ACM.

Millennium personnel held valid Cal/OSHA licenses for the respective type of work they performed. These asbestos specific licenses included: Certified Asbestos Consultants (CAC) and Certified Site-Surveillance Technicians (CSST). The lead specific certifications include: CDPH Certified Lead Inspector/Assessor, and CDPH Certified Lead Sampling Technician. The field staff and their respective certifications that performed site assessment activities are:

1. Alain Grissette (Cal/OSHA Certified Asbestos Consultant #07-4300, CDPH Inspector/Assessor No. 18206)

2. Kristy Efe (EPA Asbestos Inspector 48025 IR, CDPH Lead Sampling Technician #LRC-07023)

Soil sampling was performed under the supervision of a California licensed professional (PG).

2.2.1 Review of Procedures: Asbestos Inspection, Bulk Sampling, and Laboratory Information

The asbestos inspection and bulk sampling procedures were based on the guidelines established by the U.S. EPA in the *Guidance for Controlling Asbestos Containing Materials in Buildings*, Office of Pesticides and Toxic Substances, DOC #560/5-85-024 and 40 CFR Part 763.86, Asbestos Hazard Emergency Response Act (AHERA). Field information is organized according to the AHERA concept of Homogeneous Areas (HA). A HA is defined as a suspect material of similar age, appearance, function, and texture. Each material will be grouped together as a specific HA, sampled, and then assessed for disposal and worker protection criteria. The AHERA guidelines represent an industry standard sampling protocol and as such was utilized during the inspection and sampling. For the purposes of inspections, suspect ACM is placed in three (3) material categories: Thermal Systems Insulation (TSI); Surfacing Materials; or Miscellaneous Materials. After the AHERA-related sampling and receipt of results, ACM is further categorized into their respective NESHAP categories for waste management. The NESHAP categories are: Regulated ACM; Category I Non-Friable ACM; or Category II Non-Friable ACM.

The locations within the buildings are physically inspected on a functional space-by-space and homogeneous area-by-homogeneous area basis, to determine the presence of ACM. Core samples of friable and non-friable suspect materials are collected by penetration of the suspect material to its substrate. The bulk samples collected are placed in individual sealed containers and labeled with unique sample identification numbers. Representative samples of each sampling area are then submitted to the laboratory to be analyzed for asbestos content.

The inspection will report the following:

1. Visual determination as to the extent of visible and accessible suspect materials and conditions of the material.
2. Results of the collection and analyses of suspect building materials for asbestos content.
3. Quantification of the amount of suspect friable and non-friable materials along with their location.

4. Identification of all suspect materials sampled on the appropriate building floor plan diagram with the sample number; and
5. Preparation of a Chain-of-Custody form that accompanied the samples to the laboratory.

Chain-of-Custody procedures and records provide a means of tracing each sample from the time of collection through the shipment and final analyses. Proper Chain-of-Custody procedures also provide a written record of all persons handling the samples. The information necessary to relate sample locations for reporting purposes is documented with each sample. This information is essential to proper completion of a sample results report and typically includes client and facility information; unique sample identification number; date and time sampled; sampler name and signature; sample location including the room/area; and field sketches of sample locations.

All asbestos, lead and PCB analyses were performed by EMSL Analytical Inc., San Leandro, CA and Cinnaminson, NJ, both are certified by the State of California Environmental Laboratory Accreditation Program (CA ELAP No. 2689 and 1877), the American Industrial Hygiene Association's Laboratory Accreditation Program (AIHA-LAP No. 101650 and 100194) and is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP No. 102104-0 and 101048-0) for bulk asbestos analyses. The laboratory typically retains the samples for sixty (60) days in the event re-analyses of samples are required. All disposal of samples by the laboratory will be compliant with established Federal, state, and local regulations.

2.2.2 Review of Procedures: Lead Inspection and Regulations, Bulk Sampling, and Laboratory Information

For this survey, the inspector collected paint-chip samples for analysis. The samples are analyzed by a laboratory recognized under the EPA's National Lead Laboratory Accreditation Program (NLLAP) for analysis of lead in paint and collected in accordance with the HUD guidelines and/or ASTM E1729, *Standard Practice for Field Collection of Dried Paint Samples for Subsequent Lead Determination*, or equivalent bulk sampling methods. Paint-chip samples contain all layers of paint (not just peeled layers) and includes the bottom layer. Paint from approximately 4-square inches provide enough quantity for laboratory analysis. Smaller surface areas may be used, but only if the laboratory indicates that a smaller sample is acceptable. Some coating types (e.g. powder coats) are difficult to sample; this may result in laboratory level of detections (LOD) greater than 90ppm, the threshold for "lead safe" material. The lead coating inspection and bulk sampling procedures are based on the guidelines established by the U.S. EPA Housing and Urban Development's (HUD) in its most current version of the *Guidelines for the Evaluation and Control of Lead-based Paint in Hazards in Housing.*

The lead survey for this project is limited in scope and does not constitute a surface-by-surface investigation as defined in HUDs Guidance document or the CA Department of Public Health's Title 17 Accreditation, Certification, and Work Practices for Lead-Based Paint Hazards §35038. The purpose of this lead inspection is to identify coatings that require lead-safe work practices, handling, and/or disposal during potential modernization projects of the campus. While the HUD Guidelines and Title 17 define "lead-based paint" and provide work practice standards, Cal/OSHA's Lead in Construction Standard 8 CCR 1532.1 regulates any occupational exposure to lead. It is important to understand that Cal/OSHA does not give a regulatory definition of a "lead-containing material." Cal/OSHA and Federal OSHA are concerned with "an employee occupationally exposed to lead." This

is understood to mean material disturbed during construction work containing lead in any amount (i.e., lead-containing paint and lead-based paint) is covered under the lead in construction standard. Additionally, Federal OSHA has determined that the uses of XRF data and/or bulk sampling data (e.g., paint chips) are not acceptable for predicting employee exposures to lead. This fact means that contractors cannot use XRF data, paint chip data, or bulk sample data as a surrogate for employee exposures during construction work (or the bidding process) as defined in 8 CCR 1532.1(a).

Current California and Federal regulations do mandate generators determine if a waste is hazardous or non-hazardous by testing representative samples of the waste. The total lead by Total Threshold Limit Concentration (TTLC), California WET-method Soluble Threshold Limit Concentration (STLC), and Toxicity Characteristic Leaching Procedure (TCLP) analyses should be performed to characterize each waste stream as Federal RCRA hazardous waste, California hazardous waste, or as construction debris.

The waste stream must be handled as RCRA environmentally hazardous waste if TCLP lead levels exceed 5.0 milligrams per liter (mg/l), or as California hazardous waste if TTLC lead exceeds 1,000 milligrams per kilogram (mg/kg), and/or STLC lead exceeds 5.0 mg/l, respectively. By calculation, if a sample analyzed for lead by TTLC is found to contain less than 50 mg/kg, then the waste stream represented by the sample result is non-hazardous by definition (a completely soluble waste at this concentration would produce a TCLP lead concentration of less than 5.0 mg/l). Similarly, total lead less than 50 mg/kg will generally produce an STLC lead concentration of less than 5.0 mg/l.

2.2.3 Review of Procedures: PCB Inspection, Bulk Sampling, and Laboratory Information

In addition to lead paint and asbestos, buildings can contain other regulated materials that are considered hazardous. Polychlorinated Biphenyl's (PCB) were used in a variety of commercial products. These products can be broadly placed into one of three categories: closed applications (e.g., transformers or capacitors); partially closed applications (e.g., hydraulic fluids); and other uses (e.g., adhesives, pesticides, paints, caulks/sealants).

The purpose of this survey was to determine if PCBs are present in caulking and sealants within the buildings in the scope of work. Currently, there are no federal requirements for a building owner to conduct bulk sampling prior to renovations. However, the Toxic Substances Control Act (TSCA) does require materials to be characterized prior to their disposal if PCB wastes are generated. If PCB materials are identified, then, specific actions may be required including classification of PCB materials as either Bulk Product Waste, PCB Remediation Waste, or an Excluded Product. The classification of the material (e.g., bulk product waste for a demolition vs. remediation waste for a renovation) will define the scope of work and whether Federal or state agencies require approval or notification prior to the PCB disturbance activities.

There are no recognized PCB inspector certifications. However, it is reasonable given the scope of work for renovation surveys to include the PCB sampling and analysis of suspect building materials. Similar to the AHERA asbestos sampling methodology, PCB caulking and sealants were sampled based on the homogeneity, of the material as seen during the visual assessment. Additional assessments may be warranted and depend upon the initial sampling analysis. If the PCB-containing materials were installed on a porous system (e.g., concrete), then sampling to determine if PCBs migrated into the concrete will be required for a full and complete characterization.

2.2.4 Review of Procedures: Soil Inspection, Grab Sampling for TPH/pesticides, and Laboratory Information

The soil survey targeted locations with previous or existing above or underground fuel/waste oil storage containers or tanks, truck and machinery parking garages, pesticide or chemical facility storage and mixing facilities. UCANR identified these historical conditions and selected buildings to include in the soil survey.

Millennium conducted a walk through the site to inspect the potentially impacted soil in the buildings and vicinity. Representative sampling locations were selected in areas with visually identifiable impacts, or using a grid pattern where impacts were not observed. Grab soil samples were collected from a depth of 0 to 3" below ground surface using hand tools to break up the surface soil and place in individual laboratory provided jars. The jars were labeled, placed on ice in an insulated cooler, and transported under chain of custody protocol to Pace National Laboratory a state-certified analytical laboratory.

All soil analyses were performed by Pace Analytical, Mount Juliet, Tennessee, a laboratory which is certified by the State of California Environmental Laboratory Accreditation Program (CA ELAP No. 2932), and the American Industrial Hygiene Association's Laboratory Accreditation Program (EMLAP No. 101789). All disposal of samples by the laboratory will be compliant with established Federal, state, and local regulations.

3.0 SITE HISTORY AND BUILDING SUMMARY

The Intermountain Research and Extension Center (IREC) was established in 1947 via a cooperative agreement between the US Bureau of Reclamation, the University of California and the Tulelake Growers Association, with the intent being to "develop information relating to practices that will promote soil and moisture conservation on public and private lands, and general information relating to farm problems in the area.". What began as a small, eleven acre demonstration farm has grown into a 140 acre center for innovative research, local and national meetings, and as an educational resource for local communities.

Current research is focused on irrigated field and vegetable crops; the development of new crop varieties; weed, insect and disease management; irrigation and water conservation; and plant fertility. Currently there are a total of 19 free standing buildings used as offices, greenhouses, a single-family residence, laboratories, warehouses, storage facilities, and sheds.

While 100% design drawings have not been reviewed by Millennium, the buildings and the anticipated work for the buildings include:

Building Name	Proposed Work
Bldg. 101	Modernization
Bldg. 102	Modernization
Bldg. 103	Modernization
Bldg. 104	Modernization
Bldg. 202	Modernization
Bldg. 203	Modernization
Bldg. 204	Modernization
Bldg. 205	Modernization
Bldg. 206	Modernization
Bldg. 207	Modernization
Bldg. 208	Modernization
Bldg. 301	Modernization
Bldg. 302	Modernization
The Kenyon Pump House	Modernization
The Mint Still	Modernization

4.0 Asbestos, Lead, and PCB Survey Results

The objective of this campus-wide hazardous materials survey is to (1) Identify, document and sample suspect ACM, lead, and PCBs; and (2) Report, assess, and quantify all ACM, lead and PCBs discovered during the survey.

Data Results

A total of ninety-eight (98) bulk samples were collected with one hundred forty-seven (147) individual layers using polarized light microscopy (PLM), with an additional seven (7) 400-point count reanalyses conducted on postitive samples with trace concentrations of asbestos.

A total of thirty (30) suspect lead samples were collected and analyzed using Flame AA method.

A total of seven (7) suspect PCB samples were collected and analyzed using EPA Method 3540C/8082.

The following sections lists the positive building materials identified, sampled, and analyzed during this investigation. The EPA Category and Quantification of each ACM is given in the first table for each building. The lead results are given in the second table for each building, and the PCB results are given in the third table for each building.

Please refer to the laboratory data in Appendices B, C & D for the complete analytical details. Also refer to Section 5.0 for recommendations. Every reasonable effort was made to access all areas within the scope of work.

Building 101

Building 101 is referenced as the office & laboratory building and is located in the center of the Intermountain Research & Extension Center (IREC) campus. It is an office building that occupies approximately 1,674 gross square feet. The building consists of a laboratory space, dining room, storage and mostly office spaces for administrative activities. The flooring consists of a mix of vinyl flooring and laminate flooring throughout. The walls consist of drywall systems within the building along with acoustical ceiling tiles. The exterior walls are comprised of metal siding on a cement foundation, and a pitched metal roof.

According to the IREC Asbestos Inventory updated in January 2020 and confirmed by the onsite representative, building 101 has ACM flooring residing under newly installed laminate flooring, and should be considered present throughout the structure. The materials sampled in this building include:

- Drywall System
- Various 4" Cove Base & Mastic
- Grey 12" x 12" Vinyl Floor Tile & Mastic
- Flooring Sublayer & Black Mastic
- Window Caulking
- Acoustic Ceiling Tiles (1" x 1" w/ wormholes)
- White Roof Penetration Mastic
- Various paints

Table 4.1. Summary of materials identified as containing asbestos in Building 101

Sample No.	Lab Report No.	Sample Location	Material Description	Asbestos Content	EPA Category	OSHA Class	Estimated Quantity
T101-A1 & A2	022104742	Through-out	Drywall System (Composite)	0.25-0.50%*	N/A	Unclassified	NQ *(Throughout)*
T101-A9 & A10	022104742	Dining Room, Storage	Sublayer Flooring Tile & Black Mastic	Tile: 10% Mastic: 2%	I	II	NQ *(Throughout)*

♦ Point count analysis was performed on composite of drywall and asbestos-containing joint compuond. The point count analysis can be referenced in appendix B.

Table 4.2. Summary of materials identified as lead based paint (LBP) and lead-containing paint (LCP) in Building 101

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T101-Pb1	Interior Primary	White	Drywall	310	LCP
T101-Pb2	Interior Door Trim	Dark Grey	Wood	<300	LCP
T101-Pb3	Interior Door Trim	Light Grey	Wood	240	LCP
T101-Pb4	Exterior Front Signage	Red	Wood	<200	LCP

No PCBs were identified above the regulatory threshold from the building 101 during this survey.

ORMs observed within building 101 were limited to forty (40) fluorescent light tubes and twenty (20) light ballasts.

Building 102

Building 102 is referenced as the potting shed and greenhouse in the center of the Intermountain Research & Extension Center campus, and totals 1,277 square feet. The structure has concrete walking areas within the greenhouse while the potting shed consists of metal siding and a pitched metal roof.

According to the IREC Asbestos Inventory updated in January 2020, building 102 has ACM pipe lagging in the walls of the potting shed; Millennium inspectors could not locate any pipe lagging from accessible locations within the potting shed, and it should be considered present within the walls of the structure. The materials sampled in this building include:

- Drywall System
- Cement Pads
- Cement "Transite" Pipe
- Concrete foundation
- White Paint (IT Shed)

Table 4.3. Summary of materials identified as containing asbestos in Building 102

Sample No.	Lab Report No.	Sample Location	Material Description	Asbestos Content	EPA Category	OSHA Class	Estimated Quantity
T102-A1 & A2	022104742	Through-out	Drywall System (Composite)	0.50%*	N/A (ACCM)	II	NQ *(Throughout)*

♦ Point count analysis was performed on composite of drywall and asbestos-containing joint compuond. The point count analysis can be referenced in appendix B.

Table 4.4. Summary of materials identified as lead based paint (LBP) and lead containing paint (LCP) in Building 102

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T102-Pb2	Interior Door Frame Trim	White	Drywall	610	LCP
T102-Pb3	Exterior Primary	Beige	Wood	230	LCP

No PCBs were identified in the materials sampled in building 102 during this survey.

ORMs observed within building 102 were limited to nine (9) fluorescent light tubes and six (6) light ballasts.

Buildings 103 & 104

Building 103 is a large multipurpose building referenced as the potato research facility, and totals approximately 1,440 gross square feet. The building materials consist of metal roofing and siding, and cement floor.

In addition, building 104 is an addition to building 103 on the south side and consists of metal roofing andsiding. The materials sampled in this building include

- Cement Pads
- White Wall Caulking
- Various Paints

No asbestos was identified in the samples collected from buildings 103 & 104 during this survey.

Table 4.5. Summary of materials identified as lead based (LBP) and lead containing paint (LCP) in Buildings 103 & 104

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T103-Pb1	Exterior Door Trim	Yellow	Wood	<110	LCP

No PCBs were identified in the materials sampled in buildings 103 & 104 during this survey.

ORMs observed within building 103 were limited to ten (10) fluorescent light tubes and five (5) light ballasts.

Building 202

Building 202 is referenced as the potato cellar & glass house and totals 1,200 square feet. The building consists of the metal siding and a pitched metal roof. The materials sampled in this building include:

- Drywall System
- Cement Wall
- Drying Closet Wall Panels
- Black Floor Mastic
- White Caulking
- Brown Caulking
- Cement Pad

Table 4.6. Summary of materials identified as containing asbestos in Buildling 202

Sample No.	Lab Report No.	Sample Location	Material Description	Asbestos Content	EPA Category	OSHA Class	Estimated Quantity
T202-A7 & A8	022104742	East Floor	Black Mastic	10%	I	II	~20 sq. ft.

Table 4.7. Summary of materials identified as lead based paint (LBP) and lead containing paint (LCP) in Building 202

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T202-Pb1	Interior Primary	White	Drywall	51,000	LBP
T202-Pb2	Interior Door Trim	White	Wood	30,000	LBP
T202-Pb3	Exterior Wood Trim	Yellow	Wood	60,000	LBP
T202-Pb4	Exterior Metal Fixture Above Doors	Grey	Metal	37,000	LBP

No PCBs were identified in the materials sampled in building 202 during this survey.

ORMs observed within building 202 were limited to twelve (12) fluorescent light tubes and nine (9) light ballasts.

Building 203

Building 203 is referenced as the shop and machinery storage and is located in the center of the Intermountain Research & Extension Center campus and totals 2,313 square feet. The building consists of the metal roof and siding, interior wood construction and a cement pad.

According to the IREC Asbestos Inventory updated in January 2020 and confirmed by the onsite representative, building 203 has ACM transite wall panels; these panels were observed to not have warning labels, and were sampled to confirm asbestos-content. The materials sampled in this building include:

- Window Caulking
- Cement Pad
- Cement "Transite" Wall Panel
- Various Paints

Table 4.8. Summary of materials identified as containing asbestos in Building 203

Sample No.	Lab Report No.	Sample Location	Material Description	Asbestos Content	EPA Category	OSHA Class	Estimated Quantity
T203-A5	392104850	North Room Walls	Cement "Transite" Wall Board	75%	II	II	400 sq. ft.

Table 4.9. Summary of materials identified as lead based paint (LBP) and lead-containing paint (LCP) in Building 203

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T203-Pb1	Exterior "Old" Window Sill	Yellow	Wood	330	LCP
T203-Pb2	Interior South Room	White	Wood	130,000	LBP

No PCBs were identified in the materials sampled in building 203 during this survey.

ORMs observed within building 203 were limited to sixteen (16) fluorescent light tubes and eight (8) light ballasts.

Building 204

Building 204 is referenced as the pump house and is located on the north side of the Intermountain Research & Extension Center campus and totals 64 square feet. The building consists of wood construction with a metal roof and a cement pad. The materials sampled in this building include:

- Cement Pad
- Various Paints

No asbestos was identified in the samples collected from building 204 during this survey.

Table 4.10. Summary of materials identified as lead based paint (LBP) and lead-containing paint (LCP) in Building 204

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T204-Pb1	Interior Primary	White	Wood	99	LCP

No PCBs were identified in the materials sampled from building 204 during this survey.

No ORMs were observed within building 204.

Building 205

Building 205 is referenced as the pesticide storage and is located in the center of the Intermountain Research & Extension Center campus and is approximately 800 square feet. It is a small square-shaped building and consists of steel walls and roof, with concrete flooring.

The materials sampled in this building include:

- Grey Rubber Penetration Mastic
- Cement Pads

No asbestos was identified in the materials sampled in building 205 during this survey.

No LCPs/LBPs were identified in the materials sampled in building 205 during this survey.

No PCBs were identified in the materials sampled from building 205 during this survey.

ORMs observed within building 205 were limited to two (2) fluorescent light tubes and one (1) light ballast.

Building 206

Building 206 is referenced as the seed-repair shop and is attached to the south side of building 104 and totals 2,304 square feet. The building consists of corrugated metal walls and roofing with concrete flooring.

According to the IREC Asbestos Inventory updated in January 2020 and confirmed by the onsite representative, building 206 has ACM transite wall panels at the base of most walls. These were observed to have warning labels, and were not sampled. The materials sampled in this building include:

- Drywall System
- Pink 4" Cove Base & Mastic
- White/Grey Door Caulking
- White Paint
- Cement Pad

Table 4.11. Summary of materials identified as containing asbestos in Building 206

Sample No.	Lab Report No.	Sample Location	Material Description	Asbestos Content	EPA Category	OSHA Class	Estimated Quantity
T206-A1 & A2	022104742	Storage	Drywall System (Composite)	0.50%*	N/A (ACCM)	II	NQ *(Throughout)*
T206-A7 & A8	022104742	Exterior Entry Door	White/Grey Caulking	4-5%	I	II	~10 sq. ft.
Not Sampled	*IREC Asbestos Inventory, Jan 2020*	Throughout	Cement "Transite" Wall Panels	N/A	II	II	~2,000 sq. ft.

*Point count analysis was performed on composite of drywall and asbestos-containing joint compuond. The point count analysis can be referenced in appendix B.

No LCPs/LBPs were identified in the materials sampled in building 206 during this survey.

No PCBs were identified in the materials sampled in building 206 during this survey.

ORMs observed within building 206 were limited to forty (40) fluorescent light tubes and twenty-one (21) light ballasts.

Building 207

Building 207 is referenced as the equipment storage and is located in the center of the Intermountain Research & Extension Center campus. It is a rectangular shaped building that occupies approximately 3,600 gross square feet. The building consists of open-bay warehouse storage areas. The exterior walls are corrugated metal, and the roof is corrugated metal roofing. The materials sampled in this building include:

- Cement Pad
- White Door Caulk

No asbestos was identified in the materials sampled in building 207 during this survey.

Table 4.12. Summary of materials identified as lead based paint (LBP) and lead-containing paint (LCP) in Building 207

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T207-Pb1	Interior Primary	White	Wood	<200	LCP

No PCBs identified in the materials sampled in building 207 during this survey.

ORMs observed within building 207 were limited to eight (8) fluorescent light tubes and four (4) light ballasts.

Building 208

Buildng 208 is referenced as equipment shed 2 and is located in the center of Intermountain Research & Extension Center campus. It is a large rectangular-shaped storage facility that occupies approximately 3,600 gross square feet. The building consists of a free standing metal structure with metal roofing. The materials sampled in this building include:

- Various Paints

No asbestos was identified in the materials sampled in building 208 during this survey.

Table 4.13. Summary of materials identified as lead based paint (LBP) and lead-containing paint (LCP) in Building 208

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
T208-Pb2	Interior Wood Sidng	White	Wood	130	LCP

No PCBs were identified in the materials sampled in building 208 during this survey.

ORMs observed within building 208 were limited to eight (8) fluorescent light tubes and six (6) light ballasts.

Buildings 301 & 302

Building 301 is a single-family residence located on next to the administrative building at the Intermountain Research & Extension Center campus totaling 1,394 square feet. There are plaster wall and drywall systems within the building, much of which is covered by wood paneling, along with multiple vinyl flooring systems. The exterior walls are comprised of wood panels with a pitched metal roof. There is also building 302 onsite, a 330 square foot detached wood-constructed garage with a pitched metal roof on the north side of the property. The materials sampled in this building include:

- Drywall System
- Black Wall Panel Mastic
- Cement Pads
- Various 4" Cove Base & Mastic
- Various 12" x 12" Vinyl Floor Tile & Mastic
- Beige Vinyl Floor Sheet
- Various Paints

Table 4.13. Summary of materials identified as containing asbestos in Buildings 301 & 302

Sample No.	Lab Report No.	Sample Location	Material Description	Asbestos Content	EPA Category	OSHA Class	Estimated Quantity
T301-A1, A2 & A3	022104742	Throughout	Drywall System (Composite)	0.25-0.50%*	N/A (ACCM)	II	NQ *Throughout*
T301-A4 & A5	022104742	Bedrooms	Black Wall Panel Mastic	4-5%	I	II	~900 sq. ft.
T301-A12 & A13	022104742	Hall Closets	Beige 12" x 12" Vinyl Floor Tile	2%	I	II	~30 sq. ft.
T301-A14, A15, A16, & A17	022104742	Bedrooms	White 12" x 12" Vinyl Floor Tile	2%	I	II	~400 sq. ft.

♦ Point count analysis was performed on these samples. The point count analysis can be referenced in appendix B.

No LCPs/LBPs were identified in the materials sampled in buildings 301 & 302 during this survey

No PCBs were identified in the materials sampled in buildings 301 & 302 during this survey.

ORMs observed within building 301 & 301 were limited to one (1) mercury-containing thermostat.

Building 307

Building 307 is referenced as the multipurpose building and is a newly built facility located on the south side of the Intermountain Research & Extension Center campus. The onsite representative stated the building was built within the past 5 years and requested Millennium not conduct sampling within the structure.

Millennium conducted a visual assessment and observed all building materials were intact with no damage.

ORMs observed within building 307 were limited to sixty-four (64) fluorescent light tubes and thirty-two (32) light ballasts.

Kenyon Pump House

The Kenyon Pump House was located on the east side of the campus at Intermountain Research & Extension Center campus, and consists of a metal and wood shed structure. No suspect materials or ORMs were observed; no samples collected.

With regard to the yellow paint on the metal paneling, the paint was a powder coat on the metal and the collection of paint chips was not possible. The painted metal was similar to metal paneling throughout the campus buildings. A representative sample of the actual painted metal was submitted for analysis (T203-Pb3) with a lead concentration of <80 ppm. The painted metal siding is not considered to be LCP nor LBP.

Mint Still Building

The Mint Still Building is a metal warehouse structure on on the far north side of the Intermountain Research & Extension Center campus. The building has insulation panels on the interior with cement flooring. There are above-ground fuel storage tanks on the east side of the building. The materials sampled in this buildings include:

- White/Clear Penetration Mastic
- Various Paints
- Cement Pad

No asbestos was identified in the materials sampled in the Mint Still Building during this survey.

Table 4.14. Summary of materials identified as lead based paint (LBP) and lead-containing paint (LCP) in Mint Still Building

Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
TMS-Pb1	Ext Fuel Tanks	Green	Steel	240	LCP

No PCBs above the regulatory action threshold were identified in the materials sampled in the Mint Still Building during this survey.

ORMs observed within the Mint Still building were limited to eight (8) fluorescent light tubes and four (4) light ballasts.

4.1 TPH and Pesticide Soil Survey Results

The objective of this soil survey is to (1) Identify, document and sample suspect TPH and pesticide impacts in soil; and (2) Report, assess, and quantify TPH and pesticides discovered during the survey.

Data Results

On June 16, 2021, a total of five (5) grab samples were collected from surface soil in and around the chosen buildings. Select samples were composited by the analytical laboratory to provide representative data from a larger area. A total of four (4) samples were analyzed for TPH quantified as gasoline (TPHg), TPHd, and TPHmo by EPA Method 8015M, and a total of four (4) samples were analyzed for pesticides by EPA Methods 8081, 8141, and 8151. Details of the sampling program are shown in Table 4.15 below.

Table 4.15. Soil Sampling Program

Location	Soil Sample ID (0-3 inches)	Composite/Grab	Analyses and EPA Method
207 Equipment Storage	S-01	Grab	TPHg,d,mo (8015) Oregano chlorine Pesticides (8081), Organophosphorus Pesticides (8141), and Herbicides (8151)
205 Pesticide Building, east perimeter of pesticide storage	S-02	S-02 & S-04 Composite	
205 Pesticide Building, west perimeter of pesticide storage	S-04		
205 Pesticide Building, north entrance perimeter	S-03	Grab	
205 Pesticide Building, south	S-05	Grab	

Table 4.16 below summarizes the positive survey results for TPHd and TPHmo in soil beneath and around selected buildings. The results for all soil analyses are presented in Appendix E and compared to the latest relevant SF-RWQCB ESLs for the protection of human health for various land use scenarios:

A. California SF-RWQCB Direct Exposure Human Health Risk; Construction Worker: Any Land Use/Any Depth Soil Exposure; Final ESL - Jan 2019
B. California SF-RWQCB Direct Exposure Human Health Risk; Commercial/Industrial: Shallow Soil Exposure: Final ESL - Jan 2019
C. California SF-RWQCB Direct Exposure Human Health Risk; Residential: Shallow Soil Exposure: Final ESL - Jan 2019
D. California SF-RWQCB Leaching to Groundwater Levels, Drinking Water ESL - Jan 2019
E. California SF-RWQCB Gross Contamination Levels ESL - Jan 2019

The gross contamination soil ESLs are based on the theoretical saturation level of a chemical in soil. Therefore, above these concentrations, contaminants are present as non-aqueous phase liquid (NAPL) or pure phase solids (for liquids and solids respectively) which are generally more likely to migrate.

Table 4.16. Survey Summary of Positive Soil Sampling Results Compared with Guidelines

	Guidelines			**Sample ID and Location Sampling Date: 6/16/21 Unit: mg/kg**			
Analyte	Leaching to Groundwater	Direct Exposure Comm./ Ind	Direct Exposure Residential	S-01, Bld. 207 Equipment Storage	S-COMP-02&04, 205 Bldg. east and west perimeter of pesticide storage	S-03, 205 Bldg. north perimeter of pesticide storage	S-05, 205 Bldg. southperimeter of pesticide storage
C12-C229(d)	1100	1200	260	1230	ND: 0.0496	ND	ND
C22-C32(mo)	N/A	180000	12000	19300	ND	ND	ND
Dieldrin	0.00046	0.16	0.037	NA<0.0200	0.128	0.013	0.137
Hexachlorobenzene	0.0008	0.78	0.18	NA<0.400	0.00862	0.0113	0.00737
Toxophane	250	2.2	0.51	NA	2.23	NA<0.400	NA<0.400

Guidelines:
CA SF Bay RWQCB Table S-3 Leaching to Groundwater Drinking Water ESL - Jan 2019
CA SF Bay RWQCB Table S-1 Direct Exposure Commercial/Industrial Shallow Soil Final ESL - Jan 2019
CA SF Bay RWQCB Table S-1 Direct Exposure Residential Shallow Soil Final ESL - Jan 2019

4.1.1 Soil Sample Location Summaries

The following sections list the positive soil results from the areas identified, sampled, and analyzed during this investigation. Section 5.0 presents recommendations based on the data obtained during this survey. Laboratory analytical data are presented in Appendix E. Every reasonable effort was made to access all areas within the scope of work.

Building 205

Building 205 are currenty in use as a pesticide storage shed. A total of four (4) grab soil samples were collected from around the exterior of the building with the following details:

- S-02: a descrete soil sample was collected at east perimeter of pesticide building, where a volume of foot traffic and/or equipment traffic occurs,
- S-03: a descrete soil sample was collected at north perimeter of pesticide building, where a volume of foot traffic and/or equipment traffic occurs-in and out of building,
- S-04: a descrete soil sample was collected at west perimeter of pesticide building, between building 207 and 205, where a volume of foot traffic and storage may occurs, and
- S-05: a descrete soil sample was collected at south perimeter of pesticide building, additional sampling around perimeter of pesticides storage building.

No petroleum hydrocarbon compunds were identified in the soil sampled around building 205 during this survey.

Table 4.17. Summary of soil identified as containing pesticides in Building 205

Sample No.	Sample Location	Concentration in mg/kg			Criteria exceeded
		Dieldrin	Hexachlorobenzene	Toxaphene	
S-02 & S-04	Interior of equipment storage room of shop bldg.	0.128[C]	0.00862[D]	2.23[B]	[C]Direst Exposure Residential [B]Direct Exposure Com./Idust. [D]Leaching to Groundwater
S-03	North perimeter of the pesticide building	0.013[D]	0.0113[D]	ND<0.400	[D]Leaching to Groundwater
S-05	South perimeter of the pesticide building	0.137[B]	0.00737[D]	ND<0.400	[B]Direct Exposure Residential [D]Leaching to Groundwater

Building 207

Building 207 was used as a equipment storage containing various and heavy machinery and trucks. One discrete soil sample was collected from inside the building where maintenance trucks were parked and analyzed for TPHg, TPHd, TPHmo, organochlorine pesticides, organophosphorus pesticides, and herbicides. The sample was collected from worst case scenario. It is expected the rest of the area withing the 207 building contains less contamination.

Table 4.18. Summary of soil identified as containing TPH in Building 207

Sample No.	Sample Location	Concentration in mg/kg			Criteria exceeded
		TPHg	TPHd	TPHmo	
S-01	Interior of equipment storage room of shop bldg.	<0.100	1230[C]	19300[E]	[E]Gross Cont. ESL [C]Direst Exposure Residential

No pesticides or herbicides were identified in the soil sampled around building 207 during this survey.

4.1.2 Soil Results Summary

Survey Summary of Petroleum Results

- TPH gasolene was not detected at concentrations greater than relevant ESLs.
- TPH diesel (C12-C22) was detected in samples S-01 at concentration of 1230 mg/kg. The result is greater than Direct Exposure Commercial/Industrial ESL of 1,200 mg/kg.
- TPH motor oil (C22-C32) was detected in S-01, exceeding the Direct Exposure Residential ESL of 12000 mg/kg.

Survey Summary of Pesticide Results

- Dieldrin was detected in samples S-COMP-02&04, and S-04 at concentrations of 0.128, and 0.137 mg/kg, respectively greater than Direct Exposure Residential ESL of 0.037mg/kg. Also, dieldrin was detected in soil sample S-03 at concentrations 0.013 mg/kg greater than Leaching to Groundwater ESL greater than 0.00046 mg/kg.
- Hexachlorobenzenel was detected in samples S-COMP-02&04, S-03 and S-04 at concentrations of 0.00862, 0.0113 and 0.00737 mg/kg, respectively. These results are greater than Leaching to Groundwater ESL of 0.0008 mg/kg.
- Toxaphene was detected in S-COMP-02&04 exceeding the Direct Exposure Commercial/Industerial ESL of 2.23 mg/kg.

5.0 RECOMMENDATIONS

Based on the findings and conclusions from the survey, Millennium presents the following recommendations:

5.1 Asbestos

1. It will be necessary to comply with all applicable provisions of local, EPA, OSHA, Cal/OSHA, and Siskiyou County Air Pollution Control District (SCAPCD) regulations during any removal or repair activities that may disturb the asbestos-containing materials and/or asbestos-containing construction materials.

2. All Regulated Asbestos-containing Materials (RACM) that will be affected by any planned renovation activities shall be removed prior to renovation activities in compliance with the asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) as enforced by SCAPCD, and Cal-OSHA Asbestos in the Construction Industry Standard, 8 CCR 1529.

3. All Category I and Category II non-friable asbestos-containing materials that will be affected by any planned renovation activities and that may become friable as a result of such activities shall be removed prior to or renovation of the subject buildings in compliance with the asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) as enforced by SCAPCD, and Cal-OSHA Asbestos in the Construction Industry Standard, 8 CCR 1529.

4. Materials containing any detectable concentration of asbestos that will be affected by any planned renovation activities shall be handled in accordance with the Cal-OSHA Asbestos in the Construction Industry Standard, 8 CCR 1529.

5. All assumed asbestos-containing materials referenced herein, and homogeneous materials described above as "asbestos-containing materials" discovered in other areas of the building(s) not listed above that will be affected by any planned renovation activities shall be treated as asbestos-containing materials and handled accordingly, or – shall be sampled and analyzed for asbestos prior to renovation activities.

5.2 Lead Containing Materials – Safe Work Practices

Due to the presence of lead containing building materials, compliance with Cal-OSHA 8 CCR 1532.1, Lead in the Construction Industry Standard will be required for the general renovation contractor. Workers shall have, at a minimum, lead awareness training for any work that disturbs lead containing.

Additionally, should any trigger task activity listed in section (d)(2)(A-D) of 8 CCR 1532.1, including, but not limited to, manual renovation, manual scraping, manual sanding, power tool cleaning with or without local exhaust ventilation, abrasive blasting, welding, and cutting where lead-containing paints or components are present be performed, the contractor shall comply with the following requirements:

1. Provide a negative exposure assessment performed within the past 12 months for each anticipated trigger task.

OR

2. Provide workers with interim protections including, but not limited to, provision of a written lead compliance plan, medical surveillance, provision of PPE, a respiratory protection program, provision of hygiene facilities, and performance of exposure assessments in compliance with the Lead in Construction Standard.

Typical renovation tasks, such as manual renovation, manual paint scraping, or manual sanding of building components containing lead that might be required for this project fall under Trigger Task 1. Because performance of these tasks requires either a negative exposure assessment or performance of the above listed interim protections, it may be difficult for a general contractor to comply with the Cal-OSHA requirements. In that case, the alternative of using an experienced lead remediation contractor to perform limited lead related renovation prior to general renovation may be a good option.

5.3 Lead Containing Materials - Lead Waste Profiling

Lead may be present in building components above regulatory criteria for hazardous waste. Millennium recommends additional waste characterization be performed on any materials found to contain lead. Please note that results, except where noted otherwise, represent paint or single layer samples only. Waste characterization sampling should consist of full depth samples that represent the entire waste stream including substrate and any other inseparable or commingled building components.

Prior to developing a waste characterization plan, we recommended that the contractor contact their preferred landfill and request their acceptance criteria for lead wastes. Based on the landfill acceptance criteria a plan for waste characterization sampling should be developed. Depending on landfill criteria, it may also be possible to composite whole building debris, or groups of building components into single waste streams for waste profiling and disposal. This may result in reduced waste profiling, waste handling, and disposal costs should the waste profile be non-hazardous. However, there is a risk that the entire commingled waste stream could be profiled as hazardous if a very high lead component is present in the composite.

Building components intended for re-use or recycling, such as steel, concrete, etc. do not necessarily require additional waste profiling, however, any disturbance of lead containing materials does require compliance with the above referenced Cal-OSHA Lead Standard. Additionally, depending on final use of the subject material (e.g., crushed concrete re-used as aggregate base), additional profiling may be necessary for compliance with site specific use requirements.

5.4 PCBs in Bulk Building Materials

No further action is recommended at this time.

5.5 Other Regulated Materials (ORMs)

Other regulated materials (ORMs) that will be affected by the planned demolition and/or renovation activities shall be removed prior to the start of demolition and/or renovation activities. Removal shall be performed by appropriately trained and licensed contractors and subject materials shall be recycled or disposed of at appropriately licensed facilities.

The hazardous material concern with regard to fluorescent lighting fixtures is the potential presence of PCB containing ballasts incorporated into the fixtures. Typically, the ballast labeling inside the fixtures reads either "PCB-containing", "No PCBs", or no label indication at all. Only those ballasts clearly indicating "No PCBs" can be disposed of as a construction waste. Therefore, for purposes of this preliminary and non-intrusive survey, all ballasts will be assumed as having PCB's.

In general, there are two types of light fixture waste streams resulting from building renovations and demolitions[1]:

- Waste Stream 1 – Non-PCB Ballasts: Non-PCB ballasts manufactured between 1979 and 1985 may contain di-2-ethylhexylphthalate (DEHP). As a waste generator, the building owner must determine whether the non-PCB ballast wastes are hazardous or not, and dispose of them properly. DTSC recommends these wastes be shipped to a light ballast recycling facility.

- Waste Stream 2 – Mercury-Containing Tubes: If tested, fluorescent tubes will likely exceed hazardous waste concentrations for mercury; these tests are also very costly (approximately $100 per tube). Therefore, DTSC recommends that all fluorescent tubes that are not tested should be assumed to contain mercury and be handled as hazardous waste. These items are typically removed and segregated for recycling.

5.6 Hazardous Materials Specifications and Drawings

Hazardous materials removal specifications will be prepared in order to ensure a more accurate bid process and to assist the contractor's compliance with applicable laws and regulations.

Millennium is preparing the Hazardous Materials Specifications and Drawings for incorporation into the contract documents once a renovation SOW is presented to Millennium. These specifications and drawings will be written by Millennium's Certified Asbestos Consultants and Lead Project Monitors for compliance with applicable laws and regulations.

5.7 TPH in Soil

TPHd andmo was detected in soil collected from inside Building 207 at concentrations above the Construction Worker Direct Exposure, Residential and Commercial/Industrial Shallow Soil of ESLs. Concentrations of TPHmo were greater than Tier 1 and Gross Contamination ESL for samples collected inside and between Buildings 211 and 230. These results appear to indicate one or more

[1] Information from DTSC website.

releases have occurred on the property. As part of the planned site demolition and related earth disturbing activities, Millennium offers the following recommendations:

- Perform additional soil sampling to determine the lateral and vertical extent of TPH related releases to soil in and around buildings 211 and 230.
- Define the future land use for the buildings and surrounding areas.
- Compare the results of the additional investigation to corresponding appropriate land use ESLs to determine the need for soil removal.
- If soil is to be excavated and/or removed from the property, sample soil for proper characterization required by the receiving landfill.
- During construction, implement appropriate maintenance procedures and work practices including dust control, air monitoring, appropriate Personal Protective Equipment (PPE).
- Prepare a health and safety plan for construction and demolition activities that includes soil handling hazard mitigation.

5.8 Pesticide in Soil

No further action is recommended at this time.

6.0 LIMITING CONDITIONS

Millennium Consulting conducted the survey in June of 2021, in accordance with industry standards in existence at the time of the project. The conclusions and recommendations presented in this report are based on the applicable standards of our profession at the time this report was prepared. Copies of this report are furnished to provide factual data that were gathered and summarized in the report.

The analysis and recommendations submitted in this report are based in part on the reliance of data obtained from other entities. However, the nature and extent of variations between the sampling locations may not become evident until the planned asbestos survey commence. This report has been prepared for the exclusive use of the Client for specific application to the survey performed on the property. This report may not be copied (except by our client) without the written permission of the Client. No other representation, expressed or implied, is made.

Millennium appreciated having the opportunity to provide you with our asbestos-related services. Should you have any questions regarding this report or require assistance in the design, specification, management, and/or clearance testing for any future repairs and renovation projects, please do not hesitate to contact us.

Respectfully Submitted,

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APPENDIX A

Data Table Results by Building

Appendix A - Asbestos Sample Summary - By Building
UC Intermountain REC
Tulelake, CA

Sample ID	Laboratory Report No.	Building	Sample Location	Material, Size, Composition	Color (Component1/Component2/..n	Asbestos Content / Type
T101-A1-Drywall	22104742	101	DINING ROOM STORAGE	DRYWALL SYSTEM	BROWN/GREY	ND
T101-A1-Joint Compound	22104742	101	DINING ROOM STORAGE	DRYWALL SYSTEM	WHITE	1.5% Composite 0.25%
T101-A1-Tape	22104742	101	DINING ROOM STORAGE	DRYWALL SYSTEM	BEIGE	ND
T101-A2-Drywall	22104742	101	JANITOR'S CLOSET	DRYWALL SYSTEM	GRAY	ND
T101-A2-Joint Compound	22104742	101	JANITOR'S CLOSET	DRYWALL SYSTEM	WHITE	ND
T101-A2-Tape	22104742	101	JANITOR'S CLOSET	DRYWALL SYSTEM	TAN	ND
T101-A3-Cove Base	22104742	101	RESTROOM	GREY COVE BASE AND YELLOW MASTIC	GREY	ND
T101-A3-Mastic	22104742	101	RESTROOM	GREY COVE BASE AND YELLOW MASTIC	YELLOW/BEIGE	ND
T101-A4-Cove Base	22104742	101	RESTROOM	GREY COVE BASE AND YELLOW MASTIC	GREY	ND
T101-A4-Mastic	22104742	101	RESTROOM	GREY COVE BASE AND YELLOW MASTIC	YELLOW	ND
T101-A5-Floor Tile	22104742	101	RESTROOM	12"X12" GREY VINYL FLOOR TILE AND MASTIC	GREY	ND
T101-A5-Mastic	22104742	101	RESTROOM	12"X12" GREY VINYL FLOOR TILE AND MASTIC	YELLOW/CLEAR	ND
T101-A6-Floor Tile	22104742	101	RESTROOM	12"X12" GREY VINYL FLOOR TILE AND MASTIC	GREY	ND
T101-A7-Cove Base	22104742	101	RESTROOM	4" DARK BROWN COVE BASE AND MASTIC	BROWN	ND
T101-A7-Mastic	22104742	101	RESTROOM	4" DARK BROWN COVE BASE AND MASTIC	YELLOW/BEIGE	ND
T101-A8-Cove Base	22104742	101	RESTROOM	4" DARK BROWN COVE BASE AND MASTIC	BROWN	ND
T101-A8-Mastic	22104742	101	RESTROOM	4" DARK BROWN COVE BASE AND MASTIC	YELLOW	ND
T101-A9-Top Tile	22104742	101	BREAK ROOM- STORAGE AREA	12"X12" GREY FLOOR TILE AND MASTIC	GREY/TAN	ND
T101-A9-Mastic	22104742	101	BREAK ROOM- STORAGE AREA	12"X12" GREY FLOOR TILE AND MASTIC	YELLOW/CLEAR	ND
T101-A9-Bottom Tile	22104742	101	BREAK ROOM- STORAGE AREA	12"X12" GREY FLOOR TILE AND MASTIC	GREY	10%
T101-A10-Top Tile	22104742	101	BREAK ROOM- STORAGE AREA	12"X12" GREY FLOOR TILE AND MASTIC	GREY	ND
T101-A10-Mastic	22104742	101	BREAK ROOM- STORAGE AREA	12"X12" GREY FLOOR TILE AND MASTIC	BLACK	2%
T101-A10-Bottom Tile	22104742	101	BREAK ROOM- STORAGE AREA	12"X12" GREY FLOOR TILE AND MASTIC	GREY	8%
T101-A11-Floor Tile	22104742	101	BREAK ROOM- STORAGE AREA	LYER AND BLACK MASTIC (FLOOR TILE UNDER 12" GR	GREY	10%
T101-A11-Mastic	22104742	101	BREAK ROOM- STORAGE AREA	LYER AND BLACK MASTIC (FLOOR TILE UNDER 12" GR	BLACK	<1%
T101-A12	22104742	101	WOMEN'S RESTROOM	INTERIOR WINDOW CAULKING	TAN	ND
T101-A13	22104742	101	WOMEN'S RESTROOM	INTERIOR WINDOW CAULKING	TAN	ND

Appendix A - Asbestos Sample Summary - By Building
UC Intermountain REC
Tulelake, CA

Sample ID	Laboratory Report No.	Building	Sample Location	Material, Size, Composition	Color (Component1/Component2/..n	Asbestos Content / Type
T101-A14	22104742	101	OFFICE RESTROOM	1'X1' ACOUSTICAL CEILING TILE WORMHOLE	TAN/WHITE	ND
T101-A15	22104742	101	OFFICE RESTROOM	1'X1' ACOUSTICAL CEILING TILE WORMHOLE	TAN	ND
T101-A16	22104742	101	ROOF PENETRATION BOOTS	WHITE MASTIC	WHITE	ND
T101-A17	22104742	101	ROOF PENETRATION BOOTS	WHITE MASTIC	WHITE	ND
T102-A1-Drywall	22104742	102	MAIN ROOM	DRYWALL SYSTEM	BROWN/GREY	ND
T102-A1-Joint Compound	22104742	102	MAIN ROOM	DRYWALL SYSTEM	WHITE/BEIGE	2.25% Composite 0.50%
T102-A1-Tape	22104742	102	MAIN ROOM	DRYWALL SYSTEM	BEIGE	ND
T102-A2-Drywall	22104742	102	STORAGE ROOM	DRYWALL SYSTEM	TAN	ND
T102-A2-Joint Compound	22104742	102	STORAGE ROOM	DRYWALL SYSTEM	WHITE	ND
T102-A3	22104742	102	EAST EXTERIOR- TANK	CEMENT PAD	GRAY/TAN/RUST	ND
T102-A4	22104742	102	EAST EXTERIOR	CEMENT PAD	GREY/TAN	ND
T102-A5	22104742	102	MAIN ROOM- CLOSET	CEMENT PAD	GREY/TAN/RUST	ND
T102-A6	22104742	102	MAIN ROOM- EAST	CEMENT PAD	GREY	ND
T102-A7	22104742	102	GREENHOUSE- WEST	CEMENT PAD	BROWN/GREY/TAN	ND
T102-A8	22104742	102	GREENHOUSE- EAST	CEMENT PAD	GRAY	ND
T103-A1	22104742	103	MAIN ROOM	CEMENT PAD	GRAY/TAN	ND
T103-A2	22104742	103	MAIN ROOM	CEMENT PAD	GRAY/TAN	ND
T103-A3	22104742	103	INTERIOR- WEST	WHITE CAULKING	WHITE	ND
T103-A4	22104742	103	INTERIOR- WEST	WHITE CAULKING	WHITE	ND
T104-A1	22104742	104	EXTERIOR EAST	CEMENT PAD	GRAY/TAN	ND
T104-A2	22104742	104	EXTERIOR EAST	CEMENT PAD	GREY	ND
T104-A3	22104742	104	INTERIOR- WEST	CEMENT PAD	BROWN/GREY/TAN	ND
T104-A4	22104742	104	INTERIOR- WEST	CEMENT PAD	GREY	ND
T202-A1-Drywall	22104742	202	SIDE STORAGE- EXTERIOR ENTRY	DRYWALL SYSTEM	BROWN/GREY	ND
T202-A1-Joint Compound	22104742	202	SIDE STORAGE- EXTERIOR ENTRY	DRYWALL SYSTEM	WHITE	ND
T202-A1-Tape	22104742	202	SIDE STORAGE- EXTERIOR ENTRY	DRYWALL SYSTEM	BEIGE	ND
T202-A2-Drywall	22104742	202	SIDE STORAGE- EXTERIOR ENTRY	DRYWALL SYSTEM	GRAY	ND
T202-A2-Joint Compound	22104742	202	SIDE STORAGE- EXTERIOR ENTRY	DRYWALL SYSTEM	WHITE	ND

Appendix A - Asbestos Sample Summary - By Building
UC Intermountain REC
Tulelake, CA

Sample ID	Laboratory Report No.	Building	Sample Location	Material, Size, Composition	Color (Component1/Component2/..n	Asbestos Content / Type
T202-A2-Tape	22104742	202	SIDE STORAGE- EXTERIOR ENTRY	DRYWALL SYSTEM	TAN	ND
T202-A3	22104742	202	EAST WALL	CEMENT WALL	BROWN/GREY/TAN	ND
T202-A4	22104742	202	EAST WALL	CEMENT WALL	GREY	ND
T202-A5	22104742	202	DRY CLOSETS WALL PANELS	CEMENT WALL	GREY/TAN/WHITE	ND
T202-A6	22104742	202	DRY CLOSETS WALL PANELS	CEMENT WALL	GREY	ND
T202-A7	22104742	202	EXTERIOR EAST FLOOR	BLACK MASTIC	BLACK	10%
T202-A8	22104742	202	EXTERIOR EAST FLOOR	BLACK MASTIC	BLACK	10%
T202-A9	22104742	202	DRY CLOSETS	WHITE CAULKING	BROWN/GREY/TAN	ND
T202-A10	22104742	202	DRY CLOSETS	WHITE CAULKING	GREY/TAN	ND
T202-A11	22104742	202	CLOSET	BROWN CAULKING	GREY/TAN	ND
T202-A12	22104742	202	CLOSET	BROWN CAULKING	BROWN/GREY	ND
T202-A13	22104742	202	INTERIOR- NORTH	CEMENT PAD	BROWN/GREY/TAN	ND
T202-A14	22104742	202	INTERIOR- SOUTH	CEMENT PAD	GREY	ND
T203-A1	22104742	203	EAST	WINDOW CAULKING	WHITE	ND
T203-A2	22104742	203	EAST	WINDOW CAULKING	GREY/WHITE/YELLOW	ND
T203-A3	22104742	203	NORTH	CEMENT PAD	GREY	ND
T203-A4	22104742	203	SOUTH	CEMENT PAD	BROWN/GRAY/TAN	ND
T203-A5	22104742	203	WALLS	TRANSITE WALL PANEL (UNLABELED)	GRAY/WHITE	75%
T204-A1	22104742	204	BLDG 204	CEMENT PAD	GREY	ND
T204-A2	22104742	204	BLDG 204	CEMENT PAD	GREY/TAN	ND
T205-A1	22104742	205	EXTERIOR- NORTH	CEMENT PAD	GREY	ND
T205-A2	22104742	205	EXTERIOR- NORTH	CEMENT PAD	BROWN/GREY/TAN	ND
T205-A3	22104742	205	INTERIOR- SOUTH	CEMENT PAD	GREY	ND
T205-A4	22104742	205	INTERIOR- SOUTH	CEMENT PAD	BROWN/GRAY/TAN	ND
T205-A5	22104742	205	EXTERIOR VENTS- SOUTH	GREY RUBBER MASTIC	GREY	ND
T205-A6	22104742	205	EXTERIOR VENTS- SOUTH	GREY RUBBER MASTIC	SILVER	ND
T206-A1-Drywall	22104742	206	STORAGE	DRYWALL SYSTEM	BROWN/WHITE	ND
T206-A1-Joint Compound	22104742	206	STORAGE	DRYWALL SYSTEM	WHITE	2.25% Composite 0.50%

Appendix A - Asbestos Sample Summary - By Building
UC Intermountain REC
Tulelake, CA

Sample ID	Laboratory Report No.	Building	Sample Location	Material, Size, Composition	Color (Component1/Component2/..n	Asbestos Content / Type
T206-A1-Tape	22104742	206	STORAGE	DRYWALL SYSTEM	BEIGE	ND
T206-A2-Drywall	22104742	206	REAR OFFICE	DRYWALL SYSTEM	BROWN/GREY	ND
T206-A2-Joint Compound	22104742	206	REAR OFFICE	DRYWALL SYSTEM	WHITE	1.75% Composite 0.50%
T206-A2-Tape	22104742	206	REAR OFFICE	DRYWALL SYSTEM	BEIGE	ND
T206-A3-Base Cove	22104742	206	SOUTH GARAGE	4" PINK BASE COVE AND MASTIC	TAN/PINK	ND
T206-A3-Mastic	22104742	206	SOUTH GARAGE	4" PINK BASE COVE AND MASTIC	TAN/YELLOW	ND
T206-A4-Base Cove	22104742	206	RESTROOM	4" PINK BASE COVE AND MASTIC	TAN/WHITE	ND
T206-A4-Mastic	22104742	206	RESTROOM	4" PINK BASE COVE AND MASTIC	YELLOW	ND
T206-A5	22104742	206	SOUTH GARAGE	CEMENT PAD	GREY	ND
T206-A6	22104742	206	SOUTH GARAGE	CEMENT PAD	BROWN/GREY/TAN	ND
T206-A7	22104742	206	OVER MA IN DOOR	WHITE/GREY MASTIC	GREY/WHITE/YELLOW	4%
T206-A8	22104742	206	OVER MA IN DOOR	WHITE/GREY MASTIC	BROWN/GREY/WHITE	5%
T207-A1	22104742	207	NORTH ENTRY DOOR	WHITE CAULKING	GREY	ND
T207-A2	22104742	207	NORTH ENTRY DOOR	WHITE CAULKING	GREY/WHITE	ND
T207-A3	22104742	207	INTERIOR- SOUTH	CEMENT PAD	GREY	ND
T301-A1-Drywall	22104742	301	KITCHEN	DRYWALL SYSTEM	GREY	ND
T301-A1-Joint Compound	22104742	301	KITCHEN	DRYWALL SYSTEM	WHITE	2.25% Composite 0.25%
T301-A1-Tape	22104742	301	KITCHEN	DRYWALL SYSTEM	TAN	ND
T301-A2-Drywall	22104742	301	CORRIDOR	DRYWALL SYSTEM	GREY	ND
T301-A2-Joint Compound	22104742	301	CORRIDOR	DRYWALL SYSTEM	WHITE	2.00% Composite 0.25%
T301-A2-Tape	22104742	301	CORRIDOR	DRYWALL SYSTEM	TAN	ND
T301-A3-Drywall	22104742	301	FRONT ROOM	DRYWALL SYSTEM	GREY	ND
T301-A3-Joint Compound	22104742	301	FRONT ROOM	DRYWALL SYSTEM	TAN/WHITE	1.50% Composite 0.50%
T301-A3-Tape	22104742	301	FRONT ROOM	DRYWALL SYSTEM	TAN	ND
T301-A4	22104742	301	ROOM- BEHIND WOOD WALL PANEL	BLACK MASTIC	BLACK	5%
T301-A5	22104742	301	ROOM- BEHIND WOOD WALL PANEL	BLACK MASTIC	BLACK	4%
T301-A6	22104742	301	EXTERIOR- SOUTHEAST	CEMENT PAD	GREY	ND
T301-A7	22104742	301	EXTERIOR- SOUTHEAST	CEMENT PAD	GREY/TAN	ND
T301-A8-Cove Base	22104742	301	BEDROOMS	4" TAN BASE COVE AND BROWN MASTIC	TAN	ND
T301-A8-Mastic	22104742	301	BEDROOMS	4" TAN BASE COVE AND BROWN MASTIC	BROWN	ND
T301-A9-Cove Base	22104742	301	BEDROOMS	4" TAN BASE COVE AND BROWN MASTIC	TAN	ND

Appendix A - Asbestos Sample Summary - By Building
UC Intermountain REC
Tulelake, CA

Sample ID	Laboratory Report No.	Building	Sample Location	Material, Size, Composition	Color (Component1/Component2/..n	Asbestos Content / Type
T301-A9-Mastic	22104742	301	BEDROOMS	4" TAN BASE COVE AND BROWN MASTIC	BROWN	ND
T301-A10-Cove Base	22104742	301	BEDROOM	LIGHT BROWN BASE COVE AND DARK BROWN MAST	TAN	ND
T301-A10-Mastic	22104742	301	BEDROOM	LIGHT BROWN BASE COVE AND DARK BROWN MAST	BROWN	ND
T301-A11-Cove Base	22104742	301	BEDROOM	LIGHT BROWN BASE COVE AND DARK BROWN MAST	TAN	ND
T301-A11-Mastic	22104742	301	BEDROOM	LIGHT BROWN BASE COVE AND DARK BROWN MAST	BROWN	ND
T301-A12-Floor Tile	22104742	301	REAR HALLWAY CLOSET	12"X12" VINYL FLOOR TILE BEIGE W/ SPECKLES	BEIGE	2%
T301-A12-Mastic	22104742	301	REAR HALLWAY CLOSET	12"X12" VINYL FLOOR TILE BEIGE W/ SPECKLES	YELLOW	ND
T301-A13-Floor Tile	22104742	301	REAR HALLWAY CLOSET	12"X12" VINYL FLOOR TILE BEIGE W/ SPECKLES	TAN	2%
T301-A13-Mastic	22104742	301	REAR HALLWAY CLOSET	12"X12" VINYL FLOOR TILE BEIGE W/ SPECKLES	YELLOW	ND
T301-A14-Top Mastic	22104742	301	BEDROOM REAR	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A14-Floor Tile	22104742	301	BEDROOM REAR	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	WHITE	2%
T301-A14-Bottom Mastic	22104742	301	BEDROOM REAR	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A15-Top Mastic	22104742	301	BEDROOM REAR	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A15-Floor Tile	22104742	301	BEDROOM REAR	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	TAN	2%
T301-A15-Bottom Mastic	22104742	301	BEDROOM REAR	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A16-Top Mastic	22104742	301	BEDROOM - (VFT UNDER CARPET)	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A16-Floor Tile	22104742	301	BEDROOM - (VFT UNDER CARPET)	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	WHITE	3%
T301-A16-Bottom Mastic	22104742	301	BEDROOM - (VFT UNDER CARPET)	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A17-Top Mastic	22104742	301	BEDROOM - (VFT UNDER CARPET)	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A17-Floor Tile	22104742	301	BEDROOM - (VFT UNDER CARPET)	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	TAN	2%
T301-A17-Bottom Mastic	22104742	301	BEDROOM - (VFT UNDER CARPET)	2"X12" WHITE VINYL FLOOR TILE AND YELLOW MAST	YELLOW	ND
T301-A18-Mastic/Felt	22104742	301	BEDROOM - (MASTIC UNDER VFT)	BLACK MASTIC	BLACK	ND
T301-A19-Mastic/Felt	22104742	301	BEDROOM - (MASTIC UNDER VFT)	BLACK MASTIC	BLACK	ND
T301-A20-Flooring	22104742	301	HALLWAY	IGE RESILIENT SHEET FLOORING W/ BROWN SPECKI	BEIGE	ND
T301-A20-Mastic	22104742	301	HALLWAY	IGE RESILIENT SHEET FLOORING W/ BROWN SPECKI	WHITE	ND
T301-A21-Flooring	22104742	301	HALLWAY	IGE RESILIENT SHEET FLOORING W/ BROWN SPECKI	GREY	ND
T301-A21-Mastic	22104742	301	HALLWAY	IGE RESILIENT SHEET FLOORING W/ BROWN SPECKI	TAN	ND
T302-A1	22104742	302	INTERIOR	CEMENT PAD	GREY	ND

Appendix A - Asbestos Sample Summary - By Building
UC Intermountain REC
Tulelake, CA

Sample ID	Laboratory Report No.	Building	Sample Location	Material, Size, Composition	Color (Component1/Component2/..n	Asbestos Content / Type
T302-A2	22104742	302	INTERIOR	CEMENT PAD	GREY	ND
TMS-A1	22104742	MINT STILL	EAST SIDE PENETRATION	WHITE/CLEAR MASTIC	WHITE/CLEAR	ND
TMS-A2	22104742	MINT STILL	EAST SIDE PENETRATION	WHITE/CLEAR MASTIC	CLEAR	ND
TMS-A3	22104742	MINT STILL	INTERIOR	CEMENT PAD	GREY	ND
TMS-A4	22104742	MINT STILL	INTERIOR	CEMENT PAD	GREY	ND

Appendix A- Lead Sample Summary by Building
UC Intermountain REC
Tulelake, CA

Building No.	Sample No.	Sample Location	Coating Color	Substrate	Lead Concentration (ppm)	LCP/LBP
101	T101-Pb2	Interior Door Trim	Dark Grey Paint	Wood	< 300	LCP
101	T101-Pb4	Exterior Front Signage	Red Paint	Wood	< 200	LCP
101	T101-Pb1	Interior Primary	White Paint	Drywall	310	LCP
101	T101-Pb3	Office- Interior Door Trim	Light Grey Paint Over Brown Paint	Wood	240	LCP
102	T102-Pb1	Interior Primary	White Paint	Drywall	< 80	ND
102	T102-Pb2	Door Trim	White Paint	Wood	610	LCP
102	T102-Pb3	Exterior- Primary	Beige Paint		230	LCP
103	T103-Pb2	Rollup Door Frame- Exterior Trim	Yellow Paint	Wood	< 80	ND
103	T103-Pb1	Storage Rooms- Exterior Door Trim	Yellow Paint	Wood	< 110	LCP
104	T104-Pb1	Interior Primary	White Paint	Wood	< 80	ND
202	T202-Pb3	Wood Trim- North	Yellow Paint	Wood	60000	LBP
202	T202-Pb1	Interior Primary	White Paint		51000	LBP
202	T202-Pb4	Exterior North Structure Above Doors	Grey Paint	Metal	37000	LBP
202	T202-Pb2	Interior Door Frame Trim	White Paint		30000	LBP
203	T203-Pb3	Metal Siding (Majority of Building)	Yellow Paint	Wood	< 80	ND
203	T203-Pb2	Interior South Room	Grey Paint		130000	LBP
203	T203-Pb1	Exterior Old Window Sill	Yellow Paint		330	LCP
204	T204-Pb2	Exterior Wall Primary	Beige Paint	Wood	< 80	ND
204	T204-Pb1	Interior Wall	White Paint	Wood	99	LCP
206	T206-Pb1	Interior Primary	White Paint		< 88	ND
207	T207-Pb1	Interior Primary	White Paint		< 200	LCP
208	T208-Pb1	Exterior Primary- Center Storage	Beige Paint		< 180	LCP
208	T208-Pb2	Interior Siding	White Paint	Wood	130	LCP
301	T301-Pb1	Interior Primary	White Paint		< 80	ND
301	T301-Pb3	Exterior Front Doot Trim	White Paint	Wood	< 80	ND

Appendix A- Lead Sample Summary by Building
UC Intermountain REC
Tulelake, CA

301	T301-Pb4	Exterior Primary	Beige Paint		< 80	ND
301	T301-Pb2	Kitchen-Cupboard Trim	White Paint	Wood	3500	LCP
302	T302-Pb1	Interior Door Trim	White Paint	Wood	< 80	ND
302	T302-Pb2	Exterior Primary	Beige Paint		< 80	ND
TMS	TMS-Pb1	Mint Still Building- Fuel Tanks - East Side	Grey Paint	Metal	240	LCP

MILLENNIUM
CONSULTING ASSOCIATES
A MECA Consulting, Inc. Company

APPENDIX B

Asbestos Laboratory Data, Chain of Custodies and Laboratory Certifications

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175

http://www.EMSL.com / greensborolab@emsl.com

EMSL Order:	022104742
Customer ID:	MECA62
Customer PO:	KE210615-1
Project ID:	

Attention:	Jenice Feiner	**Phone:**	
	Millennium Consulting Associates, Inc.	**Fax:**	
	4683 Chabot Drive, Suite 380	**Received Date:**	06/21/2021 12:30 PM
	Pleasanton, CA 94588	**Analysis Date:**	06/23/2021 - 06/24/2021
		Collected Date:	
Project:	21015.2001 Intermountain REC		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T101-A1-Drywall *022104742-0001*	DWS	Brown/Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
T101-A1-Joint Compound *022104742-0001A*	DWS	White Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 77% Non-fibrous (Other)	2% Chrysotile
T101-A1-Tape *022104742-0001B*	DWS	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
T101-A2-Drywall *022104742-0002*	DWS	Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
T101-A2-Joint Compound *022104742-0002A*	DWS	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
T101-A2-Tape *022104742-0002B*	DWS	Tan Fibrous Homogeneous	100% Cellulose		None Detected
T101-A3-Cove Base *022104742-0003*	Grey Base Cove & Yellow Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A3-Mastic *022104742-0003A*	Grey Base Cove & Yellow Mastic	Yellow/Beige Non-Fibrous Homogeneous	3% Cellulose 1% Synthetic	96% Non-fibrous (Other)	None Detected
T101-A4-Cove Base *022104742-0004*	Grey Base Cove & Yellow Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A4-Mastic *022104742-0004A*	Grey Base Cove & Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A5-Floor Tile *022104742-0005*	12x12 Grey VFT & Mastic	Gray Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
T101-A5-Mastic *022104742-0005A*	12x12 Grey VFT & Mastic	Yellow/Clear Non-Fibrous Homogeneous	<1% Cellulose <1% Synthetic	100% Non-fibrous (Other)	None Detected
T101-A6-Floor Tile *022104742-0006*	12x12 Grey VFT & Mastic	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
T101-A7-Cove Base *022104742-0007*	4" Drk Brown Base Cove & Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A7-Mastic *022104742-0007A*	4" Drk Brown Base Cove & Mastic	Yellow/Beige Non-Fibrous Homogeneous	1% Cellulose <1% Synthetic	99% Non-fibrous (Other)	None Detected

Initial report from: 06/24/2021 12:14:13

EMSL Analytical, Inc.
706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order:	022104742
Customer ID:	MECA62
Customer PO:	KE210615-1
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T101-A8-Cove Base *022104742-0008*	4" Drk Brown Base Cove & Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A8-Mastic *022104742-0008A*	4" Drk Brown Base Cove & Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A9-Top Tile *022104742-0009*	12x12 Grey FT & Mastic	Gray/Tan Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
T101-A9-Mastic *022104742-0009A*	12x12 Grey FT & Mastic	Yellow/Clear Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T101-A9-Bottom Tile *022104742-0009B*	12x12 Grey FT & Mastic	Gray Fibrous Homogeneous		15% Quartz 75% Non-fibrous (Other)	10% Chrysotile
T101-A10-Top Tile *022104742-0010*	12x12 Grey FT & Mastic	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
T101-A10-Mastic *022104742-0010A* *Difficult To Separate From Positive Tile, Possible Contamination.*	12x12 Grey FT & Mastic	Black Non-Fibrous Homogeneous	2% Cellulose	96% Non-fibrous (Other)	2% Chrysotile
T101-A10-Bottom Tile *022104742-0010B*	12x12 Grey FT & Mastic	Gray Non-Fibrous Homogeneous		10% Quartz 82% Non-fibrous (Other)	8% Chrysotile
T101-A11-Floor Tile *022104742-0011*	Sub Layer & Black Mastic (Floor Tile under 12" Grey FT)	Gray Fibrous Homogeneous		15% Quartz 75% Non-fibrous (Other)	10% Chrysotile
T101-A11-Mastic *022104742-0011A* *Possible Contamination From Tile.*	Sub Layer & Black Mastic (Floor Tile under 12" Grey FT)	Black Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	<1% Chrysotile
T101-A12 *022104742-0012*	Interior Window Caulking	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T101-A13 *022104742-0013*	Interior Window Caulking	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
T101-A14 *022104742-0014*	1x1 ACT Wormhole	Tan/White Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected
T101-A15 *022104742-0015*	1x1 ACT Wormhole	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
T101-A16 *022104742-0016*	White Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T101-A17 *022104742-0017*	White Mastic	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T102-A1-Drywall *022104742-0018*	DWS	Brown/Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
T102-A1-Joint Compound *022104742-0018A*	DWS	White/Beige Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 77% Non-fibrous (Other)	2% Chrysotile

Initial report from: 06/24/2021 12:14:13

EMSL Analytical, Inc.
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Tel/Fax: (336) 992-1025 / (336) 992-4175
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EMSL Order:	022104742
Customer ID:	MECA62
Customer PO:	KE210615-1
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T102-A1-Tape *022104742-0018B*	DWS	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
T102-A2-Drywall *022104742-0019*	DWS	Tan Fibrous Heterogeneous	6% Cellulose 1% Glass	93% Non-fibrous (Other)	None Detected
T102-A2-Joint Compound *022104742-0019A*	DWS	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
T102-A3 *022104742-0020*	Cement Pad	Gray/Tan/Rust Non-Fibrous Heterogeneous		45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T102-A4 *022104742-0021*	Cement Pad	Gray/Tan Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T102-A5 *022104742-0022*	Cement Pad	Gray/Tan/Rust Non-Fibrous Heterogeneous	<1% Cellulose	45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T102-A6 *022104742-0023*	Cement Pad	Gray Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T102-A7 *022104742-0024*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T102-A8 *022104742-0025*	Cement Pad	Gray Non-Fibrous Homogeneous		35% Quartz 65% Non-fibrous (Other)	None Detected
T103-A1 *022104742-0026*	Cement Pad	Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T103-A2 *022104742-0027*	Cement Pad	Gray/Tan Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T103-A3 *022104742-0028*	White Caulking	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T103-A4 *022104742-0029*	White Caulking	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
T104-A1 *022104742-0030*	Cement Pad	Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T104-A2 *022104742-0031*	Cement Pad	Gray Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T104-A3 *022104742-0032*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T104-A4 *022104742-0033*	Cement Pad	Gray Non-Fibrous Homogeneous	3% Cellulose 1% Glass	96% Non-fibrous (Other)	None Detected
T202-A1-Drywall *022104742-0034*	DWS	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected

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EMSL Order:	022104742
Customer ID:	MECA62
Customer PO:	KE210615-1
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T202-A1-Joint Compound *022104742-0034A*	DWS	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
T202-A1-Tape *022104742-0034B*	DWS	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
T202-A2-Drywall *022104742-0035*	DWS	Gray Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
T202-A2-Joint Compound *022104742-0035A*	DWS	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
T202-A2-Tape *022104742-0035B*	DWS	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
T202-A3 *022104742-0036*	Cement Wall	Brown/Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T202-A4 *022104742-0037*	Cement Wall	Gray Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T202-A5 *022104742-0038*	Cement Wall	Gray/Tan/White Fibrous Heterogeneous	<1% Cellulose 5% Synthetic	45% Quartz 10% Ca Carbonate 40% Non-fibrous (Other)	None Detected
T202-A6 *022104742-0039*	Cement Wall	Gray Non-Fibrous Homogeneous	5% Synthetic	40% Quartz 5% Ca Carbonate 50% Non-fibrous (Other)	None Detected
T202-A7 *022104742-0040*	Black Mastic	Black Fibrous Homogeneous	2% Cellulose	88% Non-fibrous (Other)	10% Chrysotile
T202-A8 *022104742-0041*	Black Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
T202-A9 *022104742-0042*	White Caulking	Brown/Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T202-A10 *022104742-0043*	White Caulking	Gray/Tan Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T202-A11 *022104742-0044*	Brown Caulking	Gray/Tan Fibrous Heterogeneous	1% Cellulose 5% Synthetic	10% Ca Carbonate 84% Non-fibrous (Other)	None Detected
T202-A12 *022104742-0045*	Brown Caulking	Brown/Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
T202-A13 *022104742-0046*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T202-A14 *022104742-0047*	Cement Pad	Gray Non-Fibrous Homogeneous	<1% Cellulose	40% Quartz 60% Non-fibrous (Other)	None Detected
T203-A1 *022104742-0048*	Window Caulking	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T203-A2 *022104742-0049*	Window Caulking	Gray/White/Yellow Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
T203-A3 *022104742-0050*	Cement Pad	Gray Non-Fibrous Heterogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T203-A4 *022104742-0051*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	45% Quartz 10% Ca Carbonate 45% Non-fibrous (Other)	None Detected
T203-A5 *022104742-0052*	Transite Panel (unlabeled)	Gray/White Fibrous Homogeneous		25% Non-fibrous (Other)	75% Chrysotile
T204-A1 *022104742-0053*	Cement Pad	Gray Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (Other)	None Detected
T204-A2 *022104742-0054*	Cement Pad	Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	40% Quartz 60% Non-fibrous (Other)	None Detected
T205-A1 *022104742-0055*	Cement Pad	Gray Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T205-A2 *022104742-0056*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (Other)	None Detected
T205-A3 *022104742-0057*	Cement Pad	Gray Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (Other)	None Detected
T205-A4 *022104742-0058*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (Other)	None Detected
T205-A5 *022104742-0059*	Grey Rubber Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T205-A6 *022104742-0060*	Grey Rubber Mastic	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T206-A1-Drywall *022104742-0061*	DWS	Brown/White Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
T206-A1-Joint Compound *022104742-0061A*	DWS	White Non-Fibrous Homogeneous		15% Ca Carbonate 82% Non-fibrous (Other)	3% Chrysotile
T206-A1-Tape *022104742-0061B*	DWS	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
T206-A2-Drywall *022104742-0062*	DWS	Brown/Gray Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
T206-A2-Joint Compound *022104742-0062A*	DWS	White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 77% Non-fibrous (Other)	3% Chrysotile
T206-A2-Tape *022104742-0062B*	DWS	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T206-A3-Base Cove *022104742-0063*	4" Pink Base Cove & Mastic	Tan/Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T206-A3-Mastic *022104742-0063A*	4" Pink Base Cove & Mastic	Tan/Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T206-A4-Base Cove *022104742-0064*	4" Pink Base Cove & Mastic	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T206-A4-Mastic *022104742-0064A*	4" Pink Base Cove & Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T206-A5 *022104742-0065*	Cement Pad	Gray Non-Fibrous Heterogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T206-A6 *022104742-0066*	Cement Pad	Brown/Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (Other)	None Detected
T206-A7 *022104742-0067*	White/Grey Mastic	Gray/White Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
T206-A8 *022104742-0068*	White/Grey Mastic	Brown/Gray/White Fibrous Heterogeneous	1% Cellulose	94% Non-fibrous (Other)	5% Chrysotile
T207-A1 *022104742-0069*	White Caulking	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
T207-A2 *022104742-0070*	White Caulking	Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
T207-A3 *022104742-0071*	Cement Pad	Gray Non-Fibrous Heterogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
T301-A1-Drywall *022104742-0072*	DWS	Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
T301-A1-Joint Compound *022104742-0072A*	DWS	White Non-Fibrous Homogeneous		10% Ca Carbonate 87% Non-fibrous (Other)	3% Chrysotile
T301-A1-Tape *022104742-0072B*	DWS	Tan Fibrous Homogeneous	100% Cellulose		None Detected
T301-A2-Drywall *022104742-0073*	DWS	Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
T301-A2-Joint Compound *022104742-0073A*	DWS	White Non-Fibrous Homogeneous		10% Ca Carbonate 87% Non-fibrous (Other)	3% Chrysotile
T301-A2-Tape *022104742-0073B*	DWS	Tan Fibrous Homogeneous	100% Cellulose		None Detected
T301-A3-Drywall *022104742-0074*	DWS	Gray Fibrous Heterogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T301-A3-Joint Compound *022104742-0074A*	DWS	Tan/White Non-Fibrous Homogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
T301-A3-Tape *022104742-0074B*	DWS	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
T301-A4 *022104742-0075*	Black Mastic	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
T301-A5 *022104742-0076*	Black Mastic	Black Non-Fibrous Homogeneous	5% Cellulose	91% Non-fibrous (Other)	4% Chrysotile
T301-A6 *022104742-0077*	Cement Pad	Gray Non-Fibrous Homogeneous		20% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
T301-A7 *022104742-0078*	Cement Pad	Gray/Tan Non-Fibrous Homogeneous		35% Quartz 65% Non-fibrous (Other)	None Detected
T301-A8-Cove Base *022104742-0079*	4" Tan Base Cove & Brown Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A8-Mastic *022104742-0079A*	4" Tan Base Cove & Brown Mastic	Brown Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
T301-A9-Cove Base *022104742-0080*	4" Tan Base Cove & Brown Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A9-Mastic *022104742-0080A*	4" Tan Base Cove & Brown Mastic	Brown Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
T301-A10-Cove Base *022104742-0081*	4" Light Brown Base Cove & Dark Brown Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A10-Mastic *022104742-0081A*	4" Light Brown Base Cove & Dark Brown Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A11-Cove Base *022104742-0082*	4" Light Brown Base Cove & Dark Brown Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A11-Mastic *022104742-0082A*	4" Light Brown Base Cove & Dark Brown Mastic	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T301-A12-Floor Tile *022104742-0083*	12x12 VFT Beige w/ Speckles	Beige Non-Fibrous Homogeneous		20% Quartz 78% Non-fibrous (Other)	2% Chrysotile
T301-A12-Mastic *022104742-0083A*	12x12 VFT Beige w/ Speckles	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A13-Floor Tile *022104742-0084*	12x12 VFT Beige w/ Speckles	Tan Non-Fibrous Homogeneous		20% Quartz 78% Non-fibrous (Other)	2% Chrysotile
T301-A13-Mastic *022104742-0084A*	12x12 VFT Beige w/ Speckles	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T301-A14-Top Mastic *022104742-0085*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T301-A14-Floor Tile *022104742-0085A*	12x12 White VFT & Yellow Mastic	White Non-Fibrous Homogeneous		20% Quartz 78% Non-fibrous (Other)	2% Chrysotile
T301-A14-Bottom Mastic *022104742-0085B*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A15-Top Mastic *022104742-0086*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose <1% Synthetic	100% Non-fibrous (Other)	None Detected
T301-A15-Floor Tile *022104742-0086A*	12x12 White VFT & Yellow Mastic	Tan Non-Fibrous Homogeneous		20% Quartz 78% Non-fibrous (Other)	2% Chrysotile
T301-A15-Bottom Mastic *022104742-0086B*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T301-A16-Top Mastic *022104742-0087*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A16-Floor Tile *022104742-0087A*	12x12 White VFT & Yellow Mastic	White Non-Fibrous Homogeneous		20% Quartz 77% Non-fibrous (Other)	3% Chrysotile
T301-A16-Bottom Mastic *022104742-0087B*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A17-Top Mastic *022104742-0088*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T301-A17-Floor Tile *022104742-0088A*	12x12 White VFT & Yellow Mastic	Tan Non-Fibrous Homogeneous		20% Quartz 78% Non-fibrous (Other)	2% Chrysotile
T301-A17-Bottom Mastic *022104742-0088B*	12x12 White VFT & Yellow Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
T301-A18-Mastic/Felt *022104742-0089*	Black Mastic	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
T301-A19-Mastic/Felt *022104742-0090*	Black Mastic	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
T301-A20-Flooring *022104742-0091*	Beige RSF w/ Brown Speckles	Beige Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
T301-A20-Mastic *022104742-0091A*	Beige RSF w/ Brown Speckles	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
T301-A21-Flooring *022104742-0092*	Beige RSF w/ Brown Speckles	Gray Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
T301-A21-Mastic *022104742-0092A*	Beige RSF w/ Brown Speckles	Tan Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
T302-A1 *022104742-0093*	Cement Pad	Gray Non-Fibrous Homogeneous		20% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T302-A2 *022104742-0094*	Cement Pad	Gray Non-Fibrous Homogeneous	<1% Cellulose	30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
TMS-A1 *022104742-0095*	White/ Clear Mastic	White/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TMS-A2 *022104742-0096*	White/ Clear Mastic	Clear Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
TMS-A3 *022104742-0097*	Cement Pad	Gray Non-Fibrous Homogeneous		20% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
TMS-A4 *022104742-0098*	Cement Pad	Gray Non-Fibrous Homogeneous	<1% Cellulose	30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected

Analyst(s)

Cameron Evans (47)
Philip Szabo (34)
Ryan Rains (16)
Scott Combs (50)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

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OrderID: 022104742

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (*Lab Use Only*): 022104742

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Company : Millennium Consulting Associates

EMSL-Bill to: ☒ Same ☐ Different
If Bill to is Different note instructions in Comments**

Street: 401 Roland Way Suite 250

Third Party Billing requires written authorization from third party

City: Oakland **State/Province:** CA **Zip/Postal Code:** 94621 **Country:** US

Report To (Name): J. Maison | A. Grisslette **Telephone #:** (925) 808-6700

Email Address: jfeiner@mecaenviro.com **Fax #:** (925) 808-6708 **Purchase Order:** KE210615-1

Project Name/Number: 21015.2001 Intermountain REC **Please Provide Results:** ☐ Fax ☒ Email

U.S. State Samples Taken: CA **CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)

- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NY ELAP Method 198 1 (friable in NY)
- ☐ NY ELAP Method 198.6 NOB (non-friable-NY)
- ☐ OSHA ID-191 Modified
- ☐ Standard Addition Method

TEM – Bulk

- ☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5 5.1
- ☐ NY ELAP Method 198.4 (TEM)
- ☐ Chatfield Protocol (semi-quantitative)
- ☐ TEM % by Mass – EPA 600/R-93/116 Section 2 5 5.2
- ☐ TEM Qualitative via Filtration Prep Technique
- ☐ TEM Qualitative via Drop Mount Prep Technique

Other

- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 06/15/21 - 06/16/21

Samplers Name: K. Efe | A. Grisslette **Samplers Signature:** K Efe

Sample #	HA #	Sample Location	Material Description
T101- A1	1	Bldg 101 - Dining Rm storage	DWS
A2	1	- Janitor's Closet	↓
A3	2	- Restroom	Grey Base cove + yellow mastic
A4	2	↓	↓ ↓
A5	3	- Restroom	12"x12" grey VFT + mastic
A6	3	↓	↓ ↓
A7	4	- Restroom	4" Drk Brown Base cove + mastic
A8	4	↓	↓ ↓
A9	5	- Break Room Storage Area	12"x12" grey FT + mastic
A10	5	↓ ↓	↓ ↓

Client Sample # (s): **Total # of Samples:** 98

Relinquished (Client): K Efe **Date:** 6/16/21 **Time:** 1600

Received (Lab): [signature] Date: 6/21/21 6-22-21 Time: ~~0900~~ 9:30am

Comments/Special Instructions:

Controlled Document – Asbestos COC – R6 – 11/29/2012

Relinquished by EMSL Analytical - San Leandro Lab
Date/Time: 6/21/21 4pm **By (name):** [signature]

OrderID: 022104742

EMSL ANALYTICAL, INC
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*: 022104742

EMSL ANALYTICAL, INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE (800) 220-3675
FAX (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	HA #	Sample Location	Material Description
T101-	A11	5	Bldg 101 - Break Room Storage Area	sublayer + Black mastic (Floor tile under 12" grey FT)
	A12	6	- Women's RR	interior window caulking
	A13	6	↓	↓
	A14	7	- Office RR	1'x 1' ACT wormhole
	A15	7	↓	↓
	A16	8	- Roof penetration Boots	white mastic
	A17	8	↓	↓
T102-	A1	9	Bldg 102 - Main Room	DWS
	A2	9	- Storage Room	↓
	A3	10	- East Ext. - Tank	cement pad
	A4	10	East Ext	↓
	A5	11	- Main Room - closet	cement pad
	A6	11	Main Room - East	↓
	A7	12	- Greenhouse - West	cement pad
	A8	12	↓ - East	↓
T103-	A1	13	Bldg 103 - Main Room	cement pad
	A2	13	↓	↓
	A3	14	- wood wall panel	white caulking
	A4	14	↓	↓
T104-	A1	15	Bldg 104 - Ext. East	Cement pad
	A2	15	↓	↓
	A3	16	- Int. West	cement pad
	A4	16	↓	↓
T202-	A1	17	Bldg 202 - side storage - Ext. Entry	DWS

***Comments/Special Instructions:**

Received 6/21/21 9:30am FX

Controlled Document – Asbestos COC – R6 – 11/29/2012

Relinquished by EMSL Analytical - San Leandro Lab

Date/Time: 6/21/21 4pm By (name):

OrderID: 022104742

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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*

022104742

EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON NJ 08077
PHONE (800) 220-3675
FAX (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	HA #	Sample Location	Material Description
T202	A2	17	Bldg 202 - side storage - EXT. Entry	DWS
	A3	18	- East wall	cement wall
	A4	18	↓	↓
	A5	19	- Dry closets wall panels	cement wall
	A6	19	↓	↓
	A7	20	- EXT East Floor	Black Mastic
	A8	20	↓	↓
	A9	21	- Dry closets	white caulking
	A10	21	↓	↓
	A11	22	- closet	Brown caulking
	A12	22	↓	↓
	A13	23	- Interior - North	cement pad
	A14	23	↓ - South	↓
T203	A1	24	Bldg 203 - East	window caulking
	A2	24	↓	↓
	A3	25	- North	Cement pad
	A4	25	- South	↓
	A5	26	- walls	Transite panel (unlabeled)
T204	A1	27	Bldg 204 -	Cement pad
↓	A2	27	↓	↓
T205	A1	28	Bldg 205 - EXT. North	cement pad
	A2	28	↓	↓
	A3	29	Int. South	Cement pad
	A4	29	↓	↓

***Comments/Special Instructions:**

Received: MM FX
6/2/21 9:30am

Page 3 of 5 pages

Controlled Document – Asbestos COC - R6 - 11/29/2012

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Date/Time 6/2/21 4pm By (name):

EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*: 022104742

EMSL Analytical, Inc
200 Route 130 North
Cinnaminson, NJ 08077
Phone (800) 220-3675
Fax (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
T205- A5	30	Bldg 205 - Ext. vents - South	Grey Rubber mastic
A6	30	↓ ↓ ↓	↓
T206- A1	31	Bldg 206 - storage	DWS
A2	31	- Rear office	↓
A3	32	- Restroom	4" pink base cove + mastic
A4	32	↓	↓ ↓
A5	33	- South garage	Cement pad
A6	33	↓	↓
A7	34	- over MA in door	white / grey mastic
A8	34	↓ ↓	↓
T207- A1	35	Bldg 207 - North Entry door	white caulking
A2	35	↓ ↓	↓
A3	36	- int. South	Cement pad
T301- A1	37	Bldg 301 - Kitchen	DWS
A2	37	- Corridor	↓
A3	37	- Front room	↓
A4	38	- Room - Behind wood wall panel	Black mastic
A5	38	↓ ↓	↓
A6	39	- South East - Ext.	Cement pad
A7	39	↓	↓
A8	40	- bedrooms	4" tan Base cove + Brown mastic
A9	40	↓	↓ ↓
A10	41	- bedroom	4" light brown Base cove + dark brown mastic
A11	41	↓ ↓	↓ ↓

***Comments/Special Instructions:**

Received: MW 6/21/21 9:30am

Page 4 of 5 pages

Controlled Document – Asbestos COC – R5 – 11/29/2012

Relinquished by EMSL Analytical - San Leandro Lab
Date/Time 6/21/21 4pm By (name):

EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*: 022104742

EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE (800) 220-3675
FAX (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	HA #	Sample Location	Material Description
T301-	A12	42	Bldg 301- Rear hallway closet	12"X12" VFT Beige w/ speckles
	A13	42	↓	↓
	A14	43	- Bedroom Rear	12" x 12" white VFT + yellow mastic
	A15	43	↓	↓ ↓
	A16	44	- Bedroom - (VFT under Carpet)	12" x 12" white VFT + yellow mastic
	A17	44	↓ ↓	↓ ↓
	A18	45	- Bedroom - (mastic under VFT)	Black mastic
	A19	45	↓ ↓	↓
	A20	46	- Hallway	Beige RSF w/ Brown speckles
	A21	46	↓	↓
T302-	A1	47	Bldg 302 - interior	cement pad
↓	A2	47	↓ ↓	↓
TMS-	A1	48	Mint Still Bldg - East side penetration	white/clear mastic
	A2	48	↓	↓
	A3	49	- interior	cement pad
	A4	49	↓	↓
				KE
				KE
				KE
				KE
				KE
				KE
				KE
				KE

***Comments/Special Instructions:**

Received 6/17/21 9:30am

Page 5 of 5 pages

Controlled Document – Asbestos COC – R6 – 11/29/2012

Relinquished By EMSL ... Leandro Lo
Date/Time: 6/21/21 9a By (name):

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Phone/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 022104742
Customer ID: MECA62
Customer PO: KE210615-1
Project ID:

Attention: Jenice Feiner
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Project: 21015.2001 Intermountain REC

Phone:
Fax:
Received: 06/21/2021 12:30 PM
Analysis Date: 07/28/2021
Collected:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T101-A1-Joint Compound *022104742-0001A*	DWS	White Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 77.5% Non-fibrous (Other)	**1.50% Chrysotile**
T101-A1-Wall System Composite *022104742-0001C*	DWS	Brown/Gray/Beige Fibrous Heterogeneous	55% Cellulose	2% Ca Carbonate 42.75% Non-fibrous (Other)	**0.25% Chrysotile**
T102-A1-Joint Compound *022104742-0018A*	DWS	White/Beige Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 76.8% Non-fibrous (Other)	**2.25% Chrysotile**
T102-A1-Wall System Composite *022104742-0018C*	DWS	Brown/Gray/Beige Fibrous Heterogeneous	55% Cellulose	2% Ca Carbonate 42.50% Non-fibrous (Other)	**0.50% Chrysotile**
T206-A1-Joint Compound *022104742-0061A*	DWS	White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 77.8% Non-fibrous (Other)	**2.25% Chrysotile**
T206-A1-Wall System Composite *022104742-0061C*	DWS	Brown/Gray/Beige Non-Fibrous Homogeneous	30% Cellulose	2% Ca Carbonate 67.50% Non-fibrous (Other)	**0.50% Chrysotile**
T206-A2-Joint Compound *022104742-0062A*	DWS	White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 78.3% Non-fibrous (Other)	**1.75% Chrysotile**
T206-A2-Wall System Composite *022104742-0062C*	DWS	Brown/Gray/Beige Non-Fibrous Homogeneous	30% Cellulose	2% Ca Carbonate 67.50% Non-fibrous (Other)	**0.50% Chrysotile**
T301-A1-Joint Compound *022104742-0072A*	DWS	White Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 67.8% Non-fibrous (Other)	**2.25% Chrysotile**
T301-A1-Wall System Composite *022104742-0072C*	DWS	Brown/Gray/Beige Non-Fibrous Homogeneous	55% Cellulose	2% Ca Carbonate 42.75% Non-fibrous (Other)	**0.25% Chrysotile**

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228, West Virginia LT000321

Initial report from: 07/29/2021 08:48:07

EMSL Analytical, Inc.
706 Gralin Street Kernersville, NC 27284
Phone/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order:	022104742
Customer ID:	MECA62
Customer PO:	KE210615-1
Project ID:	

Attention: Jenice Feiner
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Project: 21015.2001 Intermountain REC

Phone:	
Fax:	
Received:	06/21/2021 12:30 PM
Analysis Date:	07/28/2021
Collected:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
T301-A2-Joint Compound *022104742-0073A*	DWS	White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 78.0% Non-fibrous (Other)	**2.00%** **Chrysotile**
T301-A2-Wall System Composite *022104742-0073C*	DWS	Brown/Gray/Beige Non-Fibrous Homogeneous	30% Cellulose	2% Ca Carbonate 67.75% Non-fibrous (Other)	**0.25%** **Chrysotile**
T301-A3-Joint Compound *022104742-0074A*	DWS	Tan/White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 78.5% Non-fibrous (Other)	**1.50%** **Chrysotile**
T301-A3-Wall System Composite *022104742-0074C*	DWS	Brown/Gray/Beige Fibrous Heterogeneous	20% Cellulose	2% Ca Carbonate 77.50% Non-fibrous (Other)	**0.50%** **Chrysotile**

Analyst(s)

Scott Combs (14)

Stephen Bennett, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228, West Virginia LT000321

Initial report from: 07/29/2021 08:48:07

MILLENNIUM
CONSULTING ASSOCIATES
A MECA Consulting, Inc. Company

APPENDIX C

Lead Laboratory Data, Chain of Custodies and Laboratory Certifications

EMSL Analytical, Inc
464 McCormick Street, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
http://www.EMSL.com sanleandrolab@emsl.com

EMSL Order:	092109222
CustomerID:	MECA62
CustomerPO:	KE210615-2
ProjectID:	

Attn: **Jeremy Malson**
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Phone: (925) 808-6700
Fax:
Received: 6/21/2021 09:30 AM
Collected: 6/15/2021

Project: **21015.2001 INTERMAINTAIN REC**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Weight*	*Lead Concentration*
T101-PB1	*092109222-0001*	6/15/2021	6/23/2021	0.2808 g	310 ppm
	Site: INTERIOR-PRIMARY				
T101-PB2	*092109222-0002*	6/15/2021	6/23/2021	0.0663 g	<300 ppm
	Site: INT. DOOR TRIM WOOD				
T101-PB3	*092109222-0003*	6/15/2021	6/23/2021	0.2709 g	240 ppm
	Site: INT. WOOD DOOR TRIM-OFFICE				
T101-PB4	*092109222-0004*	6/15/2021	6/23/2021	0.0982 g	<200 ppm
	Site: EXT. FRONT SIGNAGE				
T102-PB1	*092109222-0005*	6/15/2021	6/23/2021	0.287 g	<80 ppm
	Site: INTERIOR-PRIMARY				
T102-PB2	*092109222-0006*	6/15/2021	6/23/2021	0.2708 g	610 ppm
	Site: WHITE DOOR TRIM				
T102-PB3	*092109222-0007*	6/15/2021	6/23/2021	0.256 g	230 ppm
	Site: EXT. PRIMARY				
T103-PB1	*092109222-0008*	6/15/2021	6/23/2021	0.1815 g	<110 ppm
	Site: EXT. WOOD DOOR TRIM STORAGE ROOMS				
T103-PB2	*092109222-0009*	6/15/2021	6/23/2021	0.2828 g	<80 ppm
	Site: EXT WOOD TRIM ROLL UP DOOR FRAME				
T104-PB1	*092109222-0010*	6/15/2021	6/23/2021	0.2561 g	<80 ppm
	Site: INT. PRIMARY WOOD WALL				
T202-PB1	*092109222-0011*	6/15/2021	6/23/2021	0.266 g	51000 ppm
	Site: INT. PRIMARY				
T202-PB2	*092109222-0012*	6/15/2021	6/23/2021	0.165 g	30000 ppm
	Site: INT. DOOR FRAME TRIM				
T202-PB3	*092109222-0013*	6/15/2021	6/23/2021	0.2671 g	60000 ppm
	Site: WOOD TRIM-NORTH				
T202-PB4	*092109222-0014*	6/15/2021	6/23/2021	0.2537 g	37000 ppm
	Site: EXT. NORTH METAL FIXTURE ABOVE DOORS				
T203-PB1	*092109222-0015*	6/15/2021	6/23/2021	0.2598 g	330 ppm
	Site: EXT OLD WINDOW SILL				

Julian Neagu, Lead Laboratory Manager
or other approved signatory

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Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.
Samples analyzed by EMSL Analytical, Inc San Leandro, CA AIHA-LAP, LLC-ELLAP Accredited #101748

Initial report from 06/23/2021 15:09:56

EMSL Analytical, Inc
464 McCormick Street, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
http://www.EMSL.com sanleandrolab@emsl.com

EMSL Order:	092109222
CustomerID:	MECA62
CustomerPO:	KE210615-2
ProjectID:	

Attn: **Jeremy Malson**
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Phone: (925) 808-6700
Fax:
Received: 6/21/2021 09:30 AM
Collected: 6/15/2021

Project: **21015.2001 INTERMAINTAIN REC**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Weight*	*Lead Concentration*
T203-PB2	*092109222-0016*	6/15/2021	6/23/2021	0.2621 g	130000 ppm
	Site: INT. SOUTH ROOM				
T203-PB3	*092109222-0017*	6/15/2021	6/23/2021	0.2571 g	<80 ppm
	Site: METAL SIDING (MAJORITY OF BUILDING)				
T204-PB1	*092109222-0018*	6/15/2021	6/23/2021	0.257 g	99 ppm
	Site: INTERIOR WOOD WALL				
T204-PB2	*092109222-0019*	6/15/2021	6/23/2021	0.2786 g	<80 ppm
	Site: EXT PRIMARY WOOD WALL				
T206-PB1	*092109222-0020*	6/15/2021	6/23/2021	0.2278 g	<88 ppm
	Site: INT PRIMARY				
T207-PB1	*092109222-0021*	6/15/2021	6/23/2021	0.0992 g	<200 ppm
	Site: INT PRIMARY				
T208-PB1	*092109222-0022*	6/15/2021	6/23/2021	0.1091 g	<180 ppm
	Site: EXT PRIMARY-CENTER STORAGE				
T208-PB2	*092109222-0023*	6/15/2021	6/23/2021	0.2636 g	130 ppm
	Site: INT WOOD SIDING				
T301-PB1	*092109222-0024*	6/15/2021	6/23/2021	0.2518 g	<80 ppm
	Site: INT PRIMARY				
T301-PB2	*092109222-0025*	6/15/2021	6/23/2021	0.166 g	3500 ppm
	Site: KITCHEN-CUPBOARD TRIM				
T301-PB3	*092109222-0026*	6/15/2021	6/23/2021	0.2739 g	<80 ppm
	Site: EXT. FRONT DOOR TRIM WOOD				
T301-PB4	*092109222-0027*	6/15/2021	6/23/2021	0.2765 g	<80 ppm
	Site: EXT PRIMARY				
T302-PB1	*092109222-0028*	6/15/2021	6/23/2021	0.2824 g	<80 ppm
	Site: WOOD DOOR TRIM INT				
T302-PB2	*092109222-0029*	6/15/2021	6/23/2021	0.2721 g	<80 ppm
	Site: EXT PRIMARY				
TMS-PB1	*092109222-0030*	6/15/2021	6/23/2021	0.2731 g	240 ppm
	Site: MINT STILL BLDG-FUEL TANKS-EAST				

Julian Neagu, Lead Laboratory Manager
or other approved signatory

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Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA AIHA-LAP, LLC-ELLAP Accredited #101748

Initial report from 06/23/2021 15:09:56

OrderID: 092109222

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 092109222

EMSL ANALYTICAL, INC.
464 McCormick Street
San Leandro, CA 94577
PHONE: (510) 895-3675
FAX: (510) 895-3680

Company : Millennium Consulting Associates	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 401 Roland Way, Ste 250	
City: Oakland **State/Province:** CA	**Zip/Postal Code:** 94621 **Country:** USA
Report To (Name): J. Maison | A. Grisette	**Telephone #:** 925-808-6700
Email Address: jfeiner@mecaenviro.com	**Fax #:** **Purchase Order:** KE210615-2
Project Name/Number: 21015.2001 Intermountain PEC	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken: CA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☒ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☒ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☒
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: K.Lee \| A. Grisette **Signature of Sampler:**

Sample #	Sample Description	Location	Date/Time Sampled
T101- Pb 1	White paint	Interior-primary	6/15/21
Pb 2	Dark grey paint	Int. Door trim wood	
Pb 3	light grey paint over brown	int. wood door trim- office	
Pb 4	Red paint	Ext. Front signage	
T102- Pb 1	White paint	Interior - primary	

Client Sample #'s - **Total # of Samples:** 30

Relinquished (Client):	K.Lee	**Date:**	6/18/21	**Time:**	1600
Received (Lab):		**Date:**	6/21/21	**Time:**	9:30am

Comments:

Controlled Document — Lead (Pb) COC – R6– 5/12/2012

OrderID: 092109222

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 092109222

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Sample Description	Location	Date/Time Sampled
T102	Pb2	White paint	white door trim	6/15/21
↓	Pb3	Beige paint	Ext. primary	↓
T103	Pb1	Yellow paint	Ext. wood door trim storage rooms	
↓	Pb2	yellow paint	Ext. wood trim Roll up door frame	
T104	Pb1	White paint	Int. Primary wood wall	
T202	Pb1	white paint	Int. primary	
↓	Pb2	white paint	Int. door frame trim	
↓	Pb3	yellow paint	wood trim - North	
↓	Pb4	Grey paint	Ext. North metal fixture above doors	
T203	Pb1	yellow paint	Ext. old window sill	
↓	Pb2	Grey paint	Int. South room	
↓	Pb3	Yellow paint	metal siding (majority of building)	
T204	Pb1	White paint	interior wood wall	
↓	Pb2	Beige paint	Ext. primary wood wall	
T206	Pb1	White paint	Int. primary	
T207	Pb1	White paint	Int. primary	
T208	Pb1	Beige paint	Ext. primary - center storage	
↓	Pb2	white paint	Int. wood siding	↓

Comments/Special Instructions:

Page 2 of 3 pages

Received: JM
6/22/21
9:30am

OrderID: 092109222

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):* 092109222

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Location	Date/Time Sampled
T301- Pb1	white paint	Int. primary	6/15/21
Pb2	white paint	Kitchen - cupboard trim	
Pb3	white paint	Ext. Front door trim wood	
Pb4	Beige paint	Ext. primary	
T302- Pb1	white paint	wood door trim int.	
Pb2	Beige paint	Ext. primary	
TMS- Pb1	Grey paint	Mint still Bldg - Fuel Tanks - East	

Comments/Special Instructions:

Page 3 of 3 pages

Received:
6/21/21
9:30am

MILLENNIUM
CONSULTING ASSOCIATES
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APPENDIX D

PCB Laboratory Data, Chain of Custodies and Laboratory Certifications

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Jenice Feiner**
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588
Phone: (925) 808-6700
Fax:

6/29/2021

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/22/2021. The results are tabulated on the attached data pages for the following client designated project:

21015.2001 UC ANR Intermountain REC

The reference number for these samples is EMSL Order #012106758. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The reporting limits for samples -0004 and -0006 are elevated due to limited sample amount provided.

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order: 012106758
CustomerID: MECA62
CustomerPO: KE210615-3
ProjectID:

Attn: **Jenice Feiner**
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Phone: (925) 808-6700
Fax:
Received: 06/22/21 9:30 AM

Project: **21015.2001 UC ANR Intermountain REC**

Analytical Results

Client Sample Description T101-PCB1
B101-Interior window caulking
Collected: 6/15/2021 ***Lab ID:*** *012106758-0001*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	0.77	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1254	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND	0.34	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

Client Sample Description T103-PCB1
B103-Int wood wall panel white caulking
Collected: 6/15/2021 ***Lab ID:*** *012106758-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1254	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND D	0.47	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

Client Sample Description T202-PCB1
B202-Dry closets white caulking
Collected: 6/15/2021 ***Lab ID:*** *012106758-0003*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	012106758
CustomerID:	MECA62
CustomerPO:	KE210615-3
ProjectID:	

Attn: **Jenice Feiner**
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Phone: (925) 808-6700
Fax:
Received: 06/22/21 9:30 AM

Project: **21015.2001 UC ANR Intermountain REC**

Analytical Results

Client Sample Description T202-PCB1
B202-Dry closets white caulking
Collected: 6/15/2021 ***Lab ID:*** *012106758-0003*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1254	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND D	0.44	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

Client Sample Description T203-PCB1
B203 Pink insulation
Collected: 6/15/2021 ***Lab ID:*** *012106758-0004*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1254	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND	0.52	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

Client Sample Description T203-PCB2
B203-East window caulking
Collected: 6/15/2021 ***Lab ID:*** *012106758-0005*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1254	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND D	0.45	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

EMSL Analytical, Inc.
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Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	012106758
CustomerID:	MECA62
CustomerPO:	KE210615-3
ProjectID:	

Attn: **Jenice Feiner**
Millennium Consulting Associates, Inc.
4683 Chabot Drive, Suite 380
Pleasanton, CA 94588

Phone: (925) 808-6700
Fax:
Received: 06/22/21 9:30 AM

Project: **21015.2001 UC ANR Intermountain REC**

Analytical Results

Client Sample Description T205-PCB1
B205-Ext. vent south grey mastic
Collected: 6/15/2021 ***Lab ID:*** *012106758-0006*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1254	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND	0.94	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

Client Sample Description TMS-PCB1
Mint still-wall yellow insulation
Collected: 6/15/2021 ***Lab ID:*** *012106758-0007*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082	Aroclor-1016	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1221	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1232	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1242	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1248	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1254	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1260	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1262	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH
3540C/8082	Aroclor-1268	ND	0.43	mg/Kg	6/23/2021	PG	06/24/21 0:00	EH

Definitions:

MDL - method detection limit
J - Result was below the reporting limit, but at or above the MDL
ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)
D - Dilution Sample required a dilution which was used to calculate final results

EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 012106758

ROW ID: T005390

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: J. Maison | A. Grissette		**Bill To Company:** Millennium Consulting Associates	
Company Name: Millennium Consulting Associates		**Attention To:** Jenice Feiner	
Street: 401 Roland Way, Ste. 250		**Street:** 401 Roland Way, Ste. 250	
City: Oakland	**State/Province:** CA **Zip/Postal Code:** 94621	**City:** Oakland	**State/Province:** CA **Zip/Postal Code:** 94621
Phone : 925/808-6700	**Fax :** 925/808-6708	**Phone :** 925/808-6700	**Fax :** 925/808-6708
Project Name: 21015.2001 VC ANR Intermountain REC			**U.S. State where Samples Collected:** CA
Number of Samples in Shipment: 7	**Date of Shipment:** 6/18/21	**Purchase Order:** KE210615-3	**Sampled By (Signature):** K Lee
Please Provide results: ☐ Fax ☒ Email ☐ Mail		**Email Results To:** jfeiner@mecaenviro.com	

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: BULK (EPA 8082A | PCBs)
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
☐	☒	☐	☐	☐	☐	☐ _____	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
T101- PCB1	BULK	E8082A	— KE	6/15/21	B101 - interior	window caulking
T103- PCB1	↓	↓	↓	↓	B103- int. wood wall panel	white caulking
T202- PCB1					B202- dry closets	white caulking
T203- PCB1					B203	pink insulation
↳ PCB2					↓ -East	window caulking
T205- PCB1					B205- Ext. vent south	Grey mastic
T-MS- PCB1					Mint still- wall	yellow insulation

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
K Lee	6/18/21	FX 9:30am	6/22/21
MA	6/21/21 4:00pm	Colleen Palladino	6/22/21 9:38AM

Comments:

(7)

OrderID: 012106758

17.6°C rec'd in plastic

MILLENNIUM
CONSULTING ASSOCIATES
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APPENDIX E

Soil Laboratory Data, Chain of Custodies and Laboratory Certifications

ANALYTICAL REPORT

July 02, 2021

Millennium Consulting - Oakland, CA

Sample Delivery Group:	L1368753
Samples Received:	06/19/2021
Project Number:	21015.2001
Description:	UC ANR Intermountain REC

Report To:

Jeremy Malson
401 Roland Way
Ste 250
Oakland, CA 94621

Entire Report Reviewed By:

Jennifer Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

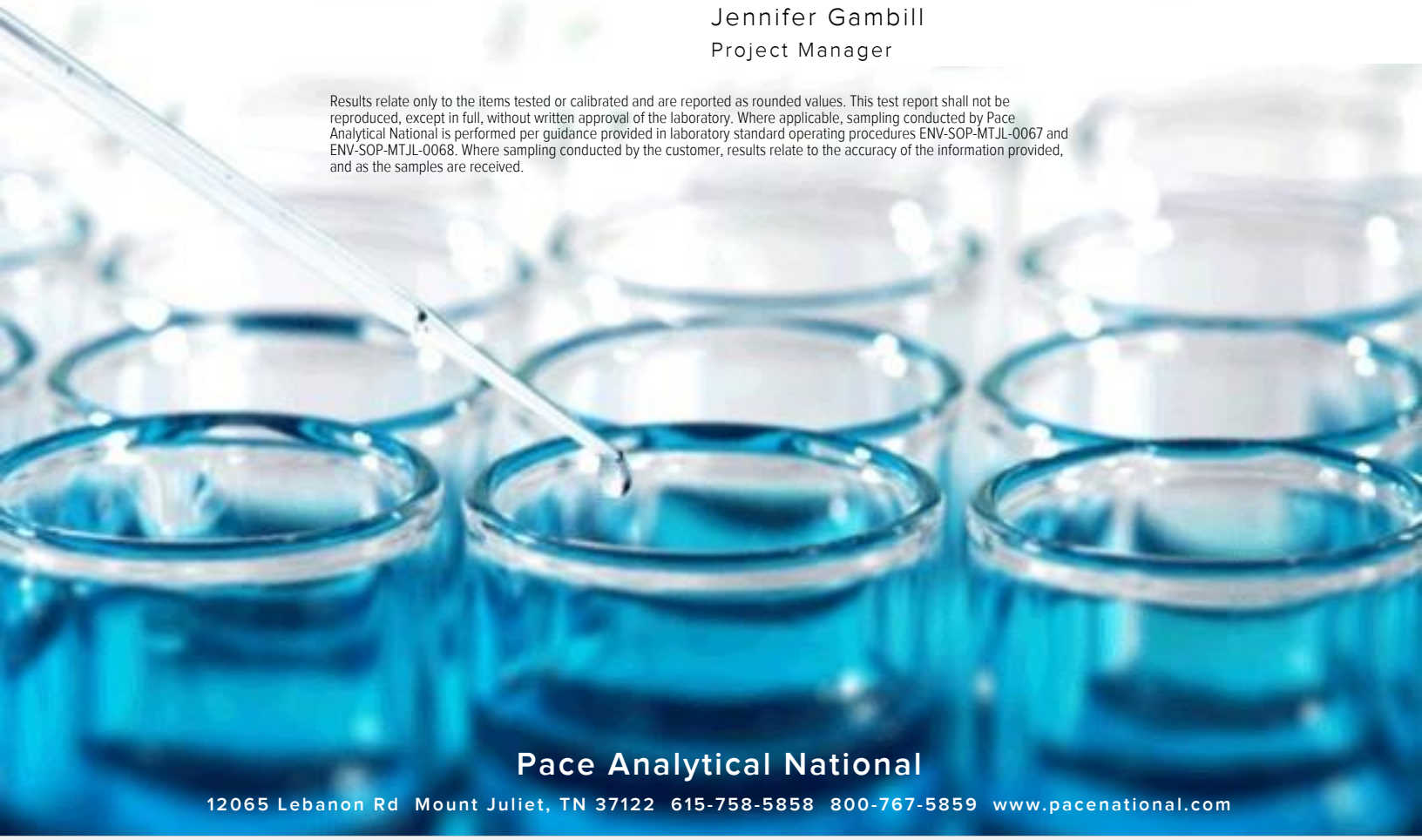


TABLE OF CONTENTS

S-01 L1368753-01 Solid

Collected by: K. Efe | Collected date/time: 06/16/21 11:00 | Received date/time: 06/19/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1694742	1	06/26/21 11:41	06/26/21 12:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1696883	1	06/24/21 10:36	06/29/21 13:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1693818	200	06/25/21 08:09	06/26/21 17:35	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1693818	50	06/25/21 08:09	06/25/21 22:51	JDG	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1694753	1	06/24/21 23:24	06/26/21 18:40	MTJ	Mt. Juliet, TN
OP Pesticides by Method 8141	WG1692035	1	06/23/21 04:28	06/25/21 13:19	JMB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1696038	1	06/30/21 01:01	07/01/21 13:04	MTJ	Mt. Juliet, TN

S-COMP-02&04 L1368753-02 Solid

Collected by: K. Efe | Collected date/time: 06/16/21 11:30 | Received date/time: 06/19/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1694742	1	06/26/21 11:41	06/26/21 12:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1696883	1	06/24/21 10:36	06/29/21 14:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1693818	10	06/25/21 08:09	06/25/21 22:21	JDG	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1694753	1	06/24/21 23:24	06/26/21 18:55	MTJ	Mt. Juliet, TN
OP Pesticides by Method 8141	WG1692035	1	06/23/21 04:28	06/25/21 13:52	JMB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1696038	1	06/30/21 01:01	07/01/21 13:16	MTJ	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1696038	2	06/30/21 01:01	07/01/21 18:19	HMH	Mt. Juliet, TN

S-03 L1368753-03 Solid

Collected by: K. Efe | Collected date/time: 06/16/21 11:20 | Received date/time: 06/19/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1694742	1	06/26/21 11:41	06/26/21 12:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1696883	1	06/24/21 10:36	06/29/21 14:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1693818	10	06/25/21 08:09	06/25/21 22:36	JDG	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1694753	1	06/24/21 23:24	06/26/21 19:09	MTJ	Mt. Juliet, TN
OP Pesticides by Method 8141	WG1692035	1	06/23/21 04:28	06/25/21 14:26	JMB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1696038	1	06/30/21 01:01	07/01/21 17:05	HMH	Mt. Juliet, TN

S-05 L1368753-04 Solid

Collected by: K. Efe | Collected date/time: 06/16/21 11:40 | Received date/time: 06/19/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1694742	1	06/26/21 11:41	06/26/21 12:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1696883	1	06/24/21 10:36	06/29/21 15:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1693818	2	06/25/21 08:09	06/25/21 22:07	JDG	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1694753	1	06/24/21 23:24	06/26/21 19:24	MTJ	Mt. Juliet, TN
OP Pesticides by Method 8141	WG1692035	1	06/23/21 04:28	06/25/21 14:59	JMB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1696038	1	06/30/21 01:01	07/01/21 17:17	HMH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Gambill
Project Manager

Project Narrative

Method 8081: TEPP is reporting with critically low recovery in the laboratory control sample(s). This compound is a method defined poor performer. Results are estimated.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	06/26/2021 12:33	WG1694742

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	U		0.0332	0.100	1	06/29/2021 13:58	WG1696883
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*06/29/2021 13:58*	WG1696883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	1230		36.7	200	50	06/25/2021 22:51	WG1693818
C22-C32 Hydrocarbons	19300		266	800	200	06/26/2021 17:35	WG1693818
C32-C40 Hydrocarbons	4110		66.5	200	50	06/25/2021 22:51	WG1693818
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*06/26/2021 17:35*	WG1693818
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*06/25/2021 22:51*	WG1693818

Chlorinated Acid Herbicides (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
2,4-D	U		0.00702	0.0700	1	06/26/2021 18:40	WG1694753
Dalapon	U		0.0113	0.0700	1	06/26/2021 18:40	WG1694753
2,4-DB	U		0.0297	0.0700	1	06/26/2021 18:40	WG1694753
Dicamba	U		0.0157	0.0700	1	06/26/2021 18:40	WG1694753
Dichloroprop	U		0.0245	0.0700	1	06/26/2021 18:40	WG1694753
Dinoseb	U		0.00697	0.0700	1	06/26/2021 18:40	WG1694753
MCPA	U	J4	0.443	6.50	1	06/26/2021 18:40	WG1694753
MCPP	U	J4	0.367	6.50	1	06/26/2021 18:40	WG1694753
2,4,5-T	U		0.00852	0.0700	1	06/26/2021 18:40	WG1694753
2,4,5-TP (Silvex)	U		0.0107	0.0700	1	06/26/2021 18:40	WG1694753
(S) 2,4-Dichlorophenyl Acetic Acid	*66.3*			*22.0-132*		*06/26/2021 18:40*	WG1694753

OP Pesticides by Method 8141

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Azinphos-Methyl	U		0.0318	0.100	1	06/25/2021 13:19	WG1692035
Bolstar (Sulprofos)	U		0.0149	0.100	1	06/25/2021 13:19	WG1692035
Chlorpyrifos	U		0.0157	0.100	1	06/25/2021 13:19	WG1692035
Coumaphos	U		0.0243	0.100	1	06/25/2021 13:19	WG1692035
Demeton,-O and -S	U		0.00584	0.0700	1	06/25/2021 13:19	WG1692035
Diazinon	U		0.0225	0.100	1	06/25/2021 13:19	WG1692035
Dichlorvos	U		0.0300	0.100	1	06/25/2021 13:19	WG1692035
Dimethoate	U		0.0334	0.100	1	06/25/2021 13:19	WG1692035
Disulfoton	U		0.0254	0.100	1	06/25/2021 13:19	WG1692035
EPN	U		0.0276	0.100	1	06/25/2021 13:19	WG1692035
Ethoprop	U		0.0118	0.100	1	06/25/2021 13:19	WG1692035
Ethyl Parathion	U		0.0164	0.100	1	06/25/2021 13:19	WG1692035
Fensulfothion	U		0.0353	0.100	1	06/25/2021 13:19	WG1692035
Fenthion	U		0.0133	0.100	1	06/25/2021 13:19	WG1692035
Malathion	U		0.0179	0.100	1	06/25/2021 13:19	WG1692035
Merphos	U		0.0232	0.100	1	06/25/2021 13:19	WG1692035
Methyl parathion	U		0.0203	0.100	1	06/25/2021 13:19	WG1692035
Mevinphos	U		0.0230	0.100	1	06/25/2021 13:19	WG1692035

OP Pesticides by Method 8141

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Naled	U		0.0480	0.100	1	06/25/2021 13:19	WG1692035
Phorate	U		0.0210	0.100	1	06/25/2021 13:19	WG1692035
Ronnel	U		0.0149	0.100	1	06/25/2021 13:19	WG1692035
Stirophos	U		0.0178	0.100	1	06/25/2021 13:19	WG1692035
Sulfotep	U		0.00986	0.100	1	06/25/2021 13:19	WG1692035
TEPP	U	J4	0.157	1.00	1	06/25/2021 13:19	WG1692035
Tokuthion (Prothothiofos)	U		0.0150	0.100	1	06/25/2021 13:19	WG1692035
Trichloronate	U		0.0201	0.100	1	06/25/2021 13:19	WG1692035
(S) Triphenyl Phosphate	*48.5*			*36.0-121*		*06/25/2021 13:19*	WG1692035

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00376	0.0200	1	07/01/2021 13:04	WG1696038
Alpha BHC	U		0.00368	0.0200	1	07/01/2021 13:04	WG1696038
Beta BHC	U		0.00379	0.0200	1	07/01/2021 13:04	WG1696038
Delta BHC	U		0.00346	0.0200	1	07/01/2021 13:04	WG1696038
Gamma BHC	U		0.00344	0.0200	1	07/01/2021 13:04	WG1696038
4,4-DDD	U		0.00370	0.0200	1	07/01/2021 13:04	WG1696038
4,4-DDE	U		0.00366	0.0200	1	07/01/2021 13:04	WG1696038
4,4-DDT	U		0.00627	0.0200	1	07/01/2021 13:04	WG1696038
Dieldrin	U		0.00344	0.0200	1	07/01/2021 13:04	WG1696038
Endosulfan I	U		0.00363	0.0200	1	07/01/2021 13:04	WG1696038
Endosulfan II	U		0.00335	0.0200	1	07/01/2021 13:04	WG1696038
Endosulfan sulfate	U		0.00364	0.0200	1	07/01/2021 13:04	WG1696038
Endrin	U		0.00350	0.0200	1	07/01/2021 13:04	WG1696038
Endrin aldehyde	U	J4	0.00339	0.0200	1	07/01/2021 13:04	WG1696038
Endrin ketone	U		0.00711	0.0200	1	07/01/2021 13:04	WG1696038
Heptachlor	U		0.00428	0.0200	1	07/01/2021 13:04	WG1696038
Heptachlor epoxide	U		0.00339	0.0200	1	07/01/2021 13:04	WG1696038
Hexachlorobenzene	U		0.00346	0.0200	1	07/01/2021 13:04	WG1696038
Methoxychlor	U		0.00484	0.0200	1	07/01/2021 13:04	WG1696038
Chlordane	U		0.103	0.300	1	07/01/2021 13:04	WG1696038
Toxaphene	U		0.124	0.400	1	07/01/2021 13:04	WG1696038
(S) Decachlorobiphenyl	*105*			*10.0-135*		*07/01/2021 13:04*	WG1696038
(S) Tetrachloro-m-xylene	*76.7*			*10.0-139*		*07/01/2021 13:04*	WG1696038

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	06/26/2021 12:33	WG1694742

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0496	J	0.0332	0.100	1	06/29/2021 14:20	WG1696883
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*77.0-120*		*06/29/2021 14:20*	WG1696883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	13.9	J	7.33	40.0	10	06/25/2021 22:21	WG1693818
C22-C32 Hydrocarbons	128		13.3	40.0	10	06/25/2021 22:21	WG1693818
C32-C40 Hydrocarbons	114		13.3	40.0	10	06/25/2021 22:21	WG1693818
(S) o-Terphenyl	*66.9*			*18.0-148*		*06/25/2021 22:21*	WG1693818

Sample Narrative:

L1368753-02 WG1693818: Cannot run at lower dilution due to viscosity of extract

Chlorinated Acid Herbicides (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
2,4-D	U		0.00702	0.0700	1	06/26/2021 18:55	WG1694753
Dalapon	U		0.0113	0.0700	1	06/26/2021 18:55	WG1694753
2,4-DB	U		0.0297	0.0700	1	06/26/2021 18:55	WG1694753
Dicamba	U		0.0157	0.0700	1	06/26/2021 18:55	WG1694753
Dichloroprop	U		0.0245	0.0700	1	06/26/2021 18:55	WG1694753
Dinoseb	U		0.00697	0.0700	1	06/26/2021 18:55	WG1694753
MCPA	U	J4	0.443	6.50	1	06/26/2021 18:55	WG1694753
MCPP	U	J4	0.367	6.50	1	06/26/2021 18:55	WG1694753
2,4,5-T	U		0.00852	0.0700	1	06/26/2021 18:55	WG1694753
2,4,5-TP (Silvex)	U		0.0107	0.0700	1	06/26/2021 18:55	WG1694753
(S) 2,4-Dichlorophenyl Acetic Acid	*58.1*			*22.0-132*		*06/26/2021 18:55*	WG1694753

OP Pesticides by Method 8141

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Azinphos-Methyl	U		0.0318	0.100	1	06/25/2021 13:52	WG1692035
Bolstar (Sulprofos)	U		0.0149	0.100	1	06/25/2021 13:52	WG1692035
Chlorpyrifos	U		0.0157	0.100	1	06/25/2021 13:52	WG1692035
Coumaphos	U		0.0243	0.100	1	06/25/2021 13:52	WG1692035
Demeton,-O and -S	U		0.00584	0.0700	1	06/25/2021 13:52	WG1692035
Diazinon	U		0.0225	0.100	1	06/25/2021 13:52	WG1692035
Dichlorvos	U		0.0300	0.100	1	06/25/2021 13:52	WG1692035
Dimethoate	U		0.0334	0.100	1	06/25/2021 13:52	WG1692035
Disulfoton	U		0.0254	0.100	1	06/25/2021 13:52	WG1692035
EPN	U		0.0276	0.100	1	06/25/2021 13:52	WG1692035
Ethoprop	U		0.0118	0.100	1	06/25/2021 13:52	WG1692035
Ethyl Parathion	U		0.0164	0.100	1	06/25/2021 13:52	WG1692035
Fensulfothion	U		0.0353	0.100	1	06/25/2021 13:52	WG1692035
Fenthion	U		0.0133	0.100	1	06/25/2021 13:52	WG1692035
Malathion	U		0.0179	0.100	1	06/25/2021 13:52	WG1692035
Merphos	U		0.0232	0.100	1	06/25/2021 13:52	WG1692035

OP Pesticides by Method 8141

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Methyl parathion	U		0.0203	0.100	1	06/25/2021 13:52	WG1692035
Mevinphos	U		0.0230	0.100	1	06/25/2021 13:52	WG1692035
Naled	U		0.0480	0.100	1	06/25/2021 13:52	WG1692035
Phorate	U		0.0210	0.100	1	06/25/2021 13:52	WG1692035
Ronnel	U		0.0149	0.100	1	06/25/2021 13:52	WG1692035
Stirophos	U		0.0178	0.100	1	06/25/2021 13:52	WG1692035
Sulfotep	U		0.00986	0.100	1	06/25/2021 13:52	WG1692035
TEPP	U	J4	0.157	1.00	1	06/25/2021 13:52	WG1692035
Tokuthion (Prothothiofos)	U		0.0150	0.100	1	06/25/2021 13:52	WG1692035
Trichloronate	U		0.0201	0.100	1	06/25/2021 13:52	WG1692035
(S) Triphenyl Phosphate	*78.1*			*36.0-121*		*06/25/2021 13:52*	WG1692035

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00376	0.0200	1	07/01/2021 13:16	WG1696038
Alpha BHC	U		0.00368	0.0200	1	07/01/2021 13:16	WG1696038
Beta BHC	U		0.00379	0.0200	1	07/01/2021 13:16	WG1696038
Delta BHC	U		0.00346	0.0200	1	07/01/2021 13:16	WG1696038
Gamma BHC	U		0.00344	0.0200	1	07/01/2021 13:16	WG1696038
4,4-DDD	U		0.00370	0.0200	1	07/01/2021 13:16	WG1696038
4,4-DDE	U		0.00366	0.0200	1	07/01/2021 13:16	WG1696038
4,4-DDT	U		0.00627	0.0200	1	07/01/2021 13:16	WG1696038
Dieldrin	0.128		0.00344	0.0200	1	07/01/2021 13:16	WG1696038
Endosulfan I	U		0.00363	0.0200	1	07/01/2021 13:16	WG1696038
Endosulfan II	U		0.00335	0.0200	1	07/01/2021 13:16	WG1696038
Endosulfan sulfate	U		0.00364	0.0200	1	07/01/2021 13:16	WG1696038
Endrin	U		0.00350	0.0200	1	07/01/2021 13:16	WG1696038
Endrin aldehyde	U	J4	0.00339	0.0200	1	07/01/2021 13:16	WG1696038
Endrin ketone	U		0.00711	0.0200	1	07/01/2021 13:16	WG1696038
Heptachlor	U		0.00428	0.0200	1	07/01/2021 13:16	WG1696038
Heptachlor epoxide	U		0.00339	0.0200	1	07/01/2021 13:16	WG1696038
Hexachlorobenzene	0.00862	J	0.00346	0.0200	1	07/01/2021 13:16	WG1696038
Methoxychlor	U		0.00484	0.0200	1	07/01/2021 13:16	WG1696038
Chlordane	U		0.103	0.300	1	07/01/2021 13:16	WG1696038
Toxaphene	2.23		0.248	0.800	2	07/01/2021 18:19	WG1696038
(S) Decachlorobiphenyl	*71.1*			*10.0-135*		*07/01/2021 18:19*	WG1696038
(S) Decachlorobiphenyl	*91.2*			*10.0-135*		*07/01/2021 13:16*	WG1696038
(S) Tetrachloro-m-xylene	*80.2*			*10.0-139*		*07/01/2021 13:16*	WG1696038
(S) Tetrachloro-m-xylene	*64.9*			*10.0-139*		*07/01/2021 18:19*	WG1696038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	06/26/2021 12:33	WG1694742

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	U		0.0332	0.100	1	06/29/2021 14:42	WG1696883
(S) a,a,a-Trifluorotoluene(FID)	*90.2*			*77.0-120*		*06/29/2021 14:42*	WG1696883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	10.4	J	7.33	40.0	10	06/25/2021 22:36	WG1693818
C22-C32 Hydrocarbons	115		13.3	40.0	10	06/25/2021 22:36	WG1693818
C32-C40 Hydrocarbons	88.9		13.3	40.0	10	06/25/2021 22:36	WG1693818
(S) o-Terphenyl	*63.7*			*18.0-148*		*06/25/2021 22:36*	WG1693818

Sample Narrative:

L1368753-03 WG1693818: Cannot run at lower dilution due to viscosity of extract

Chlorinated Acid Herbicides (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
2,4-D	U		0.00702	0.0700	1	06/26/2021 19:09	WG1694753
Dalapon	U		0.0113	0.0700	1	06/26/2021 19:09	WG1694753
2,4-DB	U		0.0297	0.0700	1	06/26/2021 19:09	WG1694753
Dicamba	U		0.0157	0.0700	1	06/26/2021 19:09	WG1694753
Dichloroprop	U		0.0245	0.0700	1	06/26/2021 19:09	WG1694753
Dinoseb	U		0.00697	0.0700	1	06/26/2021 19:09	WG1694753
MCPA	U	J4	0.443	6.50	1	06/26/2021 19:09	WG1694753
MCPP	U	J4	0.367	6.50	1	06/26/2021 19:09	WG1694753
2,4,5-T	U		0.00852	0.0700	1	06/26/2021 19:09	WG1694753
2,4,5-TP (Silvex)	U		0.0107	0.0700	1	06/26/2021 19:09	WG1694753
(S) 2,4-Dichlorophenyl Acetic Acid	*63.8*			*22.0-132*		*06/26/2021 19:09*	WG1694753

OP Pesticides by Method 8141

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Azinphos-Methyl	U		0.0318	0.100	1	06/25/2021 14:26	WG1692035
Bolstar (Sulprofos)	U		0.0149	0.100	1	06/25/2021 14:26	WG1692035
Chlorpyrifos	U		0.0157	0.100	1	06/25/2021 14:26	WG1692035
Coumaphos	U		0.0243	0.100	1	06/25/2021 14:26	WG1692035
Demeton,-O and -S	U		0.00584	0.0700	1	06/25/2021 14:26	WG1692035
Diazinon	U		0.0225	0.100	1	06/25/2021 14:26	WG1692035
Dichlorvos	U		0.0300	0.100	1	06/25/2021 14:26	WG1692035
Dimethoate	U		0.0334	0.100	1	06/25/2021 14:26	WG1692035
Disulfoton	U		0.0254	0.100	1	06/25/2021 14:26	WG1692035
EPN	U		0.0276	0.100	1	06/25/2021 14:26	WG1692035
Ethoprop	U		0.0118	0.100	1	06/25/2021 14:26	WG1692035
Ethyl Parathion	U		0.0164	0.100	1	06/25/2021 14:26	WG1692035
Fensulfothion	U		0.0353	0.100	1	06/25/2021 14:26	WG1692035
Fenthion	U		0.0133	0.100	1	06/25/2021 14:26	WG1692035
Malathion	U		0.0179	0.100	1	06/25/2021 14:26	WG1692035
Merphos	U		0.0232	0.100	1	06/25/2021 14:26	WG1692035

OP Pesticides by Method 8141

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Methyl parathion	U		0.0203	0.100	1	06/25/2021 14:26	WG1692035
Mevinphos	U		0.0230	0.100	1	06/25/2021 14:26	WG1692035
Naled	U		0.0480	0.100	1	06/25/2021 14:26	WG1692035
Phorate	U		0.0210	0.100	1	06/25/2021 14:26	WG1692035
Ronnel	U		0.0149	0.100	1	06/25/2021 14:26	WG1692035
Stirophos	U		0.0178	0.100	1	06/25/2021 14:26	WG1692035
Sulfotep	U		0.00986	0.100	1	06/25/2021 14:26	WG1692035
TEPP	U	J4	0.157	1.00	1	06/25/2021 14:26	WG1692035
Tokuthion (Prothothiofos)	U		0.0150	0.100	1	06/25/2021 14:26	WG1692035
Trichloronate	U		0.0201	0.100	1	06/25/2021 14:26	WG1692035
(S) Triphenyl Phosphate	*66.6*			*36.0-121*		*06/25/2021 14:26*	WG1692035

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00376	0.0200	1	07/01/2021 17:05	WG1696038
Alpha BHC	U		0.00368	0.0200	1	07/01/2021 17:05	WG1696038
Beta BHC	U		0.00379	0.0200	1	07/01/2021 17:05	WG1696038
Delta BHC	U		0.00346	0.0200	1	07/01/2021 17:05	WG1696038
Gamma BHC	U		0.00344	0.0200	1	07/01/2021 17:05	WG1696038
4,4-DDD	U		0.00370	0.0200	1	07/01/2021 17:05	WG1696038
4,4-DDE	U		0.00366	0.0200	1	07/01/2021 17:05	WG1696038
4,4-DDT	0.00630	J P	0.00627	0.0200	1	07/01/2021 17:05	WG1696038
Dieldrin	0.0130	J P	0.00344	0.0200	1	07/01/2021 17:05	WG1696038
Endosulfan I	U		0.00363	0.0200	1	07/01/2021 17:05	WG1696038
Endosulfan II	U		0.00335	0.0200	1	07/01/2021 17:05	WG1696038
Endosulfan sulfate	U		0.00364	0.0200	1	07/01/2021 17:05	WG1696038
Endrin	U		0.00350	0.0200	1	07/01/2021 17:05	WG1696038
Endrin aldehyde	U	J4	0.00339	0.0200	1	07/01/2021 17:05	WG1696038
Endrin ketone	U		0.00711	0.0200	1	07/01/2021 17:05	WG1696038
Heptachlor	U		0.00428	0.0200	1	07/01/2021 17:05	WG1696038
Heptachlor epoxide	U		0.00339	0.0200	1	07/01/2021 17:05	WG1696038
Hexachlorobenzene	0.0113	J	0.00346	0.0200	1	07/01/2021 17:05	WG1696038
Methoxychlor	U		0.00484	0.0200	1	07/01/2021 17:05	WG1696038
Chlordane	U		0.103	0.300	1	07/01/2021 17:05	WG1696038
Toxaphene	U		0.124	0.400	1	07/01/2021 17:05	WG1696038
(S) Decachlorobiphenyl	*99.4*			*10.0-135*		*07/01/2021 17:05*	WG1696038
(S) Tetrachloro-m-xylene	*97.9*			*10.0-139*		*07/01/2021 17:05*	WG1696038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.1		1	06/26/2021 12:33	WG1694742

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	U		0.0332	0.100	1	06/29/2021 15:04	WG1696883
(S) a,a,a-Trifluorotoluene(FID)	*91.1*			*77.0-120*		*06/29/2021 15:04*	WG1696883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	23.1		1.47	8.00	2	06/25/2021 22:07	WG1693818
C22-C32 Hydrocarbons	108		2.66	8.00	2	06/25/2021 22:07	WG1693818
C32-C40 Hydrocarbons	39.3		2.66	8.00	2	06/25/2021 22:07	WG1693818
(S) o-Terphenyl	*63.2*			*18.0-148*		*06/25/2021 22:07*	WG1693818

Chlorinated Acid Herbicides (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
2,4-D	U		0.00702	0.0700	1	06/26/2021 19:24	WG1694753
Dalapon	U		0.0113	0.0700	1	06/26/2021 19:24	WG1694753
2,4-DB	U		0.0297	0.0700	1	06/26/2021 19:24	WG1694753
Dicamba	U		0.0157	0.0700	1	06/26/2021 19:24	WG1694753
Dichloroprop	U		0.0245	0.0700	1	06/26/2021 19:24	WG1694753
Dinoseb	U		0.00697	0.0700	1	06/26/2021 19:24	WG1694753
MCPA	U	J4	0.443	6.50	1	06/26/2021 19:24	WG1694753
MCPP	U	J4	0.367	6.50	1	06/26/2021 19:24	WG1694753
2,4,5-T	U		0.00852	0.0700	1	06/26/2021 19:24	WG1694753
2,4,5-TP (Silvex)	U		0.0107	0.0700	1	06/26/2021 19:24	WG1694753
(S) 2,4-Dichlorophenyl Acetic Acid	*49.2*			*22.0-132*		*06/26/2021 19:24*	WG1694753

OP Pesticides by Method 8141

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Azinphos-Methyl	U		0.0318	0.100	1	06/25/2021 14:59	WG1692035
Bolstar (Sulprofos)	U		0.0149	0.100	1	06/25/2021 14:59	WG1692035
Chlorpyrifos	U		0.0157	0.100	1	06/25/2021 14:59	WG1692035
Coumaphos	U		0.0243	0.100	1	06/25/2021 14:59	WG1692035
Demeton,-O and -S	U		0.00584	0.0700	1	06/25/2021 14:59	WG1692035
Diazinon	U		0.0225	0.100	1	06/25/2021 14:59	WG1692035
Dichlorvos	U		0.0300	0.100	1	06/25/2021 14:59	WG1692035
Dimethoate	U		0.0334	0.100	1	06/25/2021 14:59	WG1692035
Disulfoton	U		0.0254	0.100	1	06/25/2021 14:59	WG1692035
EPN	U		0.0276	0.100	1	06/25/2021 14:59	WG1692035
Ethoprop	U		0.0118	0.100	1	06/25/2021 14:59	WG1692035
Ethyl Parathion	U		0.0164	0.100	1	06/25/2021 14:59	WG1692035
Fensulfothion	U		0.0353	0.100	1	06/25/2021 14:59	WG1692035
Fenthion	U		0.0133	0.100	1	06/25/2021 14:59	WG1692035
Malathion	U		0.0179	0.100	1	06/25/2021 14:59	WG1692035
Merphos	U		0.0232	0.100	1	06/25/2021 14:59	WG1692035
Methyl parathion	U		0.0203	0.100	1	06/25/2021 14:59	WG1692035
Mevinphos	U		0.0230	0.100	1	06/25/2021 14:59	WG1692035
Naled	U		0.0480	0.100	1	06/25/2021 14:59	WG1692035

OP Pesticides by Method 8141

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Phorate	U		0.0210	0.100	1	06/25/2021 14:59	WG1692035
Ronnel	U		0.0149	0.100	1	06/25/2021 14:59	WG1692035
Stirophos	U		0.0178	0.100	1	06/25/2021 14:59	WG1692035
Sulfotep	U		0.00986	0.100	1	06/25/2021 14:59	WG1692035
TEPP	U	J4	0.157	1.00	1	06/25/2021 14:59	WG1692035
Tokuthion (Prothothiofos)	U		0.0150	0.100	1	06/25/2021 14:59	WG1692035
Trichloronate	U		0.0201	0.100	1	06/25/2021 14:59	WG1692035
(S) Triphenyl Phosphate	*93.7*			*36.0-121*		*06/25/2021 14:59*	WG1692035

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00376	0.0200	1	07/01/2021 17:17	WG1696038
Alpha BHC	U		0.00368	0.0200	1	07/01/2021 17:17	WG1696038
Beta BHC	U		0.00379	0.0200	1	07/01/2021 17:17	WG1696038
Delta BHC	U		0.00346	0.0200	1	07/01/2021 17:17	WG1696038
Gamma BHC	U		0.00344	0.0200	1	07/01/2021 17:17	WG1696038
4,4-DDD	U		0.00370	0.0200	1	07/01/2021 17:17	WG1696038
4,4-DDE	U		0.00366	0.0200	1	07/01/2021 17:17	WG1696038
4,4-DDT	U		0.00627	0.0200	1	07/01/2021 17:17	WG1696038
Dieldrin	0.137		0.00344	0.0200	1	07/01/2021 17:17	WG1696038
Endosulfan I	U		0.00363	0.0200	1	07/01/2021 17:17	WG1696038
Endosulfan II	U		0.00335	0.0200	1	07/01/2021 17:17	WG1696038
Endosulfan sulfate	0.0109	J	0.00364	0.0200	1	07/01/2021 17:17	WG1696038
Endrin	U		0.00350	0.0200	1	07/01/2021 17:17	WG1696038
Endrin aldehyde	U	J4	0.00339	0.0200	1	07/01/2021 17:17	WG1696038
Endrin ketone	U		0.00711	0.0200	1	07/01/2021 17:17	WG1696038
Heptachlor	U		0.00428	0.0200	1	07/01/2021 17:17	WG1696038
Heptachlor epoxide	U		0.00339	0.0200	1	07/01/2021 17:17	WG1696038
Hexachlorobenzene	0.00737	J	0.00346	0.0200	1	07/01/2021 17:17	WG1696038
Methoxychlor	0.00976	J	0.00484	0.0200	1	07/01/2021 17:17	WG1696038
Chlordane	U		0.103	0.300	1	07/01/2021 17:17	WG1696038
Toxaphene	U		0.124	0.400	1	07/01/2021 17:17	WG1696038
(S) Decachlorobiphenyl	*100*			*10.0-135*		*07/01/2021 17:17*	WG1696038
(S) Tetrachloro-m-xylene	*102*			*10.0-139*		*07/01/2021 17:17*	WG1696038

Method Blank (MB)

(MB) R3672673-1 06/26/21 12:33

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1368753-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1368753-01 06/26/21 12:33 • (DUP) R3672673-3 06/26/21 12:33

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.6	96.0	1	0.370		10

Laboratory Control Sample (LCS)

(LCS) R3672673-2 06/26/21 12:33

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3673858-2 06/29/21 12:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	U		0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3673858-1 06/29/21 12:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	6.59	120	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*119*	*77.0-120*	

L1369748-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369748-01 06/29/21 20:38 • (MS) R3673858-3 06/29/21 21:22 • (MSD) R3673858-4 06/29/21 21:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	11000	5240	15700	14800	95.1	86.9	2000	10.0-141			5.90	29
(S) a,a,a-Trifluorotoluene(FID)					*113*	*112*		*77.0-120*				

Method Blank (MB)

(MB) R3672472-1 06/25/21 18:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*65.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3672472-2 06/25/21 18:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	15.1	60.4	50.0-150	
C12-C22 Hydrocarbons	25.0	17.0	68.0	50.0-150	
(S) o-Terphenyl			*61.6*	*18.0-148*	

L1369357-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369357-06 06/25/21 20:25 • (MS) R3672472-3 06/25/21 20:40 • (MSD) R3672472-4 06/25/21 20:54

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	24.2	39.4	61.0	60.2	89.3	86.3	1	50.0-150			1.32	20
C12-C22 Hydrocarbons	24.2	18.8	39.4	38.6	85.1	82.2	1	50.0-150			2.05	20
(S) o-Terphenyl					*42.1*	*38.5*		*18.0-148*				

Method Blank (MB)

(MB) R3672733-1 06/26/21 13:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*69.5*			*22.0-132*

Laboratory Control Sample (LCS)

(LCS) R3672733-2 06/26/21 13:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.167	0.116	69.5	40.0-120	
Dalapon	0.167	0.102	61.1	15.0-120	P
2,4-DB	0.167	0.114	68.3	25.0-143	
Dicamba	0.167	0.134	80.2	43.0-120	P
Dichloroprop	0.167	0.127	76.0	32.0-129	
Dinoseb	0.167	0.0783	46.9	10.0-120	
MCPA	1.67	4.29	257	31.0-121	J4
MCPP	1.67	2.52	151	28.0-133	J4
2,4,5-T	0.167	0.128	76.6	41.0-120	
2,4,5-TP (Silvex)	0.167	0.127	76.0	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			*84.4*	*22.0-132*	

L1368708-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368708-05 06/26/21 14:45 • (MS) R3672733-3 06/26/21 15:00 • (MSD) R3672733-4 06/26/21 15:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	0.163	U	0.0890	0.0858	54.6	53.0	1	10.0-160			3.66	24
Dalapon	0.163	U	0.134	0.128	82.2	79.0	1	10.0-121	P	P	4.58	27
2,4-DB	0.163	U	0.0809	0.0756	49.6	46.7	1	10.0-160			6.77	22
Dicamba	0.163	U	0.102	0.100	62.6	61.7	1	10.0-154	P	P	1.98	21

L1368708-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368708-05 06/26/21 14:45 • (MS) R3672733-3 06/26/21 15:00 • (MSD) R3672733-4 06/26/21 15:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dichloroprop	0.163	U	0.0919	0.0896	56.4	55.3	1	10.0-158			2.53	20
Dinoseb	0.163	U	0.0612	0.0574	37.5	35.4	1	10.0-120			6.41	40
MCPA	1.63	U	4.24	3.81	260	235	1	10.0-160	J5	J5	10.7	40
MCPP	1.63	U	2.20	2.20	135	136	1	10.0-160			0.000	40
2,4,5-T	0.163	U	0.0962	0.0924	59.0	57.0	1	10.0-157			4.03	20
2,4,5-TP (Silvex)	0.163	U	0.0908	0.0875	55.7	54.0	1	10.0-156			3.70	20
(S) 2,4-Dichlorophenyl Acetic Acid					*74.8*	*72.2*		*22.0-132*				

Method Blank (MB)

(MB) R3671718-1 06/24/21 12:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Azinphos-Methyl	U		0.0318	0.100
Bolstar (Sulprofos)	U		0.0149	0.100
Chlorpyrifos	U		0.0157	0.100
Coumaphos	U		0.0243	0.100
Demeton,-O and -S	U		0.00584	0.0700
Diazinon	U		0.0225	0.100
Dichlorvos	U		0.0300	0.100
Dimethoate	U		0.0334	0.100
Disulfoton	U		0.0254	0.100
EPN	U		0.0276	0.100
Ethoprop	U		0.0118	0.100
Ethyl Parathion	U		0.0164	0.100
Fensulfothion	U		0.0353	0.100
Fenthion	U		0.0133	0.100
Malathion	U		0.0179	0.100
Merphos	U		0.0232	0.100
Methyl parathion	U		0.0203	0.100
Mevinphos	U		0.0230	0.100
Naled	U		0.0480	0.100
Phorate	U		0.0210	0.100
Ronnel	U		0.0149	0.100
Stirophos	U		0.0178	0.100
Sulfotep	U		0.00986	0.100
TEPP	U		0.157	1.00
Tokuthion (Prothothiofos)	U		0.0150	0.100
Trichloronate	U		0.0201	0.100
(S) Triphenyl Phosphate	*68.2*			*36.0-121*

Laboratory Control Sample (LCS)

(LCS) R3671718-2 06/24/21 14:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Azinphos-Methyl	0.333	0.244	73.3	58.0-125	
Bolstar (Sulprofos)	0.333	0.239	71.8	64.0-120	
Chlorpyrifos	0.333	0.252	75.7	62.0-120	
Coumaphos	0.333	0.249	74.8	60.0-120	
Demeton,-O and -S	0.167	0.121	72.5	59.0-120	
Diazinon	0.333	0.238	71.5	49.0-120	

Laboratory Control Sample (LCS)

(LCS) R3671718-2 06/24/21 14:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dichlorvos	0.333	0.124	37.2	37.0-120	
Dimethoate	0.333	0.250	75.1	46.0-127	
Disulfoton	0.333	0.250	75.1	60.0-121	
EPN	0.333	0.264	79.3	60.0-121	
Ethoprop	0.333	0.259	77.8	59.0-120	
Ethyl Parathion	0.333	0.272	81.7	62.0-120	
Fensulfothion	0.333	0.225	67.6	58.0-123	
Fenthion	0.333	0.250	75.1	61.0-121	
Malathion	0.333	0.261	78.4	59.0-120	
Merphos	0.333	0.240	72.1	59.0-120	P
Methyl parathion	0.333	0.247	74.2	63.0-120	
Mevinphos	0.333	0.215	64.6	50.0-120	
Naled	0.333	0.0597	17.9	10.0-125	
Phorate	0.333	0.264	79.3	60.0-120	
Ronnel	0.333	0.238	71.5	62.0-120	
Stirophos	0.333	0.228	68.5	62.0-120	
Sulfotep	0.333	0.285	85.6	62.0-122	
TEPP	3.33	0.000	0.000	10.0-135	J4
Tokuthion (Prothothiofos)	0.333	0.246	73.9	63.0-120	
Trichloronate	0.333	0.258	77.5	62.0-120	
(S) Triphenyl Phosphate			*70.3*	*36.0-121*	

L1367884-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367884-01 06/24/21 15:10 • (MS) R3671718-3 06/24/21 15:44 • (MSD) R3671718-4 06/24/21 16:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Azinphos-Methyl	0.325	U	0.208	0.222	64.0	68.3	1	10.0-160			6.51	22
Bolstar (Sulprofos)	0.325	U	0.174	0.187	53.5	57.5	1	10.0-151			7.20	20
Chlorpyrifos	0.325	U	0.187	0.201	57.5	61.8	1	12.0-149			7.22	20
Coumaphos	0.325	U	0.192	0.206	59.1	63.4	1	10.0-160			7.04	22
Demeton,-O and -S	0.163	U	0.0971	0.0976	59.6	59.9	1	10.0-160			0.514	23
Diazinon	0.325	U	0.173	0.174	53.2	53.5	1	11.0-157			0.576	20
Dichlorvos	0.325	U	0.173	0.188	53.2	57.8	1	10.0-160			8.31	24
Dimethoate	0.325	U	0.207	0.208	63.7	64.0	1	10.0-150			0.482	27
Disulfoton	0.325	U	0.185	0.205	56.9	63.1	1	12.0-155			10.3	20
EPN	0.325	U	0.204	0.215	62.8	66.2	1	10.0-159			5.25	20
Ethoprop	0.325	U	0.202	0.206	62.2	63.4	1	11.0-156			1.96	20
Ethyl Parathion	0.325	U	0.206	0.215	63.4	66.2	1	10.0-147			4.28	20

L1367884-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367884-01 06/24/21 15:10 • (MS) R3671718-3 06/24/21 15:44 • (MSD) R3671718-4 06/24/21 16:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fensulfothion	0.325	U	0.191	0.199	58.8	61.2	1	10.0-157			4.10	27
Fenthion	0.325	U	0.184	0.191	56.6	58.8	1	13.0-155			3.73	20
Malathion	0.325	U	0.189	0.197	58.2	60.6	1	13.0-137			4.15	21
Merphos	0.325	U	0.114	0.115	35.1	35.4	1	10.0-147			0.873	26
Methyl parathion	0.325	U	0.194	0.205	59.7	63.1	1	10.0-150			5.51	21
Mevinphos	0.325	U	0.191	0.192	58.8	59.1	1	10.0-158			0.522	24
Naled	0.325	U	0.158	0.135	48.6	41.5	1	10.0-137			15.7	40
Phorate	0.325	U	0.189	0.204	58.2	62.8	1	13.0-154			7.63	20
Ronnel	0.325	U	0.176	0.191	54.2	58.8	1	14.0-149			8.17	20
Stirophos	0.325	U	0.178	0.188	54.8	57.8	1	10.0-150			5.46	20
Sulfotep	0.325	U	0.205	0.214	63.1	65.8	1	10.0-160			4.30	20
TEPP	3.25	U	1.15	1.09	35.4	33.5	1	10.0-142			5.36	28
Tokuthion (Prothothiofos)	0.325	U	0.181	0.196	55.7	60.3	1	12.0-153			7.96	20
Trichloronate	0.325	U	0.189	0.202	58.2	62.2	1	12.0-152			6.65	20
(S) Triphenyl Phosphate					*55.7*	*56.3*		*36.0-121*				

Method Blank (MB)

(MB) R3673905-1 06/30/21 09:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	*106*			*10.0-135*
(S) Tetrachloro-m-xylene	*94.7*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3673905-2 06/30/21 09:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0492	73.9	34.0-136	
Alpha BHC	0.0666	0.0471	70.7	34.0-139	
Beta BHC	0.0666	0.0484	72.7	34.0-133	
Delta BHC	0.0666	0.0435	65.3	34.0-135	
Gamma BHC	0.0666	0.0482	72.4	34.0-136	
4,4-DDD	0.0666	0.0440	66.1	33.0-141	
4,4-DDE	0.0666	0.0450	67.6	34.0-134	
4,4-DDT	0.0666	0.0435	65.3	30.0-143	
Dieldrin	0.0666	0.0484	72.7	35.0-137	
Endosulfan I	0.0666	0.0465	69.8	34.0-134	

Laboratory Control Sample (LCS)

(LCS) R3673905-2 06/30/21 09:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0514	77.2	35.0-132	
Endosulfan sulfate	0.0666	0.0485	72.8	35.0-132	
Endrin	0.0666	0.0479	71.9	34.0-137	
Endrin aldehyde	0.0666	0.0872	131	23.0-121	J4
Endrin ketone	0.0666	0.0479	71.9	35.0-144	
Heptachlor	0.0666	0.0474	71.2	36.0-141	
Heptachlor epoxide	0.0666	0.0463	69.5	36.0-134	
Hexachlorobenzene	0.0666	0.0429	64.4	33.0-129	
Methoxychlor	0.0666	0.0511	76.7	28.0-150	
(S) Decachlorobiphenyl			*66.7*	*10.0-135*	
(S) Tetrachloro-m-xylene			*62.3*	*10.0-139*	

L1369455-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369455-03 06/30/21 10:43 • (MS) R3673905-3 06/30/21 10:56 • (MSD) R3673905-4 06/30/21 11:09

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	U	0.0485	0.0559	72.8	83.9	1	20.0-135			14.2	37
Alpha BHC	0.0666	U	0.0485	0.0560	72.8	84.1	1	27.0-140			14.4	35
Beta BHC	0.0666	U	0.0485	0.0563	72.8	84.5	1	23.0-141			14.9	37
Delta BHC	0.0666	U	0.0396	0.0468	59.5	70.3	1	21.0-138			16.7	35
Gamma BHC	0.0666	U	0.0483	0.0562	72.5	84.4	1	27.0-137			15.1	36
4,4-DDD	0.0666	U	0.0435	0.0538	65.3	80.8	1	15.0-152			21.2	39
4,4-DDE	0.0666	0.0176	0.0599	0.0801	63.5	93.8	1	10.0-152			28.9	40
4,4-DDT	0.0666	U	0.0382	0.0520	57.4	78.1	1	10.0-151			30.6	40
Dieldrin	0.0666	U	0.0444	0.0530	66.7	79.6	1	17.0-145			17.7	37
Endosulfan I	0.0666	U	0.0420	0.0505	63.1	75.8	1	20.0-137			18.4	36
Endosulfan II	0.0666	U	0.0447	0.0544	67.1	81.7	1	15.0-141			19.6	37
Endosulfan sulfate	0.0666	U	0.0383	0.0497	57.5	74.6	1	15.0-143			25.9	38
Endrin	0.0666	U	0.0429	0.0526	64.4	79.0	1	19.0-143			20.3	37
Endrin aldehyde	0.0666	U	0.0688	0.0910	103	137	1	10.0-139			27.8	40
Endrin ketone	0.0666	U	0.0416	0.0505	62.5	75.8	1	17.0-149			19.3	38
Heptachlor	0.0666	U	0.0448	0.0521	67.3	78.2	1	22.0-138			15.1	37
Heptachlor epoxide	0.0666	U	0.0429	0.0504	64.4	75.7	1	22.0-138			16.1	36
Hexachlorobenzene	0.0666	U	0.0461	0.0521	69.2	78.2	1	25.0-126			12.2	35
Methoxychlor	0.0666	U	0.0370	0.0475	55.6	71.3	1	10.0-159			24.9	40
(S) Decachlorobiphenyl					*63.8*	*71.2*		*10.0-135*				
(S) Tetrachloro-m-xylene					*78.5*	*79.7*		*10.0-139*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Millennium Consulting Associates
4683 Chabot Drive, Ste 380
Pleasanton, CA 94588

Billing Information: jfeiner@mecaenviro.com

Pres Chk

Report to: J. Malson/P. Saneipoor

Email To: Jmalson@mecaenviro.com jfeiner@mecaenviro.com

Project Description: UC ANR Intermountain REC

City/State Collected: Tulelake, CA

Please Circle: PT MT CT ET

Phone: 925-808-6700

Client Project # 21015.2001

Lab Project #

Collected by (print): K. Efe

Site/Facility ID #

P.O. # 17760

Collected by (signature): K Efe

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day Standard TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1368753

Table H122

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Organochlorine Pesticides(EPA 8081)	Organophosphours Pesticides(EPA 8141)	Herbicides (EPA 8151)	TPH G/D/MO (EPA 8015/5030/3015)	Remarks	Sample # (lab only)
S-01	Grab	SS	0-3"	6/16/21	1100	X	X	X	X		-01
S-02 } S-Comp-02and04	Grab	SS	0-3"	6/16/21	1110	X	X	X	X		-02
S-04 }	Grab	SS	0-3"	6/16/21	1130	X	X	X	X		-04
S-03	Grab	SS	0-3"	6/16/21	1120	X	X	X	X		-03
S-05	Grab	SS	0-3"	6/16/21	1140	X	X	X	X		-04

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Please composite S-02 and S-04 and change ID to S-Comp-02and04

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 9348 1610 7620

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y ✓N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
K Efe	6/18/21	10:30 am		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.7 °C Bottles Received: 5.5±0.5 5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/19/21 Time: 9:00

If preservation required by Login: Date/Time

06-042

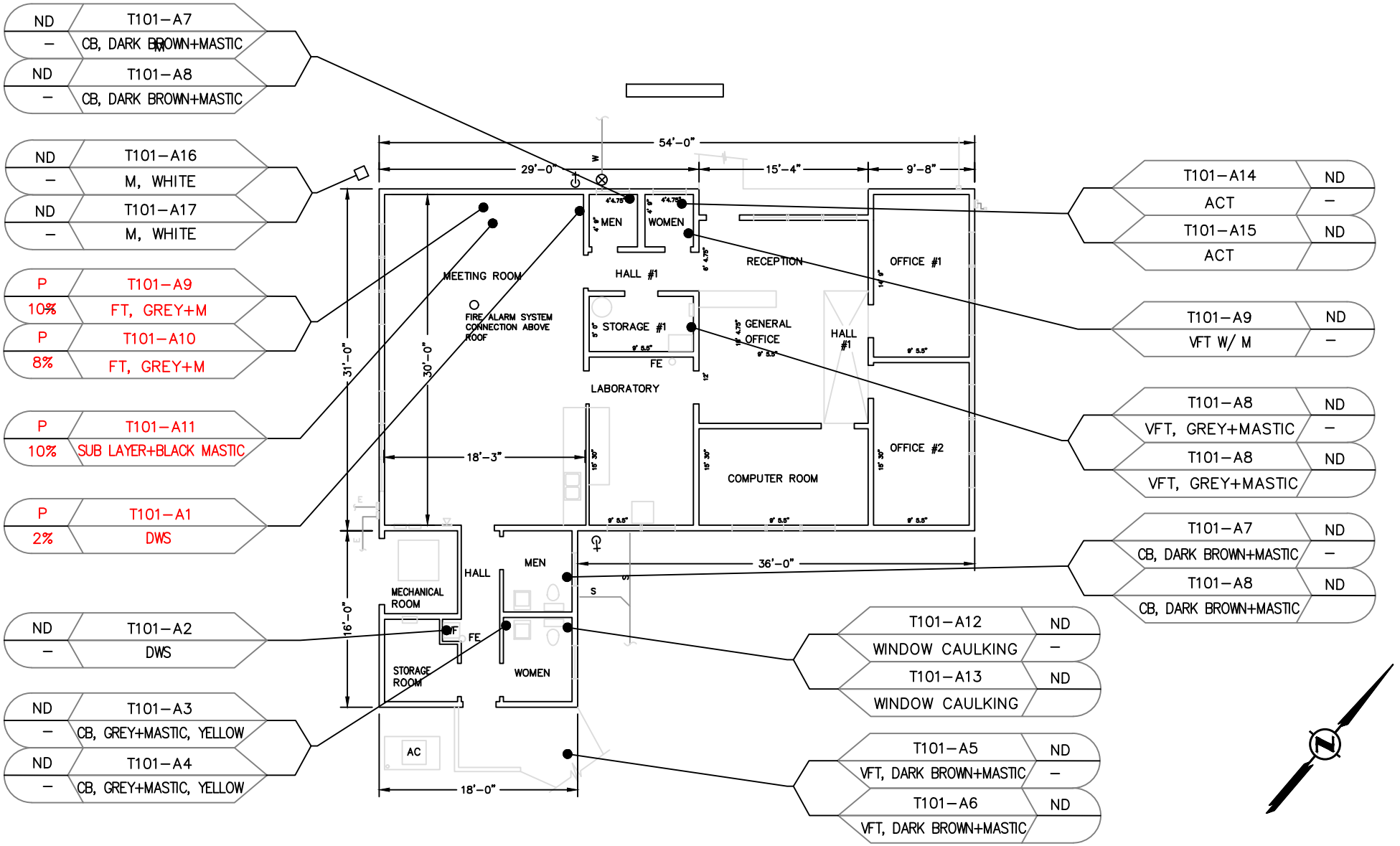
Condition: NCF / OK

MILLENNIUM
CONSULTING ASSOCIATES
A MECA Consulting, Inc. Company

APPENDIX F

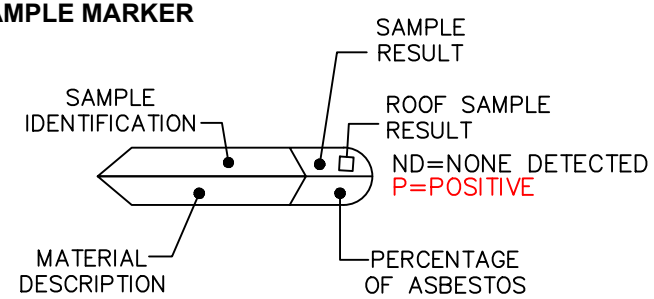
Site Sampling Maps

(Asbestos, Lead & PCBs)



LEGEND

SAMPLE MARKER



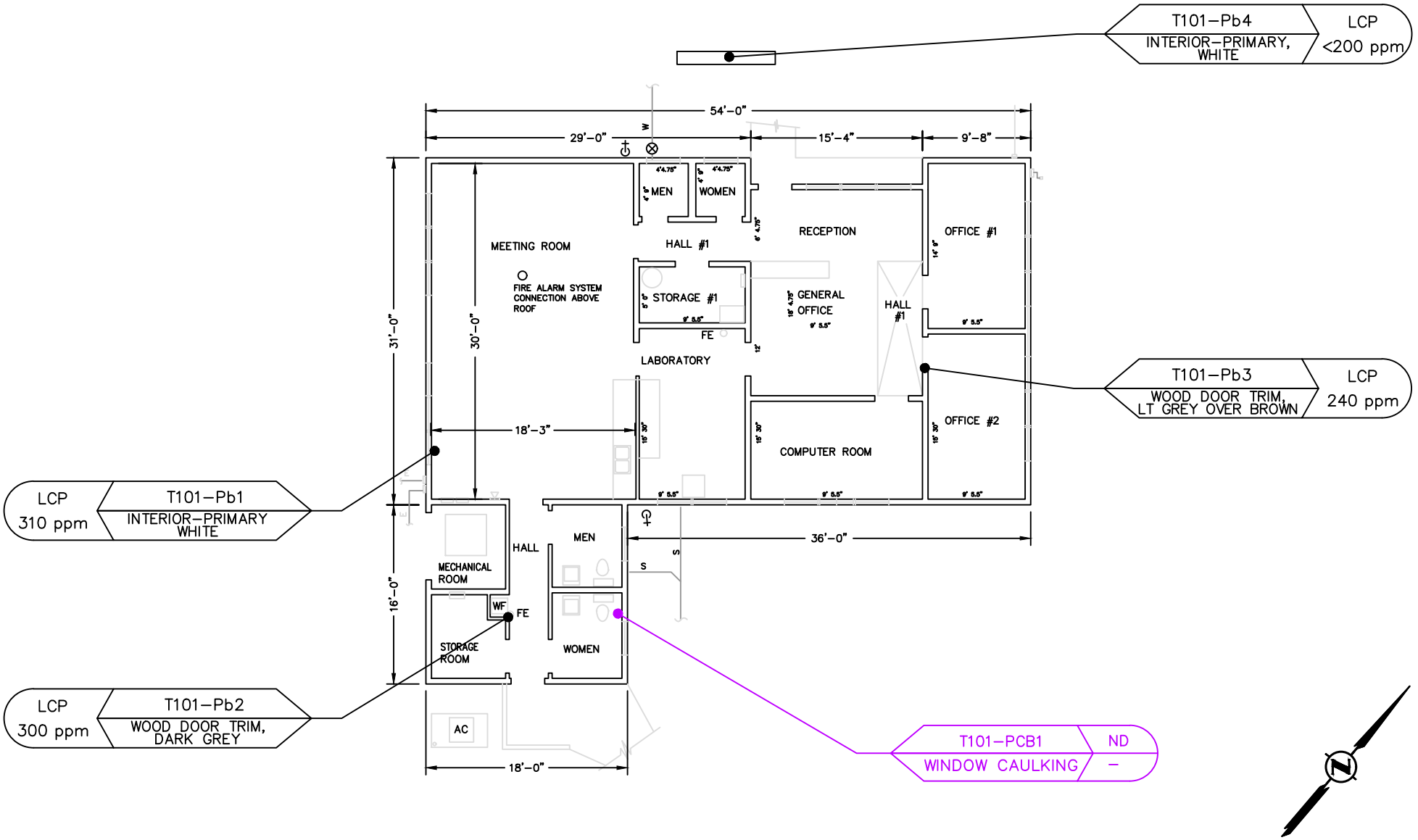
MATERIAL

ACT=ACOUSTICAL CEILING TILE
CB=COVEBASE
DWS=DRYWALL SYSTEM
FT=FLOOR TILE
M=MASTIC
VFT=VINYL FLOOR TILE

UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN BUILDING #101 - OFFICE
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 1



LEGEND

PCB SAMPLE IDENTIFICATION — SAMPLE RESULT

MATERIAL DESCRIPTION

PAINT CHIP SAMPLE IDENTIFICATION — SAMPLE RESULT

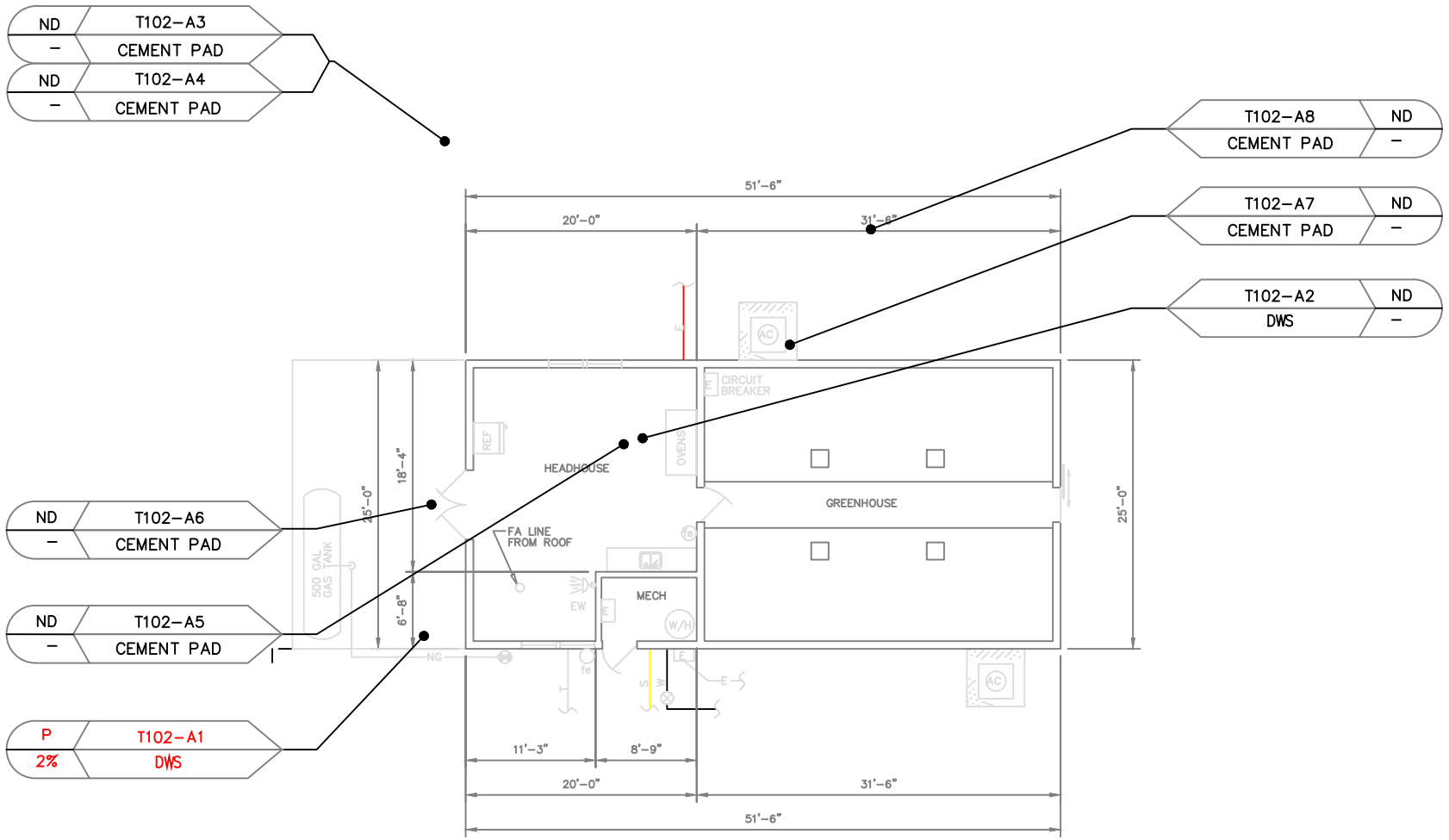
MATERIAL DESCRIPTION

LCP=LEAD–CONTAINING PAINT

UC-ANR

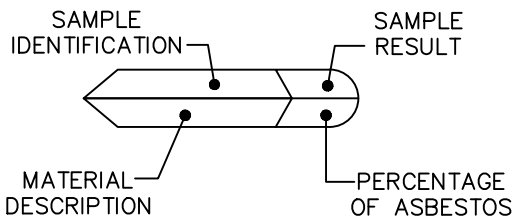
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** SAMPLE LOCATION PLAN BUILDING #101 - OFFICE
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 2



LEGEND

SAMPLE MARKER



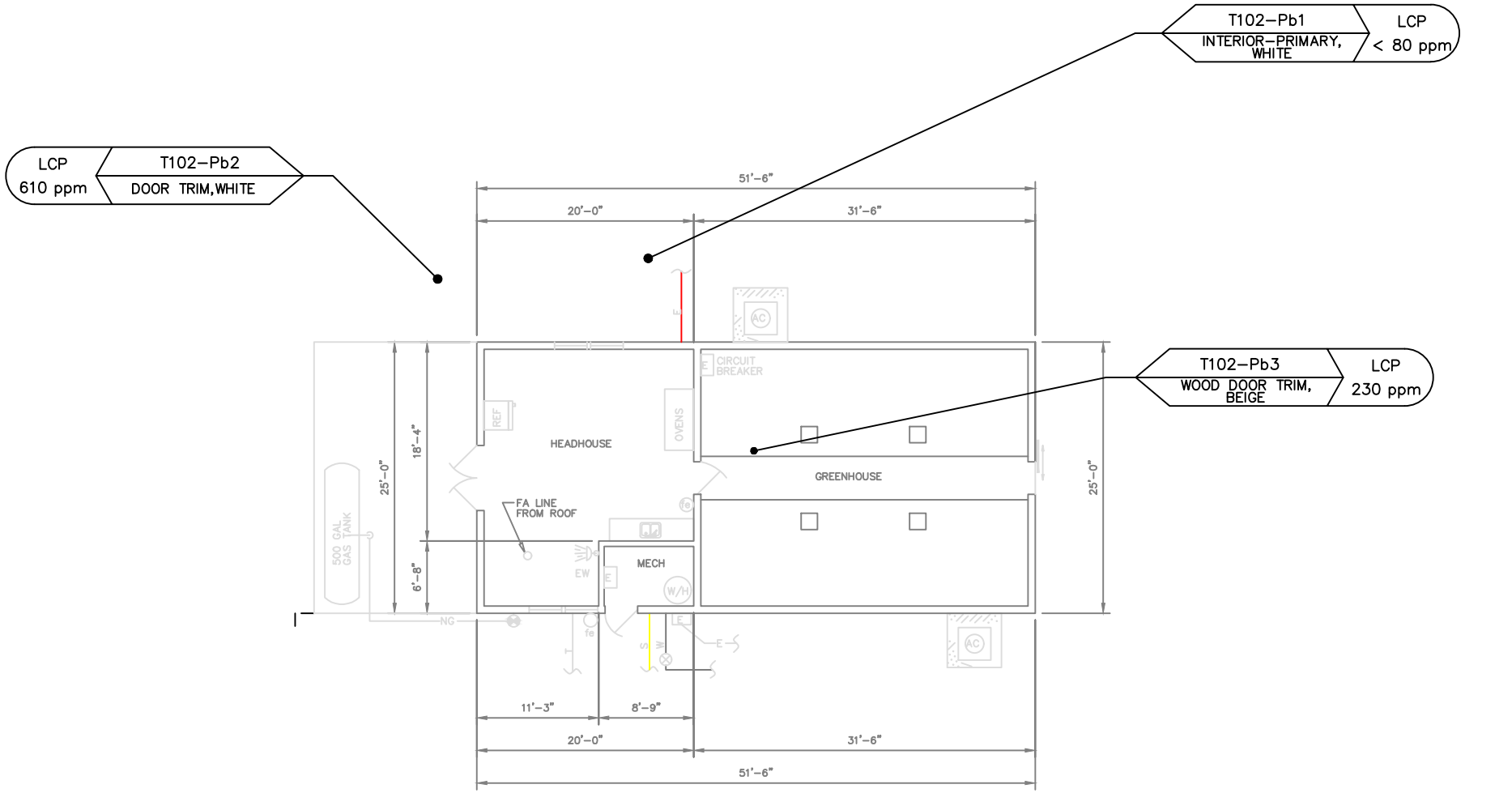
MATERIAL
DWS=DRYWALL SYSTEM

RESULT
ND=NONE DETECTED
P=POSITIVE

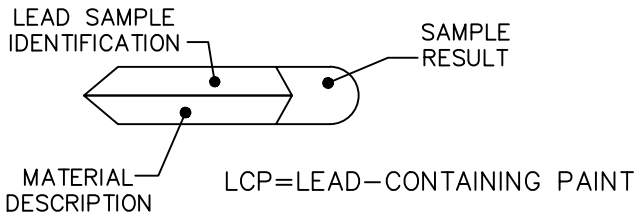
UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN BUILDING #102 GLASSHOUSE & LAB
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 3



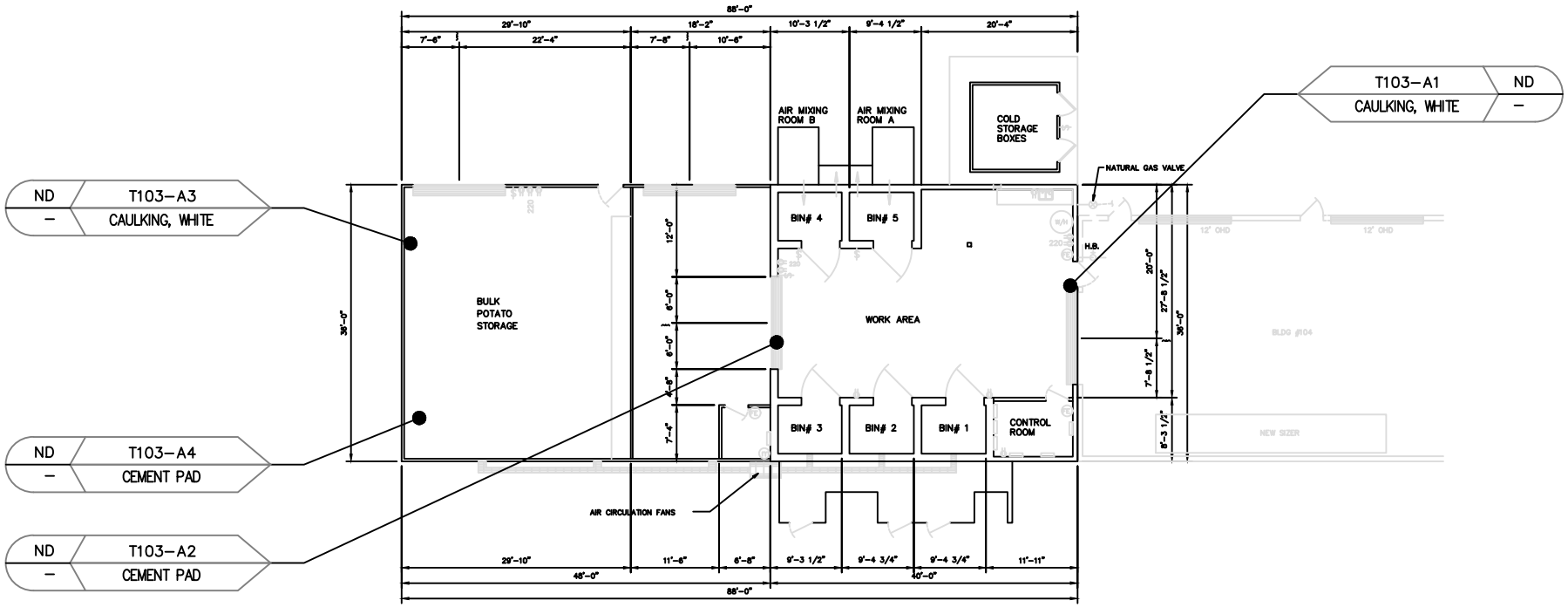
LEGEND



UC-ANR

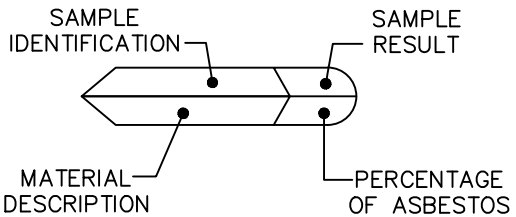
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** SAMPLE LOCATION PLAN
CHECKED: DS	BUILDING #102 GLASSHOUSE & LAB
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 4



LEGEND

SAMPLE MARKER

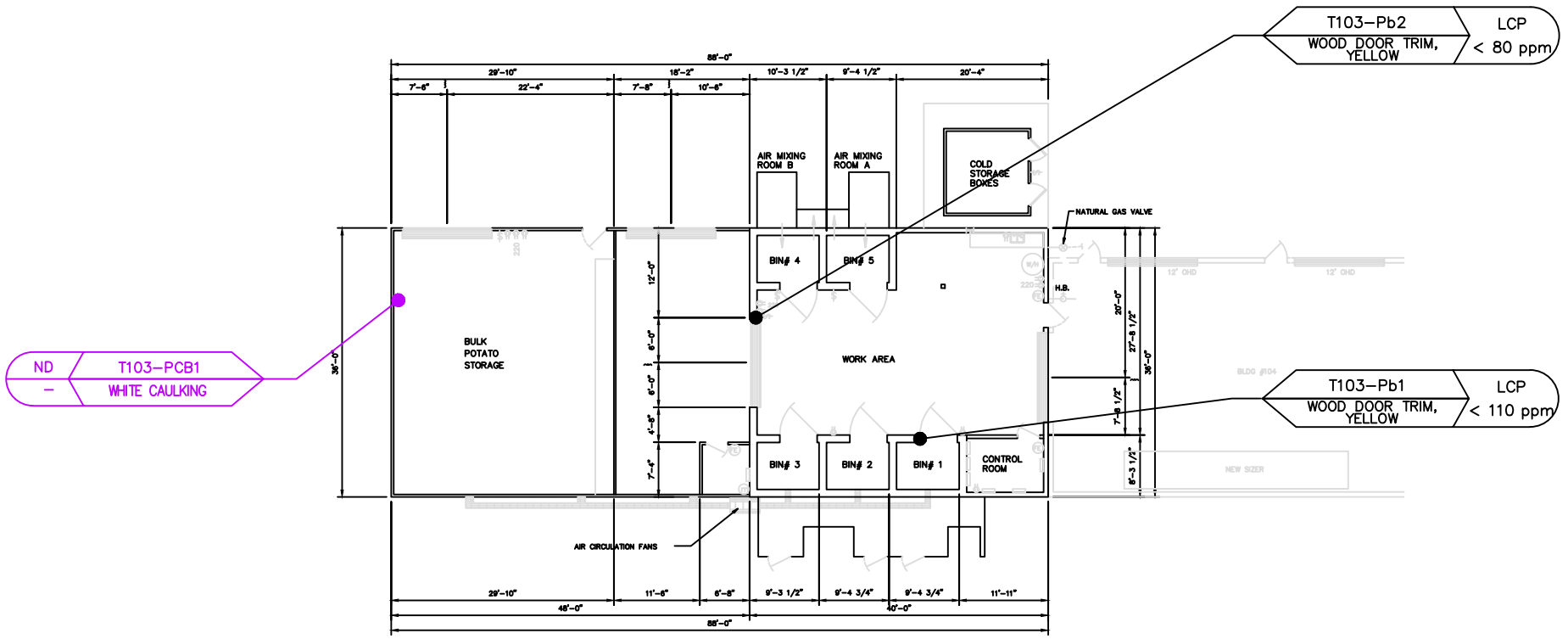


RESULT
ND= NONE DETECTED

UC-ANR

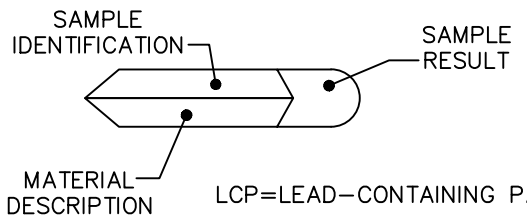
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

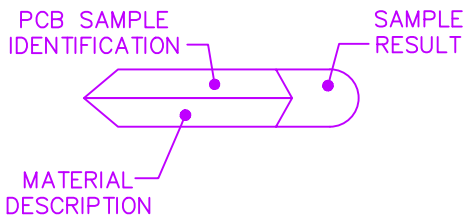
SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN **BUILDING #103 POTATO RESEARCH FACILITY**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 5



LEGEND

SAMPLE MARKER

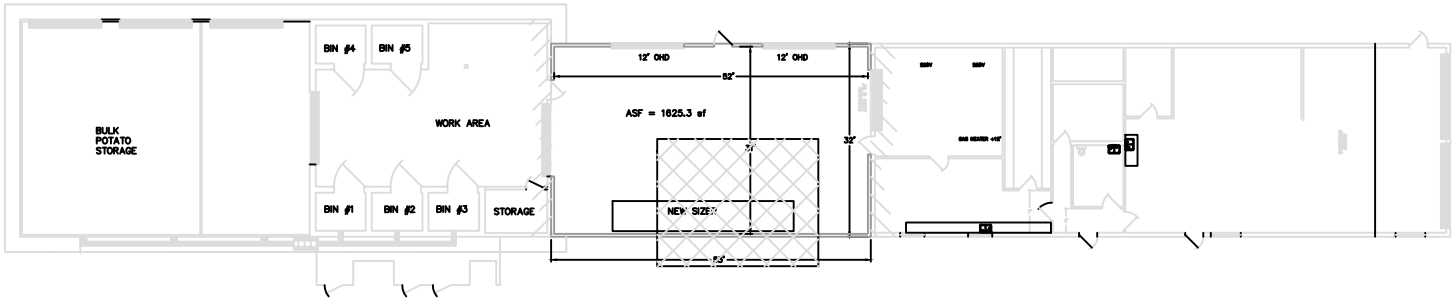




UC-ANR

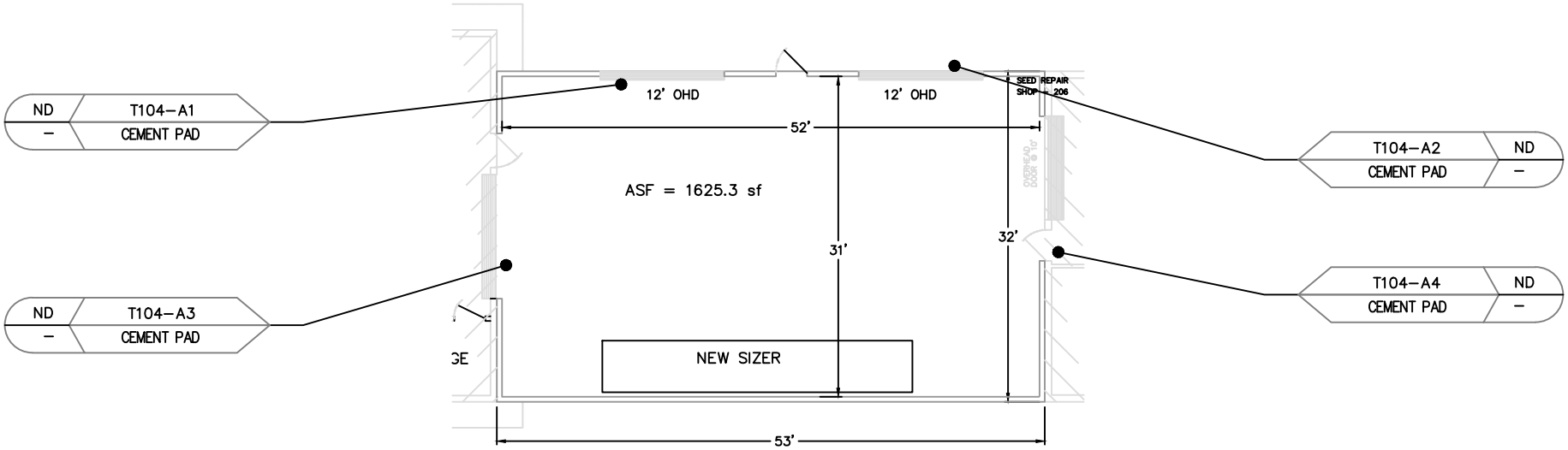
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD & PCB** SAMPLE LOCATION PLAN **BUILDING #103 POTATO RESEARCH FACILITY**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 6



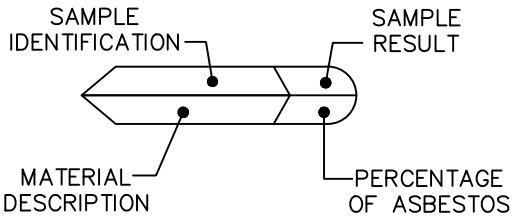
POTATO RESEARCH FACILITIES | POTATO GRADING FACILITY | SEED REPAIR SHOP

FLOOR PLAN
OGSF = 1696 S.F.



LEGEND

SAMPLE MARKER

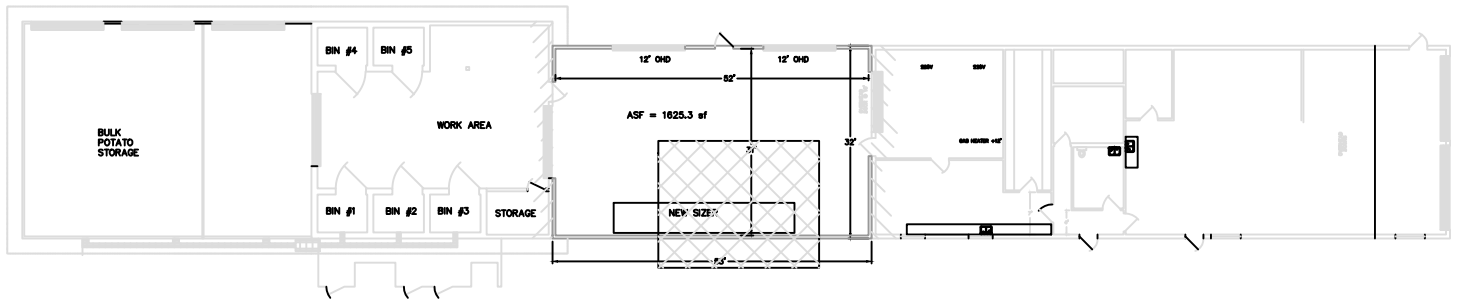


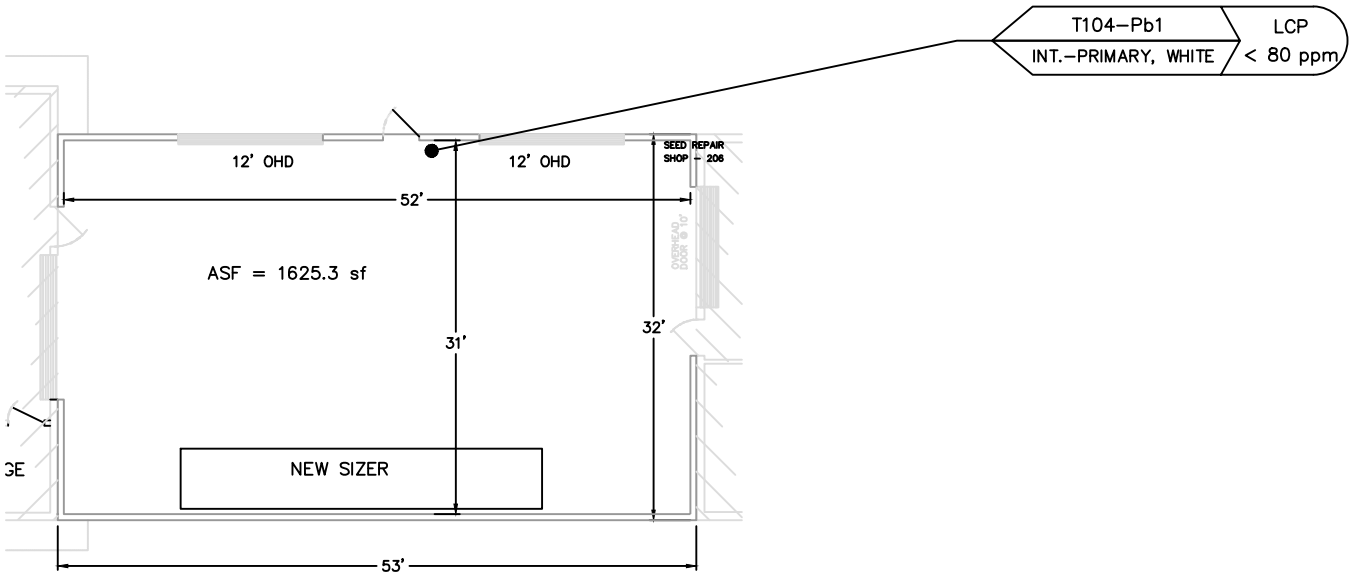
ND=NONE DETECTED

UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

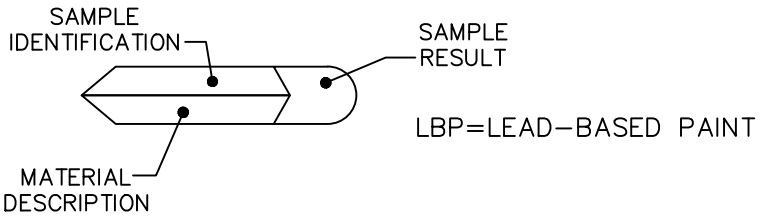
SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN **BUILDING #104 GRADING LINE FACILITY**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 7





LEGEND

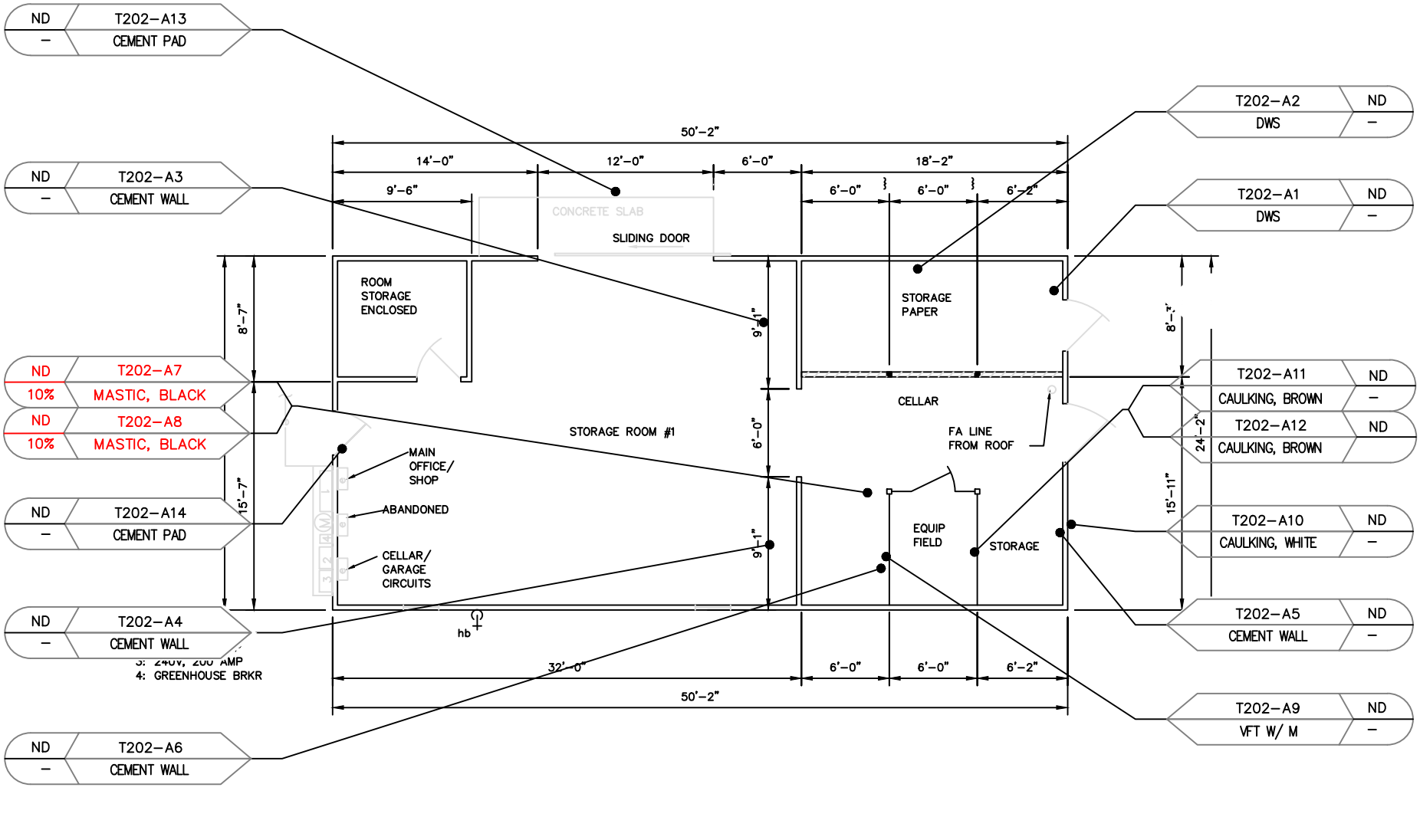
SAMPLE MARKER



UC-ANR

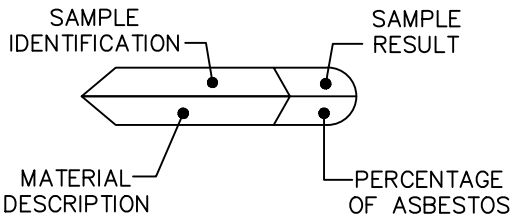
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** SAMPLE LOCATION PLAN
CHECKED: DS	**BUILDING #104 GRADING LINE FACILITY**
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 8



LEGEND

SAMPLE MARKER



MATERIAL

DWS=DRYWALL SYSTEM

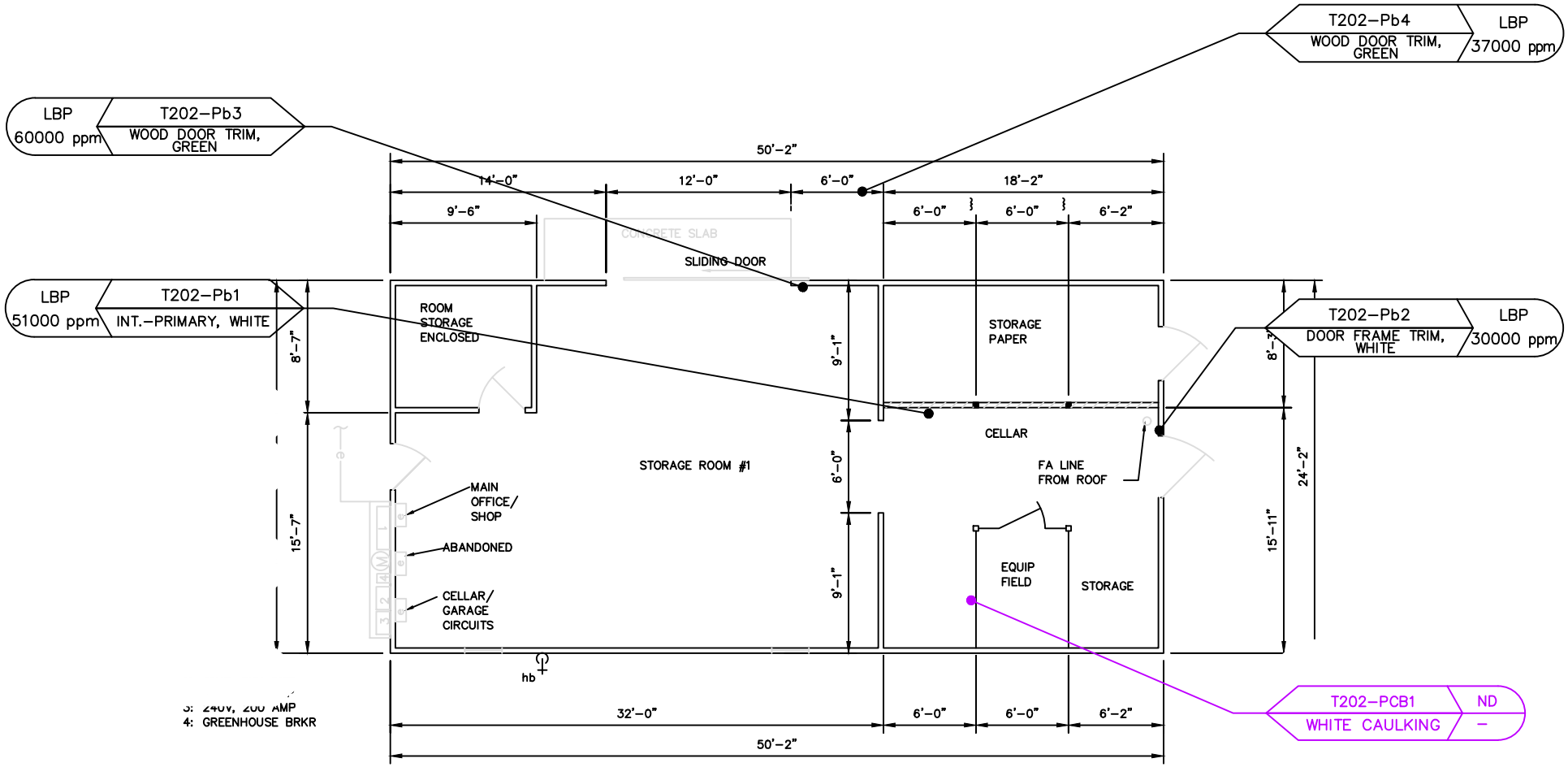
RESULT

ND=NONE DETECTED
P=POSITIVE

UC-ANR

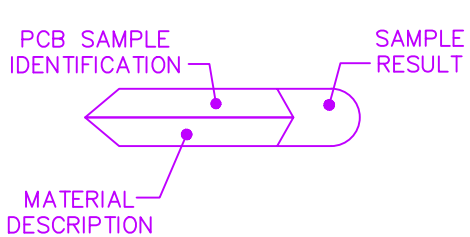
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

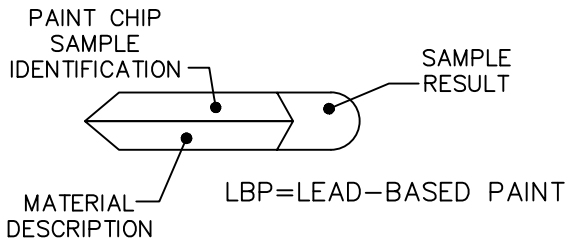
SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN **BUILDING #R202 STORAGE-DRYERS**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 9



LEGEND

SAMPLE MARKER



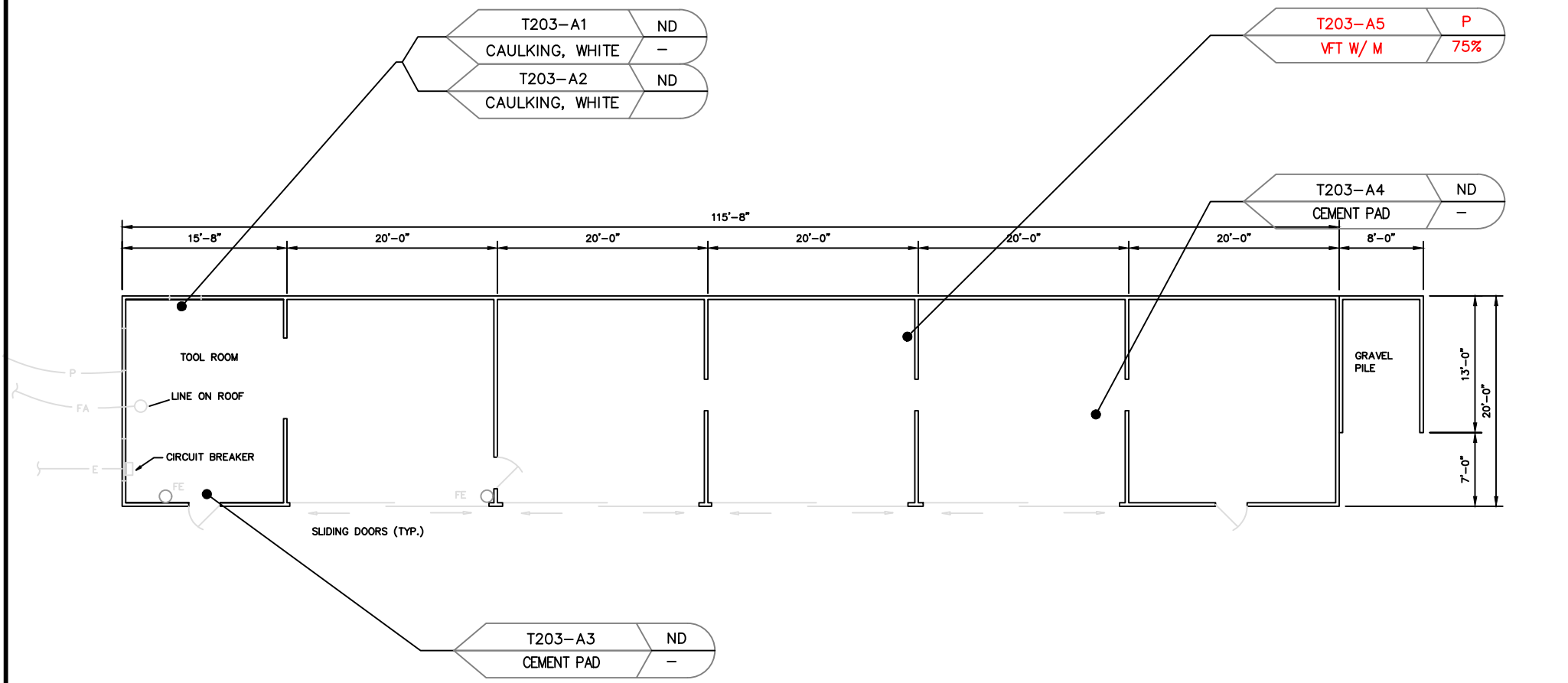


LBP=LEAD–BASED PAINT

UC-ANR

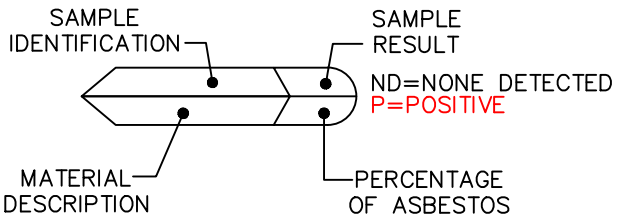
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD & PCB** SAMPLE LOCATION PLAN **BUILDING #R202 STORAGE-DRYERS**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 10



LEGEND

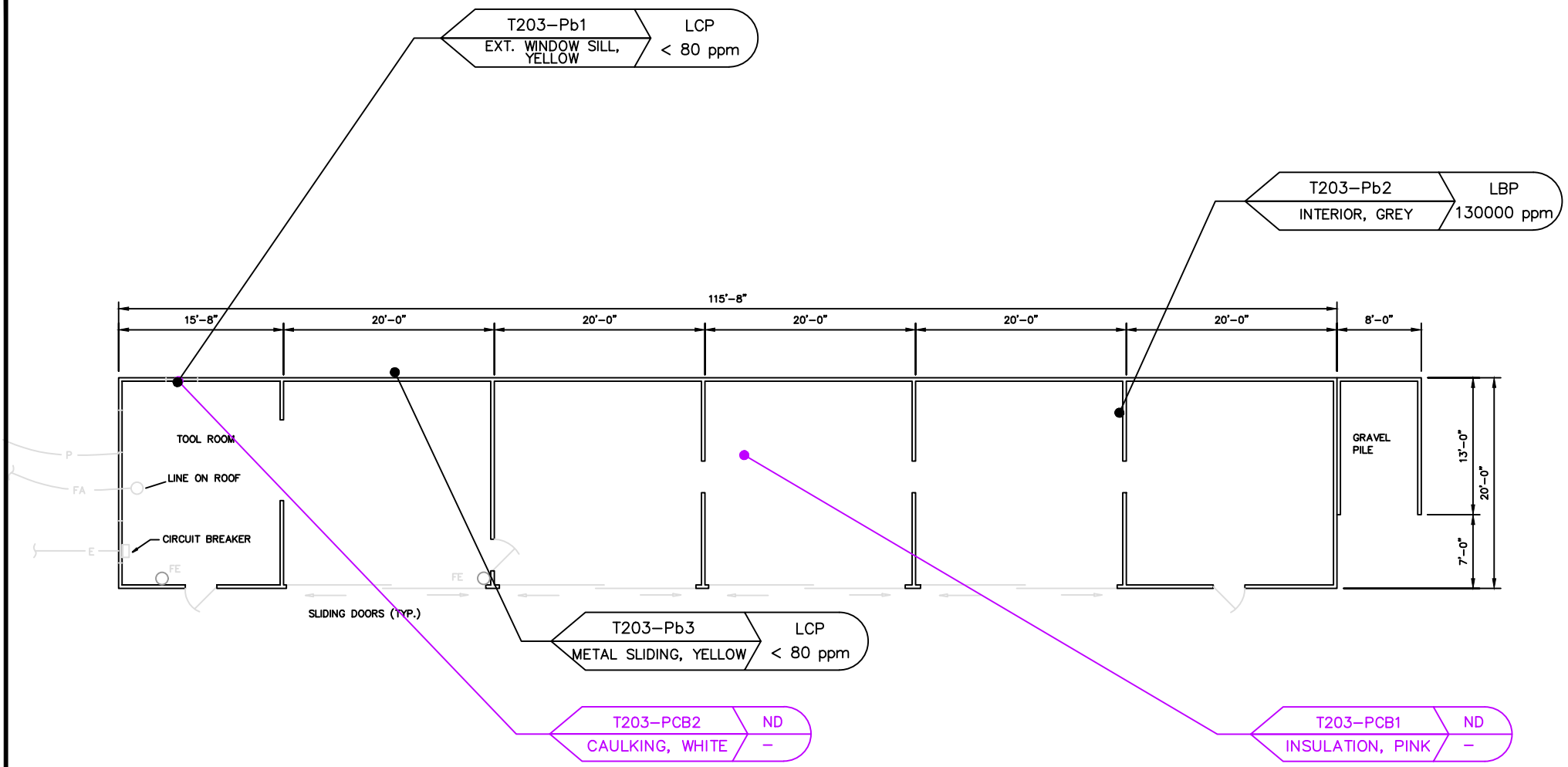
SAMPLE MARKER



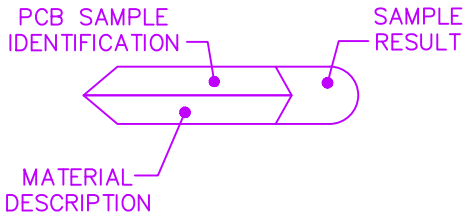
UC-ANR

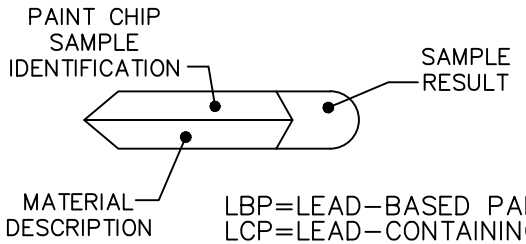
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN BUILDING #203 MACHINERY STORAGE
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 11



LEGEND



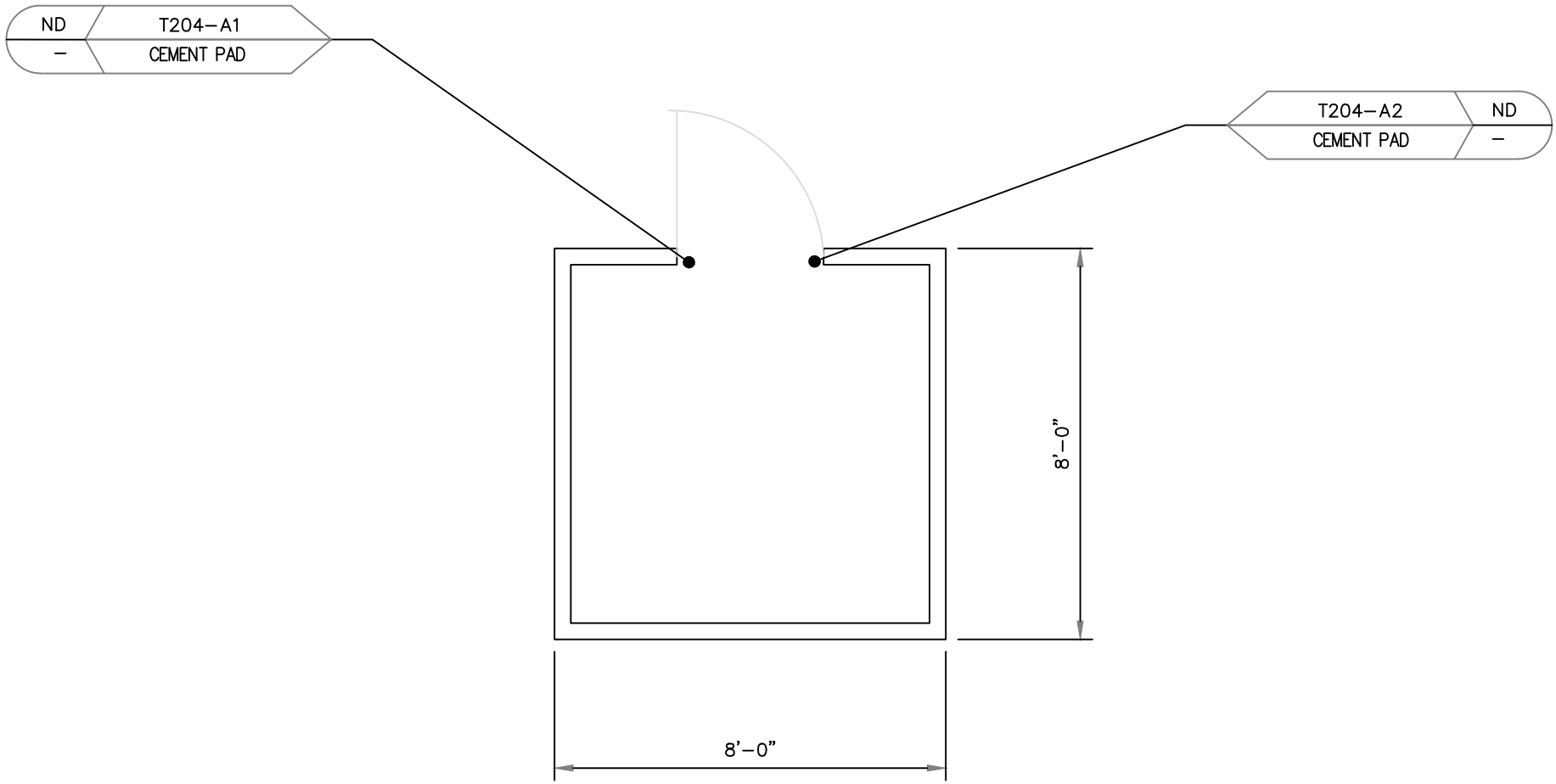


LBP=LEAD–BASED PAINT
LCP=LEAD–CONTAINING PAINT

UC-ANR

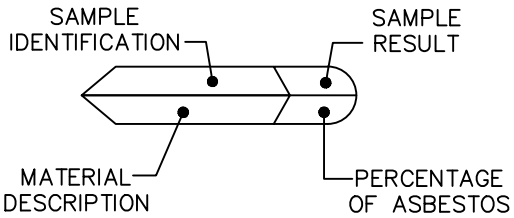
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD & PCB** SAMPLE LOCATION PLAN BUILDING #203 MACHINERY STORAGE
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 12



LEGEND

SAMPLE MARKER

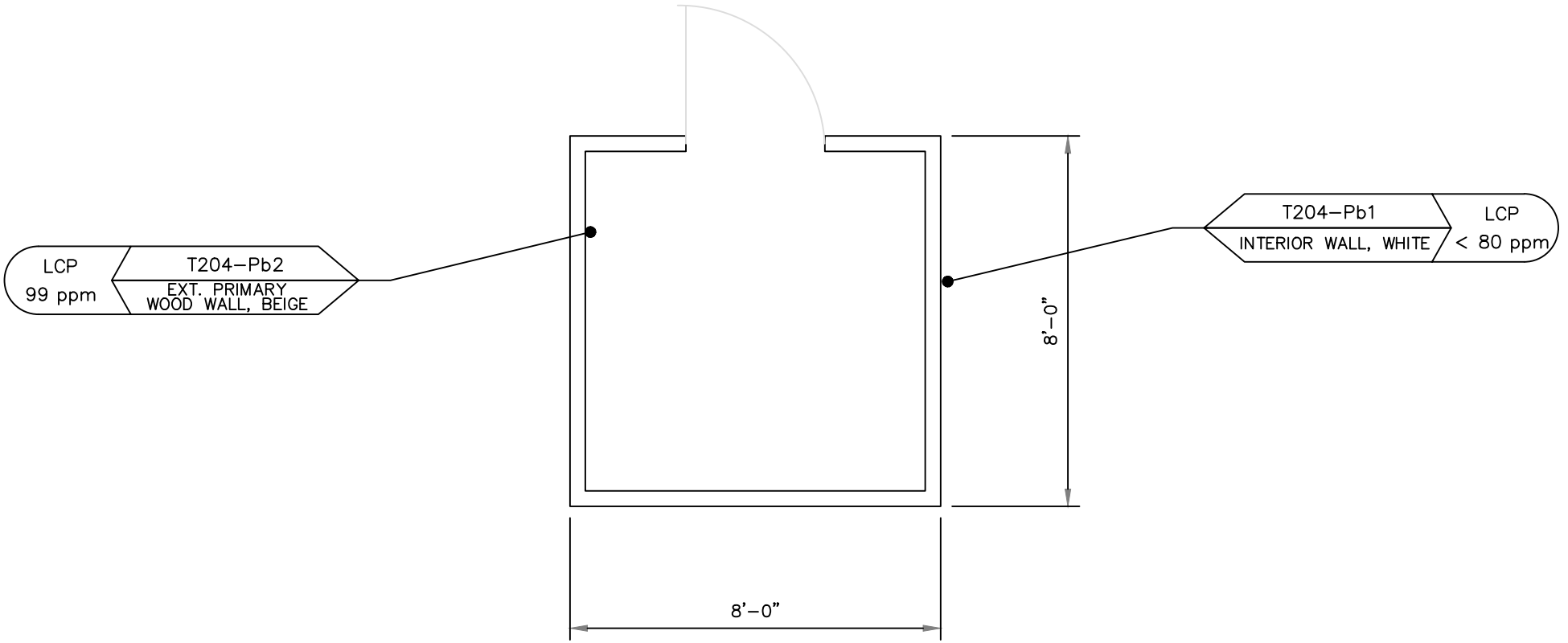


RESULT
DETECTED
P=POSITIVE

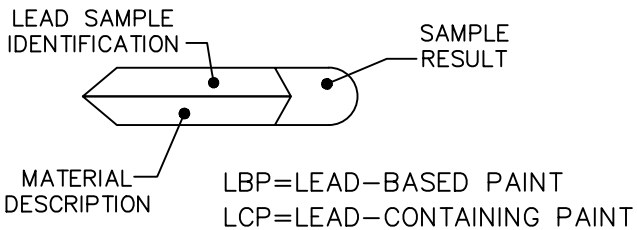
UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN BUILDING #204 PUMP HOUSE
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 13



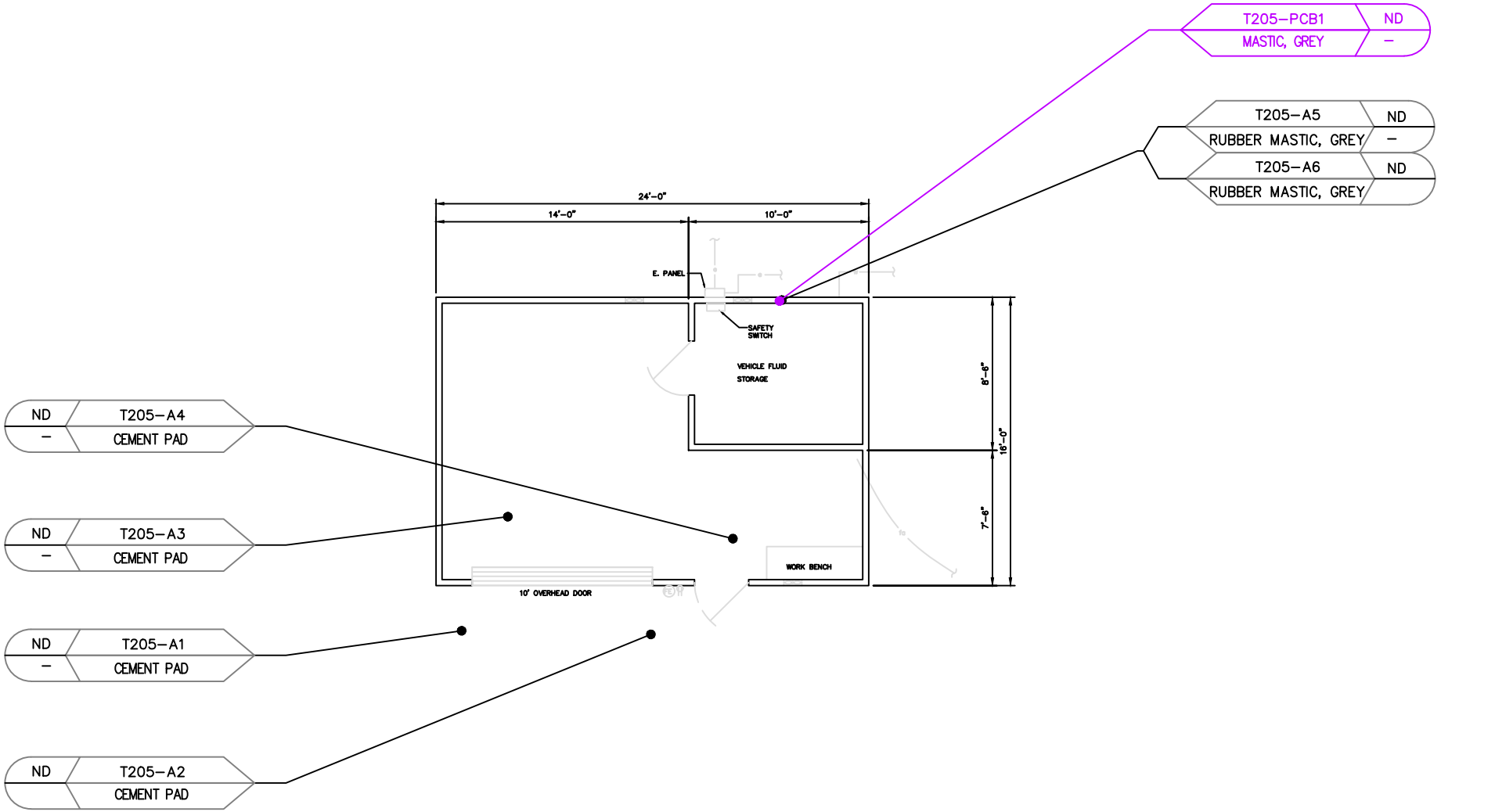
LEGEND



UC-ANR

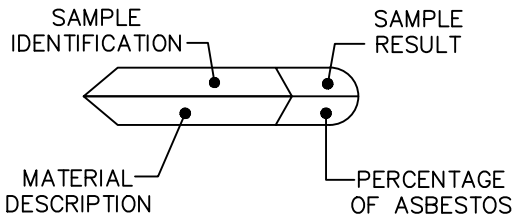
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** & PCB SAMPLE LOCATION PLAN BUILDING #204 PUMP HOUSE
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 14

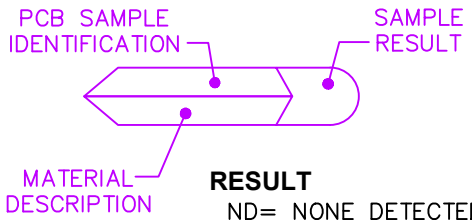


LEGEND

ASBESTOS SAMPLE MARKER



PCB SAMPLE MARKER

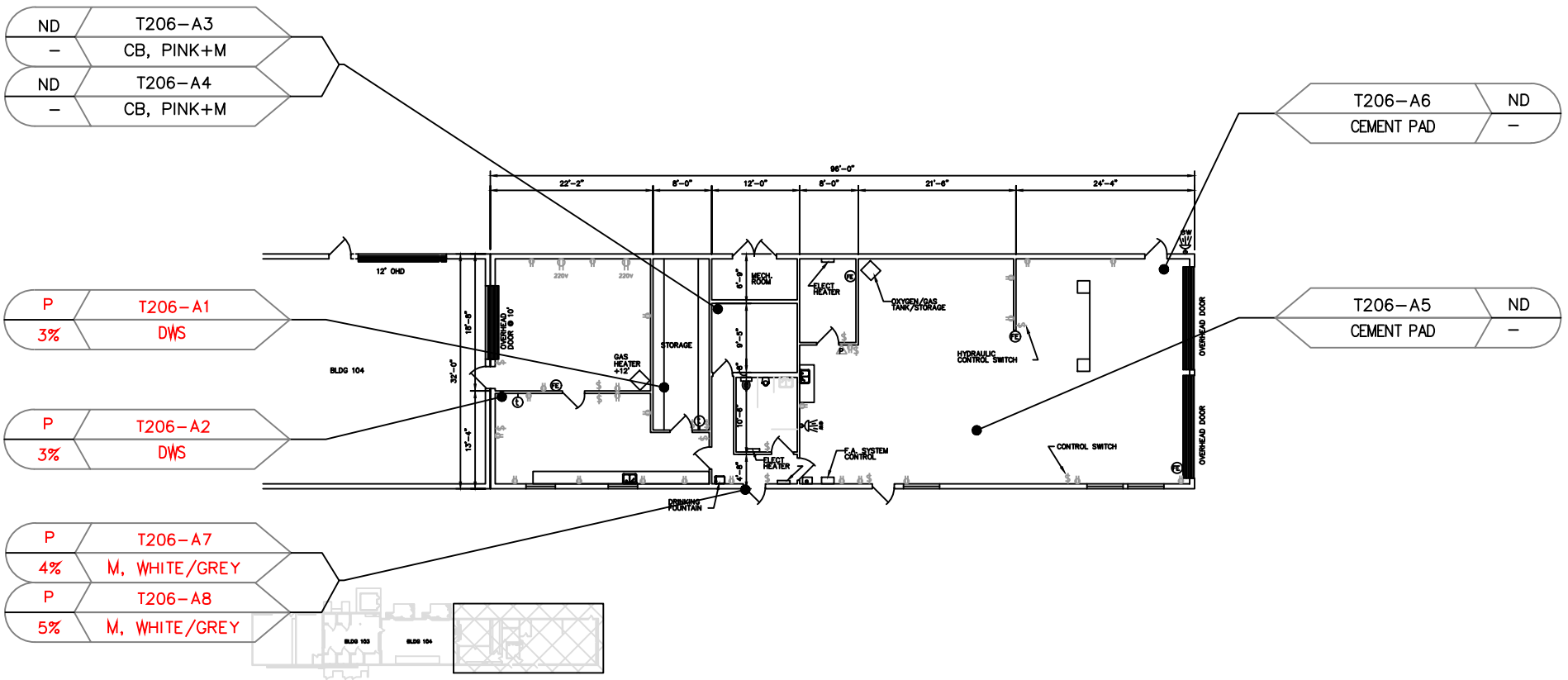


RESULT
ND= NONE DETECTED

UC-ANR

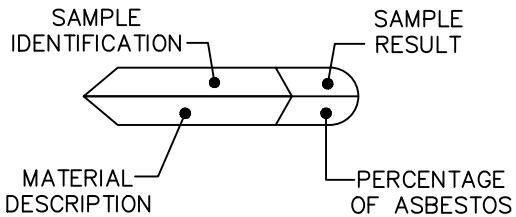
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS & PCB** SAMPLE LOCATION PLAN **BUILDING #205 PESTICIDE STORAGE**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 15



LEGEND

SAMPLE MARKER



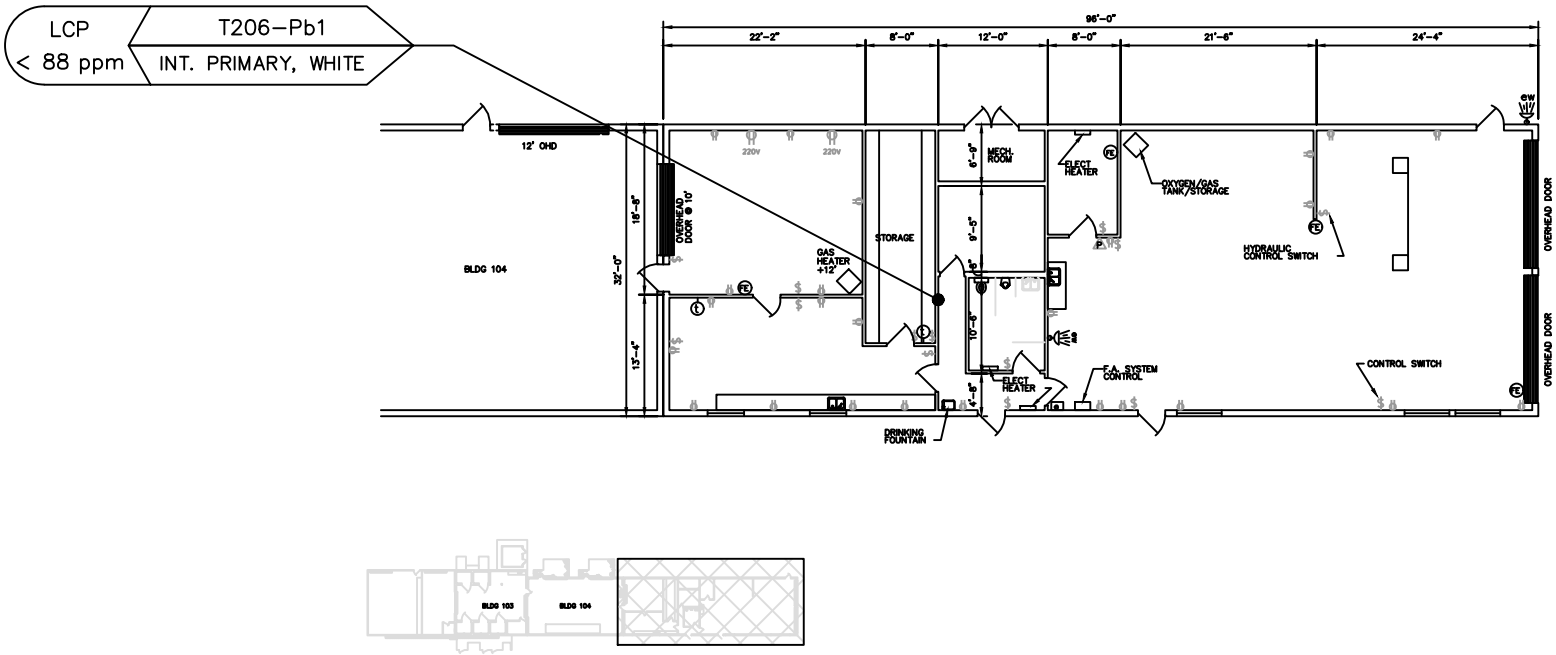
ND=NONE DETECTED
P=POSITIVE

DWS=DRYWALL SYSTEM
M=MASTIC

UC-ANR

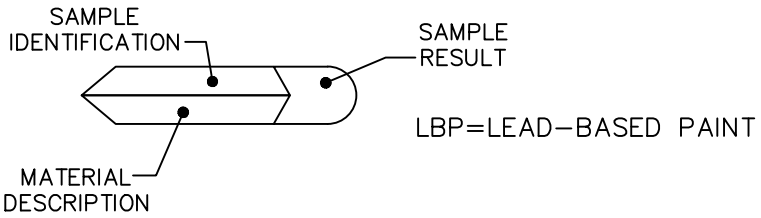
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN
CHECKED: DS	**BUILDING #206 SEED STORAGE REPAIR SHOP**
APPROVED: SN	JOB NO. 21015.2001 — DWG. NO. FIGURE 16



LEGEND

SAMPLE MARKER

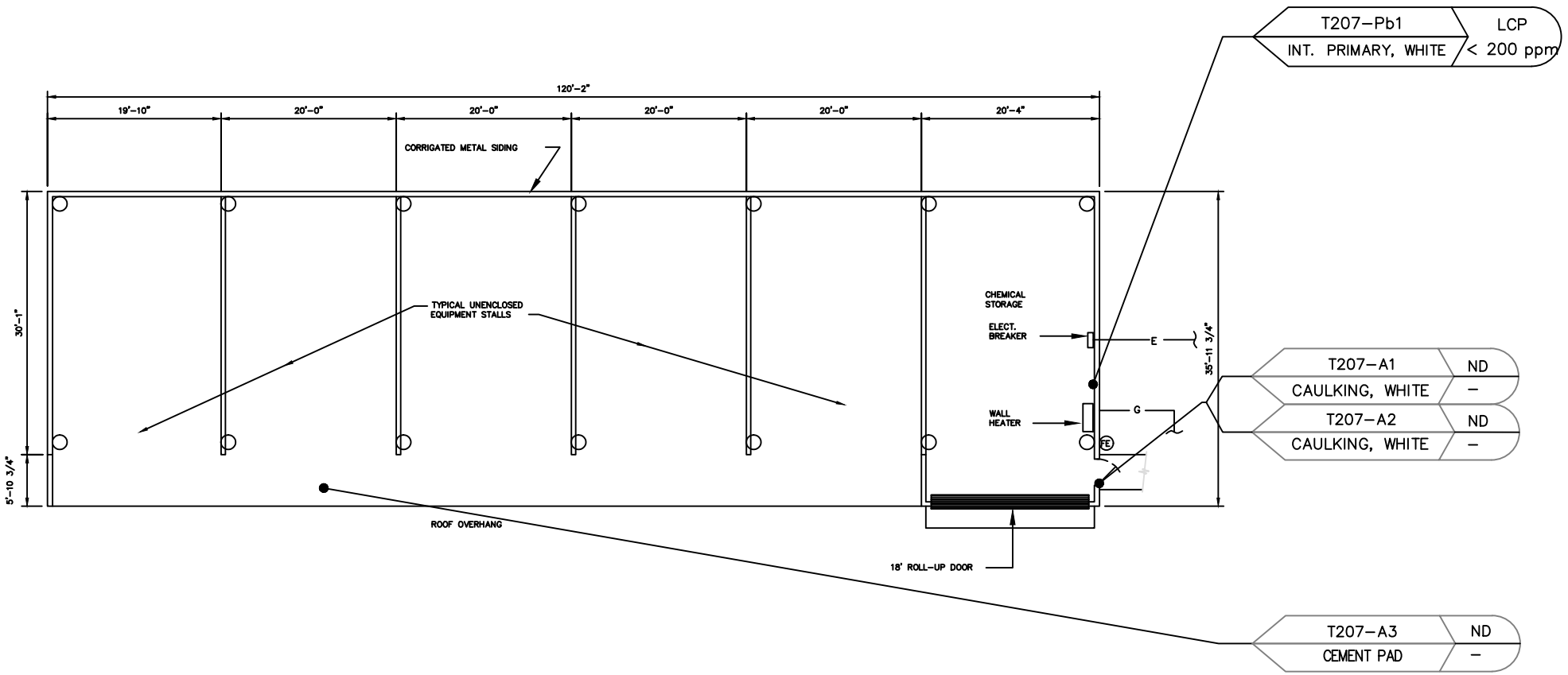


LBP=LEAD–BASED PAINT

UC-ANR

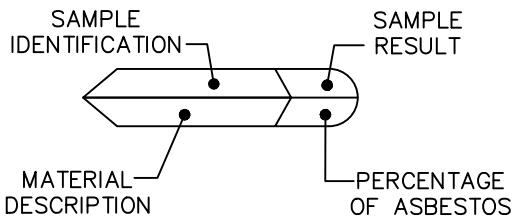
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** SAMPLE LOCATION PLAN
CHECKED: DS	**BUILDING #206 SEED STORAGE REPAIR SHOP**
APPROVED: SN	JOB NO. 21015.2001 — DWG. NO. FIGURE 17

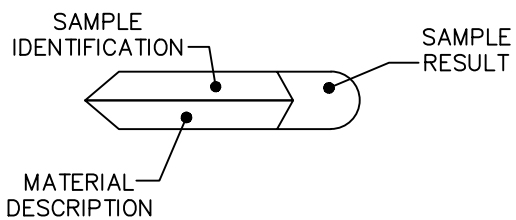


LEGEND

ASBESTOS SAMPLE MARKER



LEAD SAMPLE MARKER



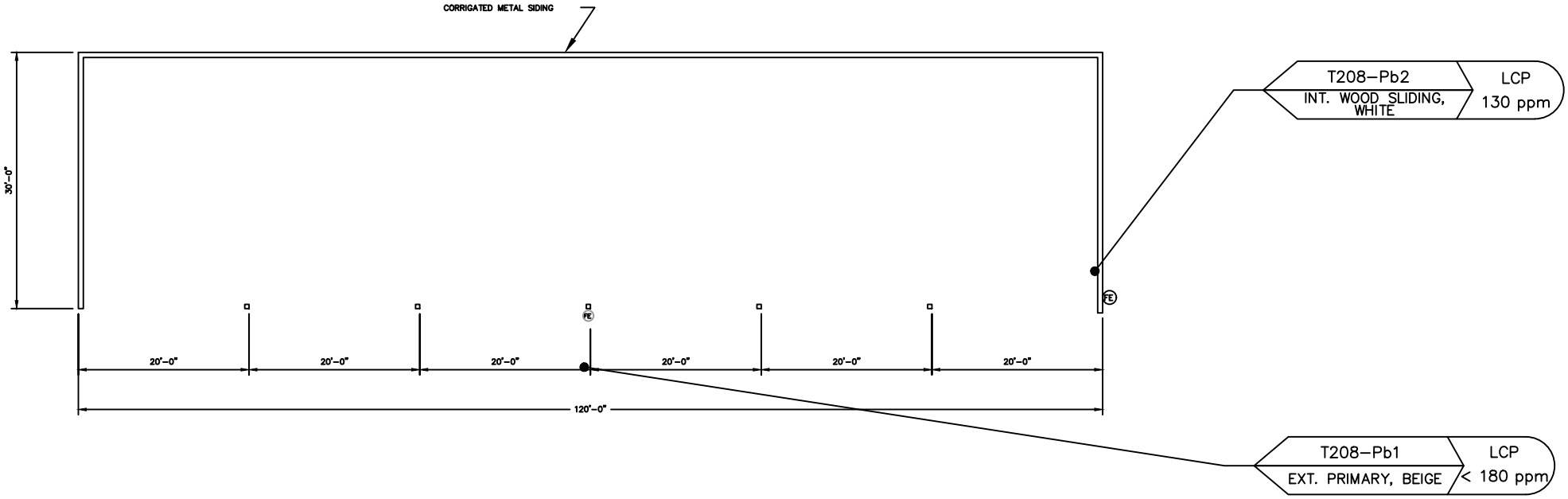
RESULT

ND= NONE DETECTED

UC-ANR

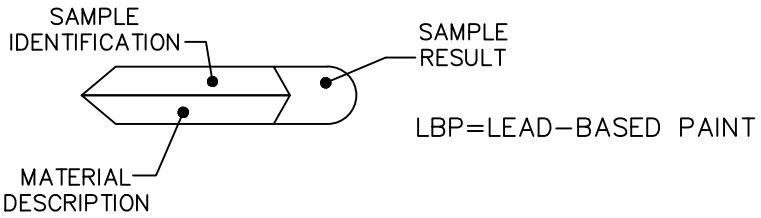
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS & LEAD** SAMPLE LOCATION PLAN **BUILDING #207 EQUIPMENT STORAGE**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 18



LEGEND

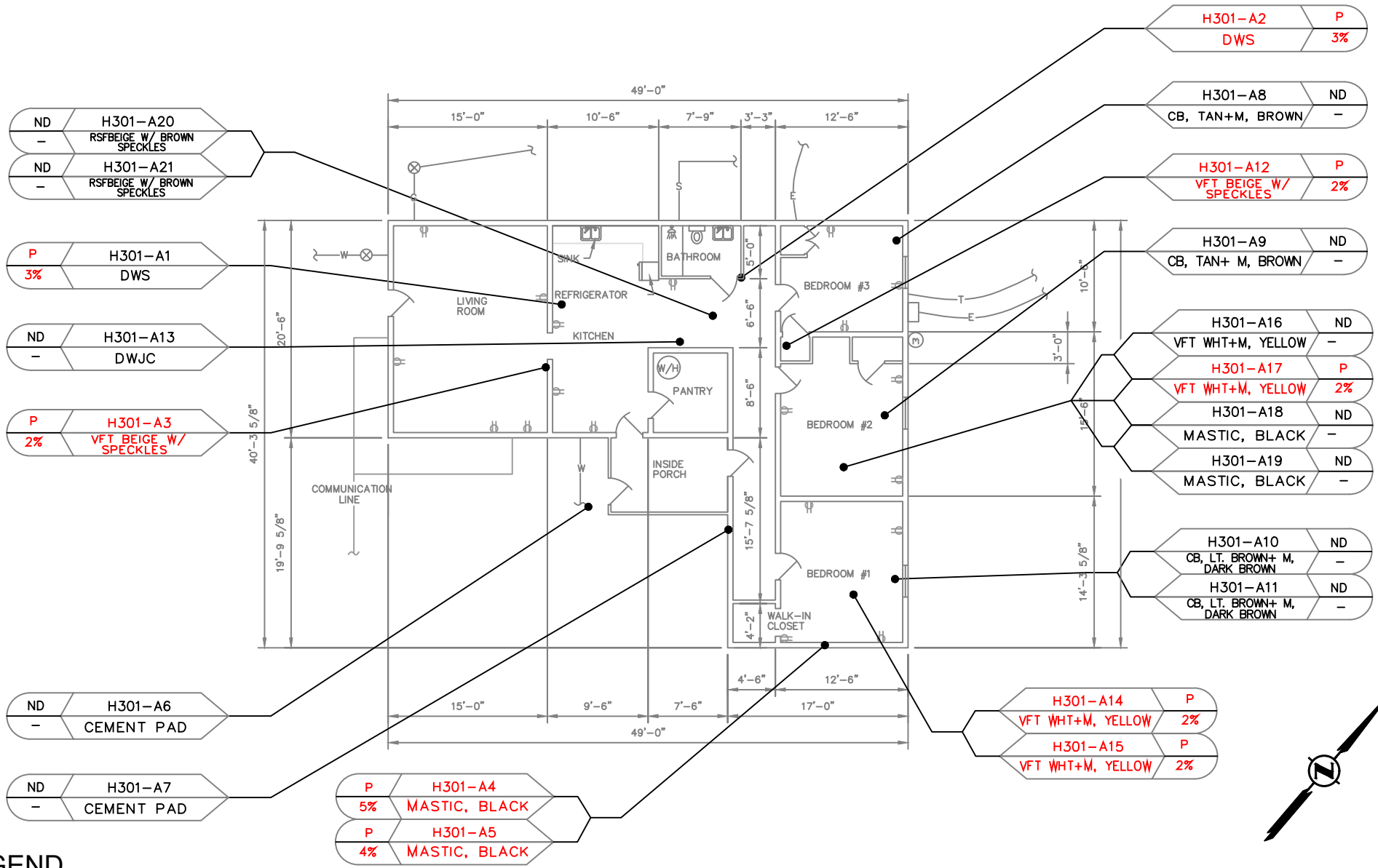
SAMPLE MARKER



UC-ANR

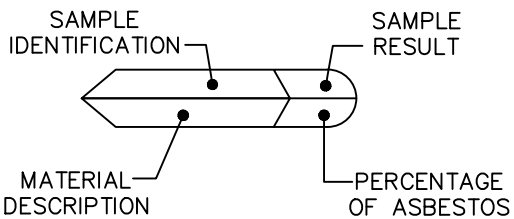
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** SAMPLE LOCATION PLAN
CHECKED: DS	**BUILDING #208 EQUIPMENT STORAGE 2**
APPROVED: SN	JOB NO. 21015.2001 — DWG. NO. FIGURE 19



LEGEND

SAMPLE MARKER



DWS=DRYWALL SYSTEM
CB=COVEBASE
M=MASTIC
RSF=RESILIENT SHEET FLOORING
VFT=VINYL FLOOR TILE

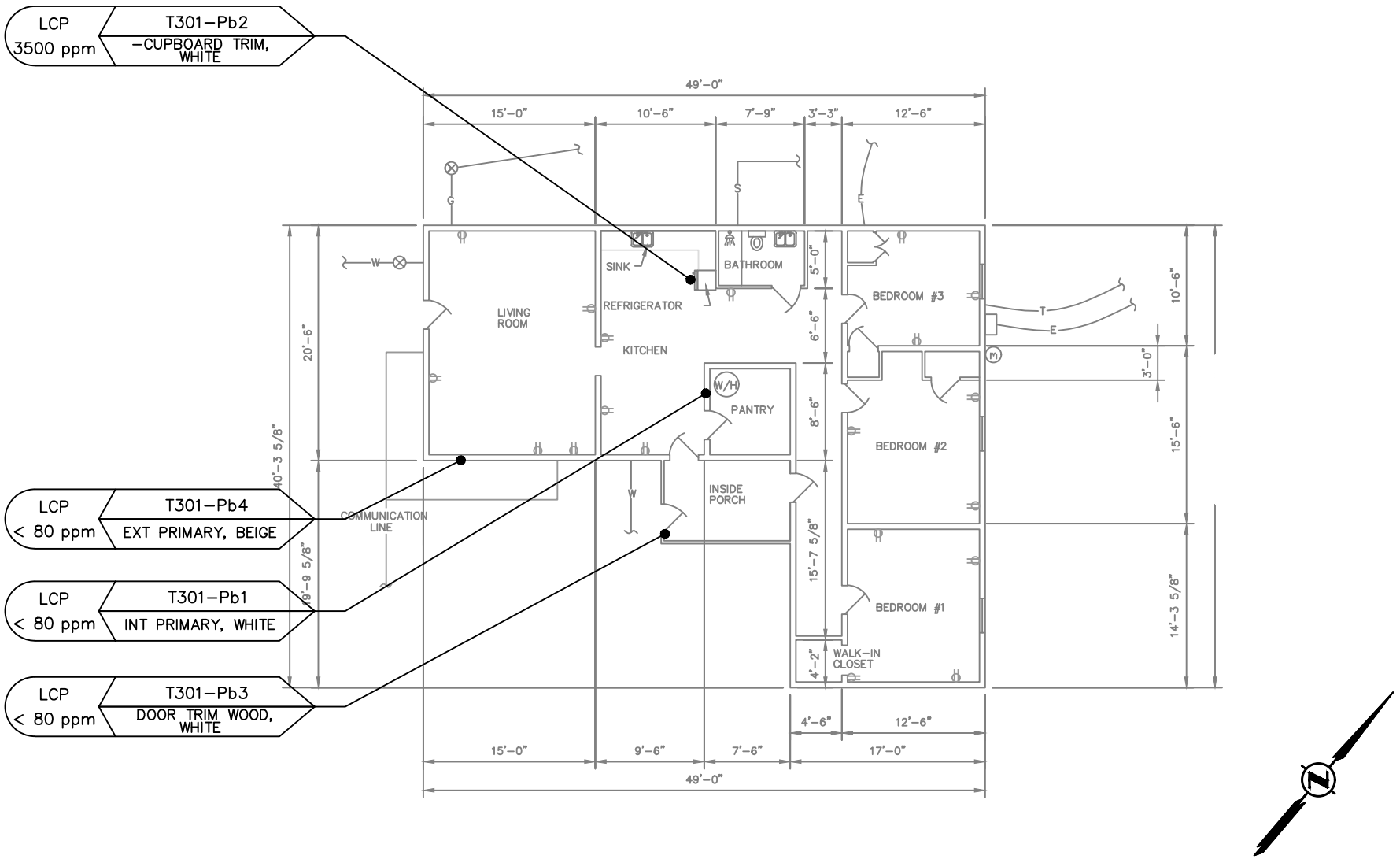
RESULT

ND=NONE DETECTED
P=POSITIVE

UC-ANR

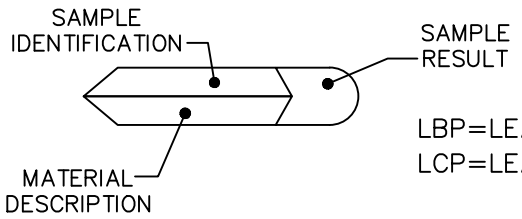
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** SAMPLE LOCATION PLAN **BUILDING #301 RESIDENCE**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 20



LEGEND

SAMPLE MARKER

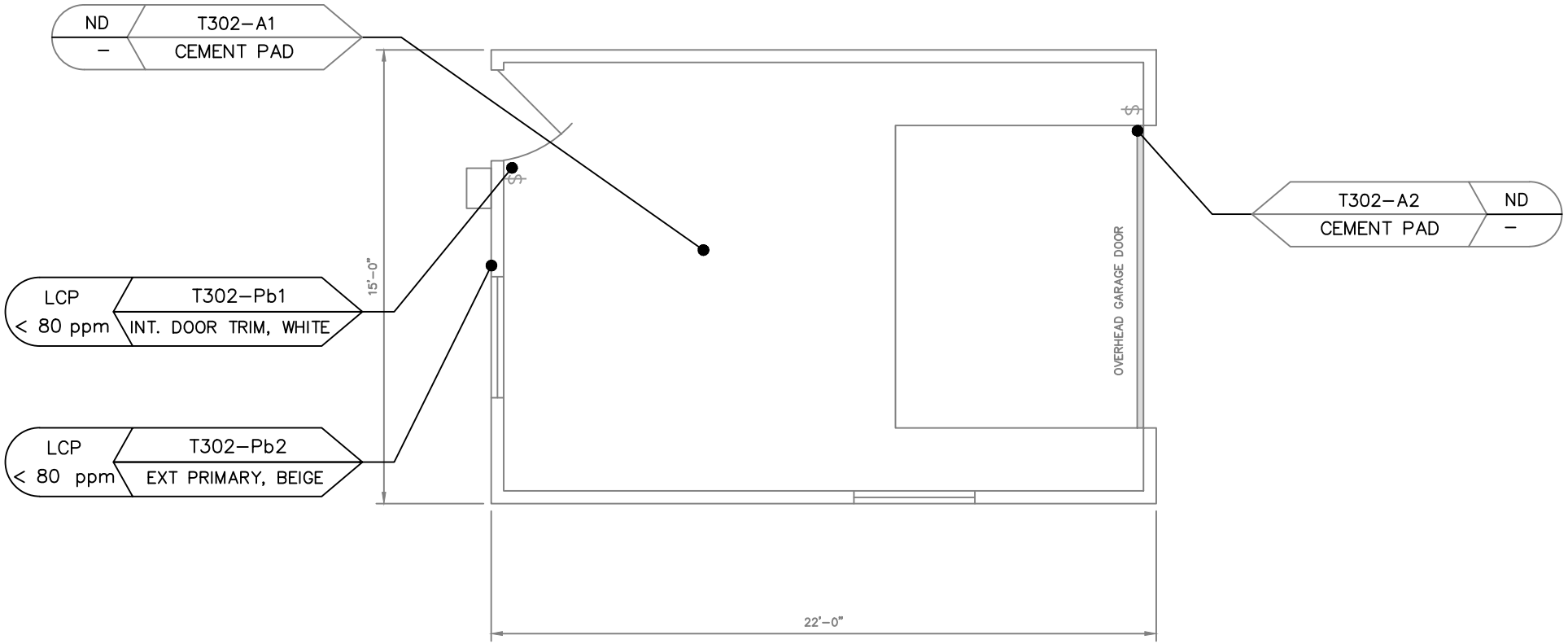


LBP=LEAD–BASED PAINT
LCP=LEAD–CONTAINING PAINT

UC-ANR

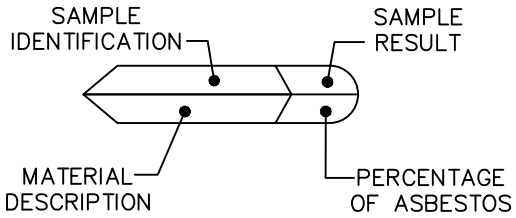
MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **LEAD** SAMPLE LOCATION PLAN
CHECKED: DS	**BUILDING #301 RESIDENCE**
APPROVED: SN	JOB NO. 21015.2001 — DWG. NO. FIGURE 21

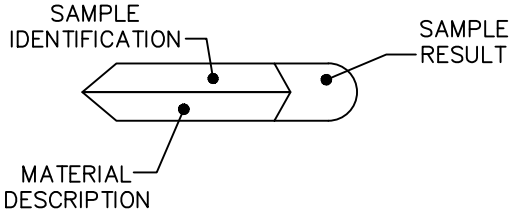


LEGEND

ASBESTOS SAMPLE MARKER



LEAD SAMPLE MARKER



RESULT
ND= NONE DETECTED

CP=CEMENT PAD
ND=NONE DETECTED

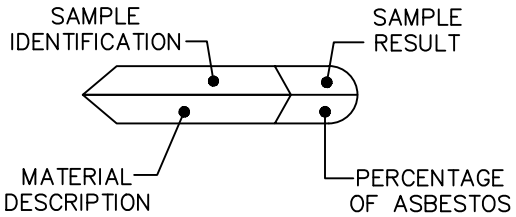
UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

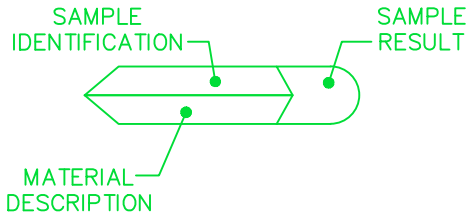
SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS** & LEAD SAMPLE LOCATION PLAN **BUILDING #302 GARAGE**
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 22

LEGEND

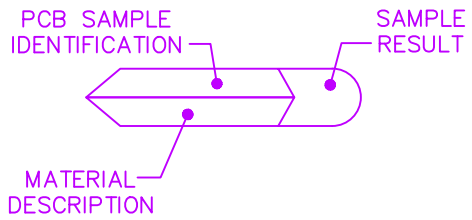
ASBESTOS SAMPLE MARKER

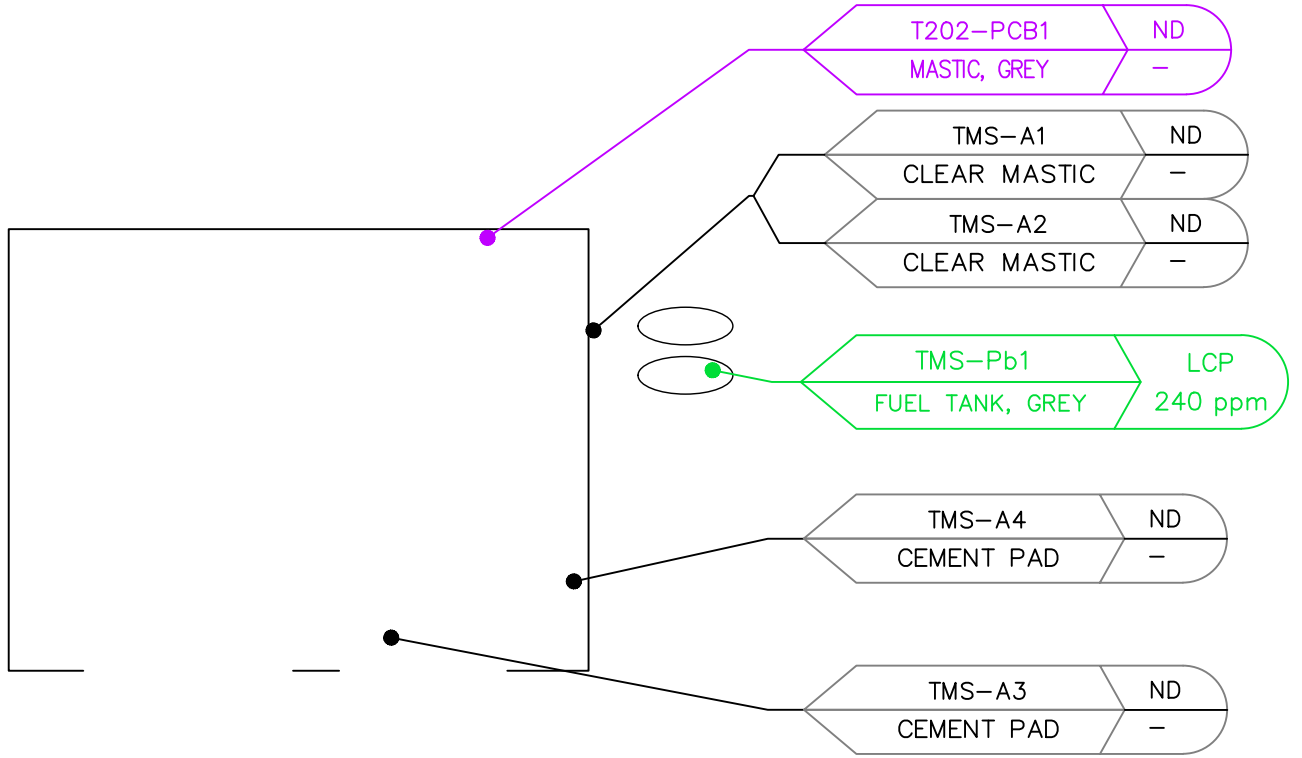


LEAD SAMPLE MARKER



PCB SAMPLE MARKER





SAMPLE KEY

LCP=LEAD–CONTAINING PAINT
ND=NONE DETECTED

UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
LA MIRADA, CA

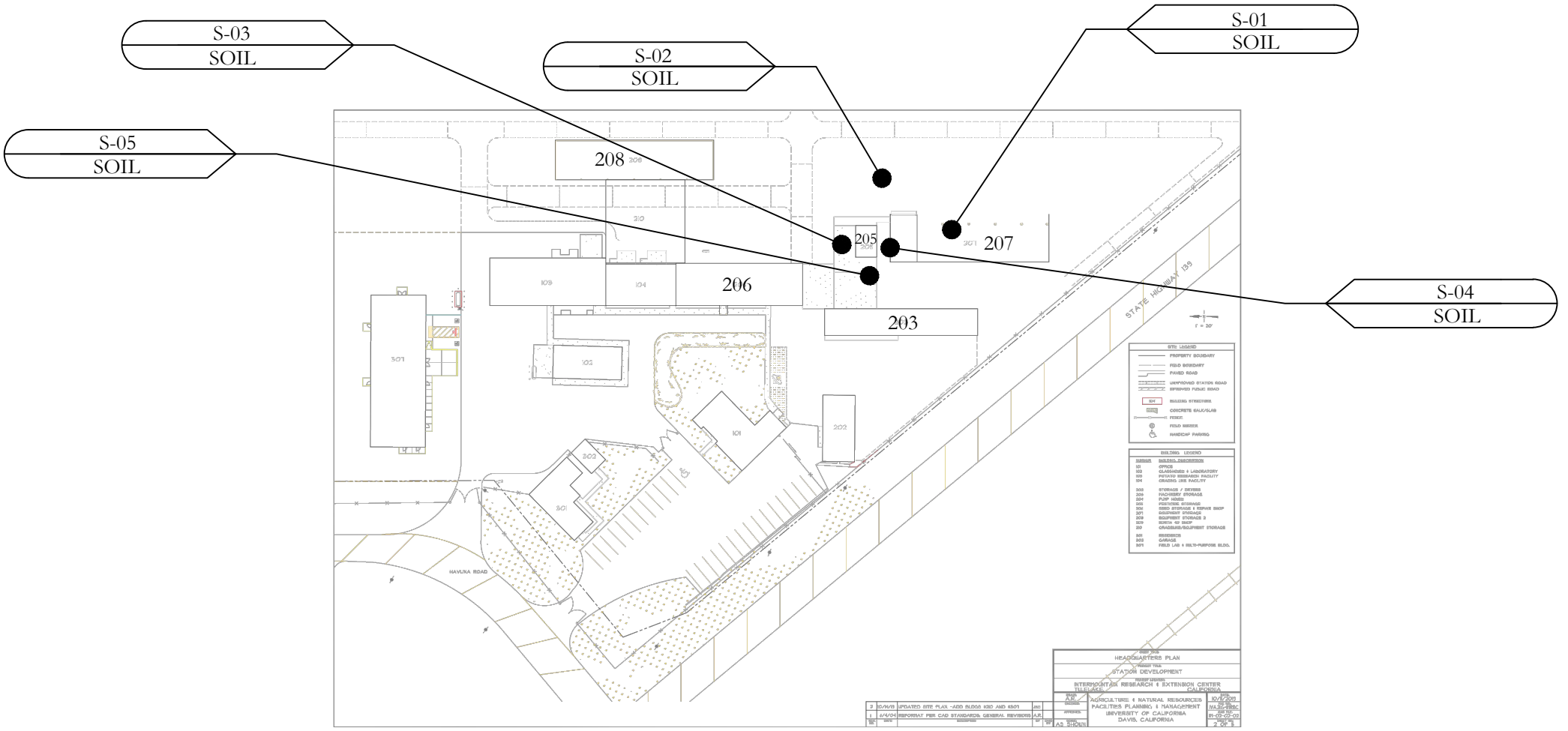
SCALE: N.T.S.	FOR UC INTERMOUNTAIN RECRESEARCH & EXTENSION CENTER TULELAKE, CALIFORNIA
DATE: 8/22/21	
DRWN: speedydg	TITLE **ASBESTOS, LEAD & PCB** SAMPLE LOCATION PLAN MINT STILL BUILDING
CHECKED: DS	
APPROVED: SN	JOB NO. 21015.2001 DWG. NO. FIGURE 23

MILLENNIUM
CONSULTING ASSOCIATES
A MECA Consulting, Inc. Company

APPENDIX G

Site Sampling Maps

(Soil)



LEGEND

SAMPLE IDENTIFICATION

MATERIAL DESCRIPTION

UC-ANR

MILLENNIUM CONSULTING ASSOCIATES
OAKLAND, CA

SCALE: N.T.S.	FOR INTERMOUNTAIN RESEARCH EXTENSION CENTER, TULELAKE, CA
DATE: 7/2/21	
DRWN: BG	TITLE SAMPLE LOCATION PLAN
CHECKED: KE	
APPROVED: AG	JOB NO. 21015.2001 DWG. NO. FIGURE-1

MILLENNIUM
CONSULTING ASSOCIATES
A MECA Consulting, Inc. Company

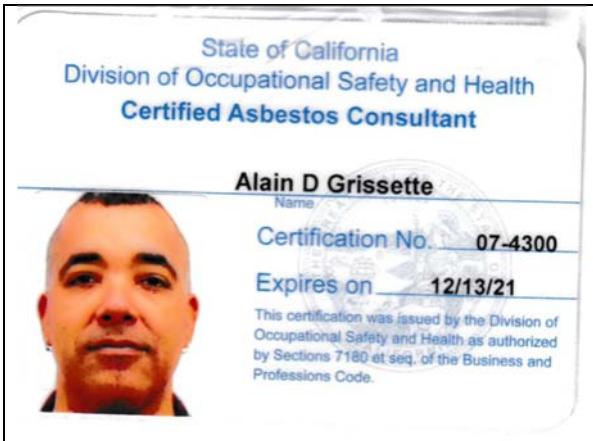
APPENDIX H

Insepctor Certification Log

MILLENNIUM CONSULTING ASSOCIATES
A MECA Consulting, Inc. Company

Inspector Certifications

Project Name:	Site Location:	Project No.
Pre-Demolition HazMat Survey	UC-ANR Intermountain Research & Extension Center, Tulelake, CA 96134	21015.2001



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

Alain D Grissette
Name

Certification No. 07-4300

Expires on 12/13/21

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.

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
Kristy Efe	Lead Sampling Technician	LRC-00007023	7/17/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.