LEAD-BASED PAINT SURVEY
PROJECT RECORD

Cabrillo ES, Edison ES,
Mckinley ES, John Muir ES,
Will Rogers ES, Roosevelt ES,
John Adams MS, Malibu HS,
Santa Monica Alternative School,
and Child Development Services

Prepared for:

Santa Monica - Malibu Unified School District
1651 Sixteenth Street
Santa Monica, California 90404

Prepared by:

CTL Environmental Services
24404 South Vermont Avenue, Suite 307
Harbor City, California 90710
(310) 530-5006

August 14, 2006
CTL Project No. 106-0310

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CTL Environmental Services

24404 South Vermont Avenue, Suite 307 • Harbor City, CA 90710 • TEL: (310) 530-5006 • FAX: (310) 530-0792

REPORTED: August 14, 2006 **CTL JOB NO.:** 106-0310

CLIENT: Santa Monica - Malibu Unified School District
1651 Sixteenth Street
Santa Monica, California 90404

ATTENTION: Mr. Wally Berriman

RE: **Lead Based Paint Survey (Exterior)**
Cabrillo Elementary School, Edison Elementary School, Mckinley Elementary School, John Muir Elementary School, Will Rogers Elementary School, Roosevelt Elementary School, John Adams Middle School, Malibu High School, Santa Monica Alternative School, and Child Development Services

INVESTIGATION

On July 25, 2006 – August 3, 2006 CTL Environmental Services (CTL) conducted a Lead-based Paint Survey of the building exteriors at the above referenced school sites.

Santa Monica - Malibu Unified School District, located at 1651 Sixteenth Street, Santa Monica, California, retained CTL for this investigation. The sampling was conducted by Cesar Ruvalcaba, a Cal-DHS Lead Inspector/ Assessor and Project Monitor and Victor Sanchez a Cal-DHS Lead Inspector/ Assessor and Project Monitor, both employed by CTL.

METHODOLOGY

Various painted surfaces of the building were tested for lead using a portable x-ray fluorescence (XRF) spectrum analyzer. The XRF used was the LPA-1, manufactured by Radiation Monitoring Devices (RMD) of Watertown, Massachusetts. XRF readings were taken by using the device "Quick" mode option. No time setting is required with this option since the device automatically adjusts its reading time to the different paint substrates for precision. The duration of each test result was determined by the substrate density in combination with the age of the radioactive source of the device and the actual reading relative to the "abatement" level (threshold) chosen. The testing combination includes a unique combination of room equivalent, building component type, and substrate.

An XRF Performance Characteristic Sheet (PCS) developed jointly by HUD and the Environmental Protection Agency (EPA) for the RMD LPA-1 was used. The PCS provides information necessary to conduct an inspection of LBP using specific XRF. Based on the PCS, no inconclusive readings in the "Quick" mode were encountered for LBP on brick, concrete, drywall, plaster, metal or wood substrates.

Field calibration checks were performed prior, during, and after each XRF lead inspection to determine that the device is functioning within acceptable limits (tolerance) determined by the manufacturer. Three readings of a red 1.02 mg/cm² Standard Reference Material (SRM) paint film, developed by the National Institute of Standard and Technology (NIST) were taken in the "30-Second Standard" mode option during each calibration check. Each set of readings were averaged and compared to the PCS calibration check limit for the device. Please refer to the attached Appendix C, Field Notes, for the documentation of the quality control calibration checks.

Paint chips were also collected to determine the weight percent concentration of lead in the painted surfaces that were found to be below the EPA, HUD or L.A. County levels analyzed by XRF for construction safety proposed as defined by *Title 8 CCR Section 1532.1.*

Samples of bulk paint chips were collected using a stainless steel scalpel using care to separate the paint chip from the substrate. Samples were placed in sealable sample containers and assigned a unique sample identification number. Various painted surfaces were tested for lead by paint chip sampling. Samples were collected from an approximate minimum area of one-square inch from the affected testing combinations for results to be reported as lead by weight (mg/kg or ppm) only.

Paint chip samples were analyzed at AmeriSci Los Angeles, an ELAP accredited laboratory in Carson, California and LA Testing an ELAP accredited laboratory in South Pasadena, California.

RESULTS

Currently, the State of California, HUD, and the Environmental Protection Agency (EPA) define lead-based paint as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm² of surface area. However, a more stringent level is established by the Los Angeles County Department of Health Services which defines "dangerous level of lead-bearing substances" as paint or other surface coating with lead in excess of 0.7 mg/cm² *(Los Angeles County Code, Title 11, Chapter 11.28, Section 11.28.010 C).*

Based on the location of the subject property in Los Angeles County, the "abatement" level (threshold) setting of 0.7 mg/cm² was chosen for the inspection.

Please refer to Field Notes, for a complete listing of locations analyzed. The following results of tested surfaces were found to contain lead equal or greater than 0.7 mg/cm^2:

Santa Monica Alternative School (SMASH) & John Muir Elementary School (Cafeteria)

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm^2)
10	Exterior room 1, main building	A	Mural	South side of main building	Center	N/A	F	Metal	Black	8.1

Edison Elementary School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm^2)
6	Exterior room 001, administration building	B	Downspout	All buildings on campus	Center	N/A	I	Metal	Blue	1.6
14	Exterior room 001, administration building	C	Fascia	All buildings on campus	N/A	N/A	P	Wood	Blue	1.5
12	Exterior room 001, administration building	C	Window	All buildings on campus	Center	Sash	I	Metal	Blue	0.7
13	Exterior room 001, administration building	C	Sunshade	All buildings on campus	Center	N/A	P	Wood	Blue	1.9
33	Exterior room 004, south restroom building	D	Downspout	All buildings on campus	Right	N/A	I	Metal	Blue	0.7
39	Exterior room 005, building 6	C	Fascia	All buildings on campus	N/A	N/A	F	Wood	Beige	1.9
38	Exterior room 005, building 6	C	Sunshade	All buildings on campus	Right	N/A	F	Wood	Beige	1.3
57	Exterior room 008, building 15	A	Downspout	All buildings in campus	Center	N/A	I	Metal	Blue	0.7
58	Exterior room 008, building 15	D	Storage shed	West side of building	Center	N/A	P	Wood	Blue	2.9
63	Exterior room 010, building 13	D	Sunshade	All buildings on campus	Left	N/A	I	Wood	Beige	1.1

Edison Elementary School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
64	Exterior room 010, building 13	D	Fascia	All buildings on campus	N/A	N/A	P	Wood	Beige	0.7
67	Exterior room 010, building 13	A	Window	All buildings on campus	Center	Sash	P	Wood	Blue	1.0
81	Exterior room 014, covered walkways	D	Post	All covered walkways	Center	N/A	F	Metal	Beige	1.8
83	Exterior room 014, covered walkways	D	Downspout	All buildings and walkways	Left	N/A	P	Metal	Blue	1.5
84	Exterior room 014, covered walkways	D	Ceiling	All covered walkways	Left	N/A	P	Stucco	Beige	0.7
88	Exterior room 015, cafeteria	D	Window	All buildings on campus	Center	Sash	I	Metal	Blue	0.7

McKinley Elementary School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
13	Exterior room 1, administration building	D	Floor	Entry - administration building, classroom building, and cafeteria	Center	N/A	F	Concrete	Yellow	1.7

Child Development Services (Café & Classroom Building)

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
11	Exterior room 1, cafeteria	A	Soffit	Cafeteria and classroom buildings	N/A	N/A	P	Wood	White	8.9
8	Exterior room 1, cafeteria	A	Door	Cafeteria and classroom buildings	Right	U Center	F	Metal	White	0.7
9	Exterior room 1, cafeteria	A	Downspout	Cafeteria and classroom buildings	Right	N/A	F	Metal	White	0.7
28	Exterior room 1, cafeteria	B	Wall	Cafeteria offices	L Center	N/A	F	Ceramic	Green	>9.9

Child Development Services (Café & Classroom Building)

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
21	Exterior room 1, cafeteria	B	Window	Cafeteria and classroom buildings	Center	Right casing	F	Metal	White	0.7
18	Exterior room 1, cafeteria	C	Window	Cafeteria and classroom buildings	Center	Right casing	F	Wood	White	5.0
19	Exterior room 1, cafeteria	C	Window	Cafeteria and classroom buildings	Center	Sash	F	Wood	White	3.7
17	Exterior room 1, cafeteria	C	Door	Cafeteria offices	Center	Right casing	F	Wood	White	4.3
20	Exterior room 1, cafeteria	C	Door (w/ glass)	Cafeteria offices	Center	U Center	F	Wood	White	6.3
13	Exterior room 1, cafeteria	C	Display window	Cafeteria	Center	N/A	F	Wood	Brown	4.6
14	Exterior room 1, cafeteria	C	Post	Covered walkway	Center	N/A	F	Metal	Brown	1.6
12	Exterior room 1, cafeteria	D	Door	Cafeteria and classroom buildings	Center	Right casing	F	Wood	White	2.1

Malibu High School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
9	Exterior room 2, restroom building	A	Backsplash	Boy's and girl's (exterior) restroom building	Center	N/A	I	Ceramic	White	8.6
13	Exterior room 3, buildings B & C	A	Fascia	Building B & C	N/A	N/A	F	Metal	Blue	5.2
15	Exterior room 3, buildings B & C	B	Downspout	Building B & C	Left	N/A	F	Metal	Blue	0.7
14	Exterior room 3, buildings B & C	B	Post	All throughout campus	Right	N/A	F	Metal	Blue	0.7
17	Exterior room 4, building A	B	Door	Building A	Right	U Right	F	Wood	Blue	5.1
19	Exterior room 4, building A	B	Post	All throughout campus	Center	N/A	F	Metal	Blue	0.7
28	Exterior room 6, building F	A	Door	Building F	Center	U Center	F	Wood	Blue	4.4

Malibu High School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
32	Exterior room 7, building D	B	Door	Building D	Center	U Center	F	Wood	Blue	5.8
36	Exterior room 7, building D	B	Handrail	Building D, 2nd floor	Right	N/A	F	Metal	Blue	0.7
37	Exterior room 8, building G	C	Door	Building G	Left	U Left	P	Wood	Blue	0.7
41	Exterior room 8, building G	C	Post	All throughout campus	Center	N/A	F	Metal	Blue	0.7
44	Exterior room 9, building I	D	Backsplash	Exterior, building I	Left	N/A	I	Ceramic	White	>9.9
45	Exterior room 010, gym	C	Downspout	Gym building	Left	N/A	F	Metal	Blue	3.1
47	Exterior room 010, gym	D	Door	Gym building	Right	Right casing	F	Metal	Blue	0.7
61	Exterior room 012, buildings 606-626	D	Post	Building 606-626	Center	N/A	F	Metal	Blue	0.7

Cabrillo Elementary School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
48	Exterior room 011, walkways	D	Ceiling	Walkways - all	Left	N/A	F	Wood	White	1.2
49	Exterior room 011, walkways	A	Post	Walkways, wood ceiling	Center	N/A	F	Metal	Blue	5.8
50	Exterior room 011, walkways	B	Beam	All exterior walkways - support beams	Center	N/A	F	Metal	White	0.7
51	Exterior room 011, walkways	C	Handrail	All exterior handrails	Left	N/A	F	Metal	Green	0.7
52	Exterior room 011, walkways	C	Ceiling	Walkways - stucco ceiling	Center	N/A	F	Stucco	White	1.1

Will Rogers Elementary School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
13	Exterior room 002, rooms 501-506	A	Fascia	All buildings except bungalows	N/A	N/A	F	Wood	White	2.5
14	Exterior room 002, rooms 501-506	A	Window	All buildings except bungalows	Right	Right casing	F	Metal	White	3.1
17	Exterior room 003, rooms 401-406	C	Window	All buildings except bungalows	Center	Right casing	P	Metal	White	3.1

Will Rogers Elementary School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
18	Exterior room 003, rooms 401-406	C	Window	All buildings except bungalows	Center	Sash	P	Metal	White	3.5
25	Exterior room 004, auditorium/ cafeteria	B	Window	All buildings except bungalows	Center	Right casing	P	Metal	White	1.6
26	Exterior room 004, auditorium/ cafeteria	B	Window	All buildings except bungalows	Center	Sash	P	Metal	White	2.0
31	Exterior room 5, rooms 301-306	C	Window	All buildings except bungalows	Right	Right casing	P	Metal	White	1.3
32	Exterior room 5, rooms 301-306	C	Window	All buildings except bungalows	Right	Sash	P	Metal	White	0.7
36	Exterior room 6, rooms 201-206	C	Window	All buildings except bungalows	Center	Right casing	F	Metal	White	4.4
37	Exterior room 6, rooms 201-206	A	Fascia	All buildings except bungalows		N/A	F	Wood	White	3.9
44	Exterior room 7, rooms 101-106	C	Window	All buildings except bungalows	Left	Right casing	P	Metal	White	3.9
45	Exterior room 7, rooms 101-106	C	Window	All buildings except bungalows	Left	Sash	P	Metal	White	3.7
50	Exterior room 009, bungalow 4	A	Window	All buildings except bungalows	Left	Left casing	P	Metal	White	1.7
51	Exterior room 009, bungalow 4	A	Window	All buildings except bungalows	Left	Sash	P	Metal	White	1.6
57	Exterior room 8, walkways	B	Post	Support post at walkways	Left	N/A	F	Stucco	Orange	2.8
58	Exterior room 8, walkways	B	Downspout	All downspouts at walkways	Left	N/A	F	Stucco	Orange	4.3
61	Exterior room 8, walkways	A	Post	Exterior walkways	Center	N/A	F	Stucco	Orange	5.6
62	Exterior room 8, walkways	A	Downspout	Exterior walkways	Center	N/A	F	Stucco	Orange	3.9

John Adams Middle School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
7	Exterior room 001, buildings 92-100	B	Post	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, boy's and girl's gym, auditorium, 44-45, 14-34	Center	N/A	P	Metal	Green	0.7
16	Exterior room 002	C	Door	Boy's and girl's gym - wood door casings	Left	Left casing	F	Wood	Green	8.0
27	Exterior room 004, buildings 90-91	C	Window	Buildings 90-91, 87-89, 84-86, 84-83, 80-81	Right	Right casing	P	Metal	White	0.7
37	Exterior room 006-, buildings 84-86	A	Window	Buildings 90-91, 87-89, 84-86, 84-83, 80-81	Right	Right casing	F	Metal	White	0.7
39	Exterior room 007, buildings 82-83	C	Door	Building 82-83 - wood doors	Left	U Left	F	Wood	Green	1.0
45	Exterior room 009, building 26-27	C	Door	Buildings 26-27 - wood doors	Left	U Left	F	Wood	Green	0.7
50	Exterior room 009, building 26-27	C	Fence	Buildings 26-27, south side, lower roof	Left	N/A	F	Metal	Green	0.7
52	Exterior room 010, auditorium	C	Downspout	Auditorium building	Center	N/A	F	Metal	Green	0.7
53	Exterior room 010, auditorium	C	Window	Auditorium building - metal windows	Right	Sash	F	Metal	White	2.2
54	Exterior room 010, auditorium	C	Window	Auditorium building - metal windows	Right	Right casing	F	Metal	White	2.4
56	Exterior room 011, buildings 21-31	B	Window	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, 14-34, 47	Right	Right casing	F	Wood	White	6.8
57	Exterior room 011, buildings 21-31	B	Window	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, 14-34, 47	Right	Sash	F	Wood	White	8.0

John Adams Middle School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
63	Exterior room 012, buildings 14, 15, 32-34	D	Window	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, 14-34	Left	Left casing	F	Wood	White	6.3
64	Exterior room 012, buildings 14, 15, 32-34	D	Window	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, 14-34	Left	Sash	F	Wood	White	6.7
65	Exterior room 012, buildings 14, 15, 32-34	A	Beam	Walkway support beams for buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, & 14-34	Right	N/A	F	Wood	White	5.8
66	Exterior room 012, buildings 14, 15, 32-34	A	Ceiling	Wood ceilings for walkways, buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, 14-34	Right	N/A	F	Wood	White	5.2
67	Exterior room 012, buildings 14, 15, 32-34	A	Post	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, boy's and girl's gym, auditorium, 44-45, 14-34	Left	N/A	F	Metal	Green	>9.9
71	Exterior room 012, buildings 14, 15, 32-34	A	Case	Buildings 14-34	Center	N/A	F	Wood	Green	5.4
73	Exterior room 013, buildings 16-18	B	Post	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, boy's and girl's gym, auditorium, 44-45, 14-34	Right	N/A	F	Metal	Green	9.3
78	Exterior room 014, building 47	D	Window	Building 47 - display case	Center	Right casing	F	Wood	White	3.7

John Adams Middle School

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
83	Exterior room 015, building 50-57	B	Post	Buildings 92-100, 10-13, 22-24, 21-31, 50-57, 16-18, boy's and girl's gym, auditorium, 44-45, 14-34	Center	N/A	F	Metal	Green	2.6
84	Exterior room 016, buildings 70-73	B	Window	Buildings 70-73 -metal windows	Center	Right casing	F	Metal	White	5.8
85	Exterior room 016, buildings 70-73	B	Window	Buildings 70-73 -metal windows	Center	Sash	F	Metal	White	6.6

Roosevelt Elementary

Reading No.	Room Name	Wall	Structure	Material Location	Sample Location	Member	Paint Condition	Substrate	Paint Color	Lead (mg/cm²)
37	Exterior room 006, girl's restroom	B	Backsplash	Girl's restroom, locker room 103, and storage 503	Left	N/A	I	Ceramic	Purple	4.2
38	Exterior room 006, girl's restroom	A	Window	Girl's restroom, locker room 103, and storage 503	Center	Right casing	P	Wood	Green	3.1
50	Exterior room 0008, walkway	C	Post	Walkways throughout site	Left	N/A	P	Metal	Brown	0.7
51	Exterior room 0008, walkway	A	Ceiling	Walkways throughout site	Left	N/A	P	Wood	White	8.9
52	Exterior room 0008, walkway	A	Beam	Walkways throughout site	Left	N/A	P	Wood	White	7.6

The following are painted surfaces with results equal to or greater than 5,000 ppm of lead as tested by paint chip analysis. These surfaces are subject to regulation by the County of Los Angeles, the Cal-DHS, and the EPA.

Edison Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Crawlspace, access door	27	Wood	Blue	Administration building - crawlspace access, building 7 - planters	7,400
Window casing (old)	29	Wood	Blue	Window casings - all buildings except library	13,000
Door casing	33	Wood	Brown	Door casing - 5, 6, L2, 15, 14, 13	5,800
Handrail	35	Metal	Blue	Handrails - 7, administration, north restrooms, cafeteria	21,000

Child Development Services (Café & Classroom Building)

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Window casing	64	Wood	Beige	Classroom building and back side of café building	120,000

Malibu High School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Facia	9029	Metal	Blue	All buildings and walkways except bungalows, new gym buildings and buildings 606-626, and building B & C	5,600
Door	9032	Wood	Blue	Buildings B & C, E, G, I, gym	8,000
Door casing	9047	Metal	Blue	Gym, Building H, boy's and girl's buildings, buildings B & C, buildings A, E, F, D, G, I	21,000

Will Rogers Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Door casing	80105	Metal	White	All buildings, except bungalows	9,800

John Adam Middle School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Window sash	9054	Metal	White	Buildings 90-91, 87-89, 82-83, and 81-80, 84-86	7,700
Window sill	9055	Wood	White	Buildings 80-81, 82-83, 84-86, 87-89, 90-91	5,200
Ceiling	9062	Wood	White	Buildings 92-100 - walkway ceilings	8,300
Support beam	9064	Wood	White	Buildings 26-27 and 92-100	8,400
Door casing	9067	Wood	Green	All buildings except gym - wood door casings	6,900
Support post	9070	Metal	Green	Buildings 92-100, cafeteria, 90-91, 87-89, 84-86	12,000

The following are results of painted surfaces with any detectable levels of lead in paint below 5,000 ppm that were determined by paint chip sampling. When disturbed for construction purposes these surfaces are subjected to Cal-OSHA exposure assessment requirements set forth in *Title 8 CCR, Section 1532.1(d)*. This regulation requires initial employee exposure monitoring to evaluate work exposure during work that disturbs paint with any detectable level of lead. If airborne lead levels are above the established Cal-OSHA Action Limit (AL) or Permissible Exposure Limit (PEL), additional monitoring and respiratory protection is required.

John Muir Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Downspout	11	Metal	Brown	Gutter and downspout – buildings 500 and 600	1,100

Edison Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Wall	26	Stucco	Beige	All walls - all permanent buildings	180
Door casing	28	Metal	Brown	Doors, door casings - administration, library, restrooms, and cafeteria	140
Downspout	30	Metal	Blue	New downspout, gutter, wall flashings - library and gutter of covered walkways	320
Window casing	31	Metal	Brown	Window casing - library	170
Door	36	Metal	Brown	Doors (old) - 15, 14, 13, 7, 6, 5, 4, 3	1,800
Floor	37	Concrete	Yellow	Floor - all building, except portables	170

Edison Elementary School - Portables

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Wall	38	Wood	Beige	Walls and ceilings of all portables	110
Wall	42	Metal	White	Structural metal in 29	260

NOTE: Window casings with positive window sashes are present on top of arcades on roof level of buildings 5, 6, 12, 15, 14, 13, 7, 3, 4. Old ashes are wood /metal in the rest of the buildings

McKinley Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Wall	43	Stucco	Beige	Walls and ceilings - administration building, classroom building, child care center, cafeteria	140
Floor	44	Concrete	Gray	Floor - administration building	150
Column	45	Metal	White	Stairs, stairs railings, stair fence - administration building, classroom building, child care center	1,200
Gutter	46	Metal	White	Gutter, wall flashings, downspout - administration building, classroom building, child care center, Café	540
Facia	47	Wood	White	Facia - administration building, classroom building, child care center, cafe	3,400
Door	48	Metal	Brown	Administration building, classroom building, child care center, cafe	230
Door casing	49	Metal	White	Administration building, classroom building, child care center, cafe	4,000
Fence	50	Metal	Brown	Exterior campus fencing	560
Handrail	51	Metal	Brown	Downspout, gutter, roof flashing, handrails, door casings, doors - B10-B11, and Conley PE	760
Window casing	52	Metal	Gray	Window casings - administration building	130
Wall	53	Stucco	Beige	Walls - B10-B11 and Conley PE	210
Handrail	54	Metal	White	Administration building, classroom building, café	230

McKinley Elementary School - Portables

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Wall	55	Wood	Beige	Walls and ceilings - portables	190

Santa Monica-Malibu Unified School District
CTL Project No. 106-0310
August 14, 2006

Child Development Services (Café & Classroom Building)

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION
Wall	61	Wood	Beige	Under windows in both buildings
Door (flat)	62	Wood	Brown	Back side of café and all doors in classroom building

Malibu High School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION
Handrail	9030	Metal	Blue	All exterior handrails
Downspout	9040	Metal	Dark blue	Buildings 606-626
Downspout	9044	Metal	Blue	Bungalows 511-513 - downspouts, gutters, flashings
Vent	9048	Metal	Blue	All buildings except bungalows, new gym, and buildings 606-626

Cabrillo Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION
Downspout	9015	Metal	Gray	Cottage A, B, bungalows 24 & 25 - downspouts, gutters, and flashing
Handrail	9017	Metal	Gray	Bungalows 25 & 26
Flashing	9021	Metal	Blue	All flashings, facia, and gutters (except bungalow buildings)
Wall	9022	Stucco	Light blue	All buildings except bungalows buildings
Window sill	9024	Wood	Blue	Buildings B, C, & D

Will Rogers Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION
Gutter	80102	Metal	White	All buildings, except bungalow
Downspout	80103	Metal	Orange	Upper downspouts in all buildings except bungalows
Handrail	80106	Metal	Orange	Walkway handrails
Flashing	80116	Metal	White	All buildings except t bungalows 3, 4, 5, 6
Conduit cover	80117	Metal	White	Walkway roof

John Adam Middle School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Wall	9057	Concrete	White	Buildings 70-73	100
Door casing	9061	Metal	Green	All buildings	810
Facia	9065	Wood	Green	Buildings 92-100, auditorium and walkway to buildings 10-13, 21-31, 44-45, 16-18, 50-57, 47, 14-34, boy's and girl's gym	4,900
Piping	9068	Metal	White	All building - water, electrical, conduits and electrical boxes	160
Downspout	9071	Metal	White	Buildings 70-73	270

Roosevelt Elementary School

COMPONENT	SAMPLE NUMBER	SUBSTRATE	PAINT COLOR	MATERIAL LOCATION	RESULTS (ppm)
Flashing	8998	Metal	Green	All buildings except bungalows 23-26, 38-41, and 7	160
Window casings	9000	Metal	Green	All buildings windows casings and sashes except bungalows 23-26, 38-41, and 7 (and casings - buildings 8-13)	310
Handrail	9003	Metal	Brown	Buildings 38-37 - handrails and support posts	130

CONCLUSIONS & RECOMMENDATIONS

Abatement is recommended for damaged LBPs, or if the condition of the materials, which are noted as being in good condition, change. Abatement is also recommended for paints impacted by renovation or demolition activities.

According to Federal Regulations and Guidelines, LBP abatement is the permanent (defined as designed to last at least 20 years, or, in case of encapsulation, a 20-year product warranty) elimination of LBP hazards through replacement, enclosure, encapsulation, paint removal, and cleaning to remove lead-contaminated dust.

The chance exists that additional suspect lead-containing materials may be exposed during demolition and/or renovation activities. Such materials should be sampled and analyzed for lead content prior to any renovation and/or demolition activities that may impact these materials.

Workers trained in proper safety and respiratory techniques should perform renovation activities that may impact the LBP described in this report.

Work activities impacting LBPs pose a potential exposure risk for workers and/or building occupants. All construction work where an employee may be occupationally exposed to lead must comply with Cal-OSHA requirements set forth in *8 CCR 1532.1*. This regulation requires initial employee exposure monitoring to evaluate worker exposure during work that disturbs lead-containing materials (lead present in detectable levels).

CTL suggests that engineering controls, respiratory protection and personal protective equipment be employed at the start of a project that may disturb LBP.

Additionally, waste items generated during an abatement or demolition project should be properly sampled and profiled to determine the final disposition of the waste.

An Operations & Maintenance (O&M) program is recommended for the identified LBPs which are in good condition.

Unlike abatement, an O&M program or interim control is a set of measures designed to temporarily reduce human exposure or possible exposure to LBP hazards. Such measures may include specialized cleaning, repairs, maintenance, painting, temporary containment, and management and resident education programs. Visual monitoring conducted by owners, and/or reevaluations by risk assessors are integral elements of an interim control. An initial evaluation of potential LBP hazard by a certified risk assessor is recommended for a successful implementation of the interim controls.

ASSUMPTIONS AND LIMITATIONS

This report has been prepared for the exclusive use of Santa Monica - Malibu Unified School District. In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the standard of practice measured on the date of work in the locale of the project site for similar type studies.

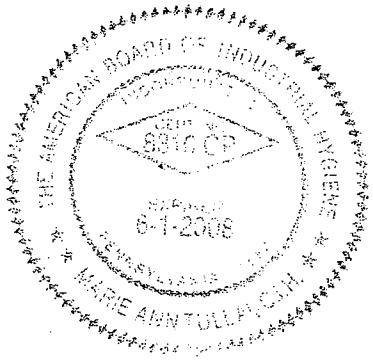
CTL has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions to the extent that they have not been contradicted by data obtained from other sources. Accordingly, CTL accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed. In addition, CTL will not accept liability for any loss, injury, claim, or damage arising directly or indirectly from any use or reliance on this report. CTL makes no warranty, expressed or implied.

Material quantities are in some cases listed within this document. These quantities are not intended to be used for removal bidding purposes. Nor is this document intended as a contract manual. Work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals, and notifications should in all cases be addressed in a separate and independent bidding and contract document.

If you have any questions, please feel free to contact the undersigned at (310) 530-5006. We appreciate the opportunity to be of service to Santa Monica - Malibu Unified School District.

Respectfully submitted,
CTL Environmental Services

Marie Tullai



Marie Tullai, CIH
Director, Hazardous Materials Division
Certified Asbestos Consultant
Cal-OSHA Cert. #92-0218
Certified Lead Inspector/Assessor
DHS Cert. #I-11088

MT/lb
Attachments