

June 05, 2009

Asbestos and Pb (Lead) Survey UCSB Biology Building 571

The University of California Santa Barbara (UCSB), Design and Construction Services (DC&S) has compiled this report to disclose existing knowledge of asbestos and Pb (Lead) containing building components located at Buildings 571 on the UCSB Campus.

Asbestos Sampling

Table 1.0 Asbestos Laboratory Reports lists the reports attached by Report Number, Date, Laboratory, Analysis Type, and Comments.

Table 1.0 - Asbestos Laboratory Reports

Report #	Report Date	Laboratory	Analysis Type	Comments
B080556	01/18/2006	Forensic Analytical	PLM EPA Method 600/R-93-116	Typical floor tile and mastic samples throughout building.
B080976	01/30/2006	Forensic Analytical	PLM EPA Method 600/R-93-116	Typical Pipe insulation sample throughout building.
B093081	12/08/2006	Forensic Analytical	PLM EPA Method 600/R-93-116	Gypsum, plaster, ceiling tile, baseboard mastic, lab bench samples. Typical throughout building.
B108703	01/29/2008	Forensic Analytical	PLM EPA Method 600/R-93-116	Gypsum, floor tile and mastic, lab benches, joint compound patch. Typical throughout building.
B121372	02/12/2009	Forensic Analytical	PLM EPA Method 600/R-93-116	Fireproofing debris, plaster samples. Typical throughout building.

Lead Paint Sampling Results

Table 2.0 Pb (Lead) Laboratory Reports lists the reports attached by Report Number, Date, Laboratory, Analysis Type, and Comments.

Table 2.0 – Pb (Lead) Laboratory Reports

Report #	Report Date	Laboratory	Analysis Type	Comments
M082849	01/17/2007	Forensic Analytical	TTLC Metal Analysis Flame AA	Paint samples on concrete and plaster. Typical throughout building.
M091495	01/30/2008	Forensic Analytical	TTLC Metal Analysis Flame AA	Paint samples on gypsum board and concrete. Typical throughout building.

UCSB's industrial wastewater permit¹ local limit for lead is 1.040 mg/l. The California Code of Regulations, Title 22 classifies waste containing more than 50 ppm lead as hazardous² without further waste characterization. If you have any question regarding this report please contact me at 805-451-1918 or gene.horstin@dcs.ucsb.edu

Sincerely,

Gene Horstin
University of California Santa Barbara
Asbestos and Pb Clerk of the Works
Asbestos Abatement Project Designer Cert# PD39-09
Asbestos Inspector & Management Planner Cert# BIMP91-09
Asbestos Contractor & Supervisor Cert# CS182-09
CDPH Lead Inspector/Assessor ID# 20134

¹Industrial Wastewater Discharge Permit Number IV-413, Part I, Wastewater Discharge Limitations and Monitoring Requirements – Local Limits

²TITLE 22, Social Security, Division 4.5, Environmental Health Standards for the Management of Hazardous Waste, Chapter 11, Identification and Listing of Hazardous Waste, Article 3, Characteristics of Hazardous Waste, §66261.24, Characteristic of Toxicity

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

U.C. Santa Barbara
Project Manager
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: B080556
Date Received: 01/16/06
Date Analyzed: 01/18/06
Date Printed: 01/18/06
First Reported: 01/18/06

Job ID/Site: BIO II 3rd Flr - Bldg. 571 third floor - WO# 120-10

FASI Job ID: 5151-1199

Date(s) Collected: 01/13/2006

Total Samples Submitted: 5

Total Samples Analyzed: 5

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20060113-571-ASB-01	10483991						
Layer: Black Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
20060113-571-ASB-02	10483992						
Layer: Black Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
20060113-571-ASB-03	10483993						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
20060113-571-ASB-04	10483994						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
20060113-571-ASB-05	10483995						
Layer: Tan Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							

Client Name: U.C. Santa Barbara

Report Number: B080556

Date Printed: 01/18/06

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
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James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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University of California, Santa Barbara
 Environmental Health and Safety - Client # 5151 - 1199
 Asbestos and Lead Program -- Contact J. Ripley 805-893-7984 jernma.ripley@dcs.ucsb.edu

Bulk Sample Log
 Asbestos

Project: Bio. II 3rd floor renovation

Date: 01/13/06 W.O.#: 120-10...

Sampler Name: G. Horstin

Building Name/Number: Bldg. 571 third floor

Sample Analysis

Turn Around

PLM	12 HR	24 HR	Other
Lab Instructions:	Due Date: 01/19/2006		

Sample No.	Material(s)	HID No.	Location
20060113-571-ASB-01	Black 12" floor tile, black mastic		Bldg. 571, 3 rd floor, in north hallway, 2' from south wall, 22' from east wall
20060113-571-ASB-02	Black 12" floor tile, black mastic		Bldg. 571, 3 rd floor, in north hallway, 2' from south wall, 22' from east wall
20060113-571-ASB-03	Tan 12" floor tile, black mastic		Bldg. 571, rm. 3115, 8" from south wall, 7' from west (main) door
20060113-571-ASB-04	Tan 12" floor tile, black mastic		Bldg. 571, rm. 3110, 12" from west wall, 2' from south wall
20060113-571-ASB-05	Tan 12" floor tile, black mastic		Bldg. 571, rm. 3119, 12" from west wall, 2' from south wall

Chain of Custody

Relinquished by Name: G. Horstin Company: UCSB

Date/Time: 1/13/06

Received by Name: [Signature] Company: EASI

Date/Time: 1/16/06 01:55



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

2006 FEB -0 AM 8:27

U.C. Santa Barbara
Project Manager
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: B080976
Date Received: 01/26/06
Date Analyzed: 01/30/06
Date Printed: 01/30/06
First Reported: 01/30/06

Job ID/Site: BIO II 3rd Flr Remodel

FASI Job ID: 5151-1199

Date(s) Collected: 01/25/2006

Total Samples Submitted: 3

Total Samples Analyzed: 3

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20060125-571-PLM-01	10487565						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20060125-571-PLM-02	10487566						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20060125-571-PLM-03	10487567						
Layer: White Semi-Fibrous Material		Amosite	7 %	Chrysotile	3 %		
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

U.C. Santa Barbara
J. Ripley
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: B093081
Date Received: 12/07/06
Date Analyzed: 12/08/06
Date Printed: 12/08/06
First Reported: 12/08/06

Job ID/Site: Bio II 3rd floor remodel - Bldg. 571 W.O # 120-23

FASI Job ID: 5151-1306

Date(s) Collected: 12/06/2006

Total Samples Submitted: 12

Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20061206-571-PLM-01	10587703						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20061206-571-PLM-02	10587704						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20061206-571-PLM-03	10587705						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20061206-571-PLM-04	10587706						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20061206-571-PLM-05	10587707						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
20061206-571-PLM-06	10587708						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
20061206-571-PLM-07	10587709						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							

Client Name: U.C. Santa Barbara

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20061206-571-PLM-08	10587710						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
20061206-571-PLM-09	10587711						
Layer: White Drywall			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
20061206-571-PLM-10	10587712						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20061206-571-PLM-11	10587713						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20061206-571-PLM-1	10587714						
Layer: Beige Fibrous Tile			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (2 %)	Fibrous Glass (90 %)						

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Project: Bio. II 3rd floor remodel **Date:** 12/06/2006 **W.O.#:** 120-23

Sampler Name: G. Horstin **Building Name/Number:** Bldg. 571 3rd floor

Sample Analysis		Turn Around	
PLM	12 HR	24 HR	Other
Lab Instructions:		Due Date: 12/08/2006	

Sample No.	Material(s)	HID No.	Location
20061206-571-PLM-01	Black lab top bench		Bldg. 571, rm. 3115, west bench.
20061206-571-PLM-02	Black lab top bench		Bldg. 571, rm. 3115, middle bench.
20061206-571-PLM-03	Black lab top bench		Bldg. 571, rm. 3115, east bench.
20061206-571-PLM-04	Black lab top bench		Bldg. 571, rm. 3115C, south bench.
20061206-571-PLM-05	Gypsum board, tan paint		Bldg. 571, rm. 3106, east wall, 2' north of east door, 2' up from floor.
20061206-571-PLM-06	Gypsum board, light blue paint.		Bldg. 571, rm. 3115, south wall, 8' west of main door, 4' up from floor.
20061206-571-PLM-07	Gypsum board, tan paint.		Bldg. 571, rm. 3124, west wall, 7' from south wall, 4' up from floor.
20061206-571-PLM-08	Gypsum board, tan paint.		Bldg. 571, rm. 3119, north wall, 2' from east wall, 2' up from floor.
20061206-571-PLM-09	Plaster wall		Bldg. 571, rm. 3106A, north wall, 2" west of door, 5' up from floor.
20061206-571-PLM-10	Tan base cove mastic.		Bldg. 571, rm. 3119, east wall, 4' from north wall, 3" up from floor.
20061206-571-PLM-11	Tan base cove mastic.		Bldg. 571, rm. 3106, east wall, 2' north of east door, 2" up from floor.
20061206-571-PLM-12	White 2'x2' ceiling tile.		Bldg. 571, 3 rd floor hall ceiling, north/south corridor, in front of rm. 3119.

Chain of Custody

Relinquished by Name: G. Horstin Company: UCSB

Date/Time: for 12/06

Received by Name: [Signature] Company: FASI

Date/Time: 12/7/06

Digitally signed by Gene
 DN: cn=Gene, ou=EH&S,
 UCSB, mail=horstin@ucsb.edu
 Reason: I am the author of this
 document
 Location: santa barbara
 Date: 2006.12.06 10:06:54
 #000

1030



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

U.C. Santa Barbara
Jerome Ripley
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: B108703
Date Received: 01/29/08
Date Analyzed: 01/31/08
Date Printed: 01/31/08
First Reported: 01/31/08

Job ID/Site: Bio II Stem Cell Project - Bldg. 571 Rm 3166&3174 - WO#015-80

FASI Job ID: 5151-1448

Date(s) Collected: 01/28/2008

Total Samples Submitted: 11

Total Samples Analyzed: 11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20080128-571-PLM-01	10721459						
Layer: Off-White Joint Compound			ND				
Layer: White Fibrous Material			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (10 %)							
20080128-571-PLM-02	10721460						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
20080128-571-PLM-03	10721461						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20080128-571-PLM-04	10721462						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20080128-571-PLM-05	10721463						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20080128-571-PLM-06	10721464						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20080128-571-PLM-07	10721465						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Report Number: B108703
Date Printed: 01/31/08

Client Name: U.C. Santa Barbara

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20080128-571-PLM-08	10721466						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
20080128-571-PLM-09	10721467						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
20080128-571-PLM-10	10721468						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
20080128-571-PLM-11	10721469						
Layer: Brown Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							



James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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5151-1448

University of California, Santa Barbara
 Environmental Health and Safety - Client # 5151
 Asbestos and Lead Program - Contact J. Ripley 805-893-7984 jerome.ripley@dcs.ucsb.edu

Bulk Sample Log
 Asbestos

Project: Bio. II Stem Cell Project

Date: 01/28/2008

W.O.#: 015-80

Sampler Name: G. Horstin

Building Name/Number: Bldg. 571, Rm. 3166 & 3174

Sample Analysis

Turn Around

PLM	12 HR	24 HR	Other
Lab Instructions:	Due Date: 01/31/2008		

Sample No.	Material(s)	HID No.	Location
20080128-571-PLM-01	Brown paint, joint compound, paper.		Bldg. 571, Rm. 3166, east wall, 4' from south wall, 4' up from floor.
20080128-571-PLM-02	Tan 12" floor tile, black mastic.		Bldg. 571, Rm. 3166, floor, 7' from north wall, 11' from west wall.
20080128-571-PLM-03	Black lab bench.		Bldg. 571, Rm. 3166, 2 nd lab bench from east wall.
20080128-571-PLM-04	Black lab bench.		Bldg. 571, Rm. 3166, 2 nd lab bench from west wall.
20080128-571-PLM-05	Black lab bench.		Bldg. 571, Rm. 3166, fume-hood bench top.
20080128-571-PLM-06	Black lab bench.		Bldg. 571, Rm. 3174, east bench.
20080128-571-PLM-07	Black lab bench.		Bldg. 571, Rm. 3174, west bench.
20080128-571-PLM-08	Tan 12" floor tile, black mastic.		Bldg. 571, Rm. 3174, floor, 1' from east wall, 8' from south wall.
20080128-571-PLM-09	Tan paint, paper, gypsum.		Bldg. 571, Rm. 3166, north wall, 6' from west wall, 4.5' up from floor.
20080128-571-PLM-10	Tan paint, paper, gypsum.		Bldg. 571, hall outside rm. 3174, 1' north of door, 4.5' up from floor.
20080128-571-PLM-11	Black 12" floor tile, black mastic.		Bldg. 571, in doorway to rm. 3174.

Chain of Custody

Relinquished by Name: G. Horstin Company: UCSB

Date/Time: for 1/28/08

Received by Name: CE Company: FASI

Date/Time: 1/29/08

1025 F

Digitally signed by Gene Horstin
 DN: cn=Gene Horstin, o=UCSB, ou=Design and Construction, email=horstin@dcs.ucsb.edu
 Reason: I am the author of this document
 Location: UC Santa Barbara
 Date: 2008.01.28 14:05:25
 +0800



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

U.C. Santa Barbara
Project Manager
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: B121372
Date Received: 02/12/09
Date Analyzed: 02/12/09
Date Printed: 02/12/09
First Reported: 02/12/09

Job ID/Site: Bio.II Sprinkler installation - Bldg. 571 7th Floor corridor

FASI Job ID: 5151-1546

Date(s) Collected: 02/11/2009

Total Samples Submitted: 3

Total Samples Analyzed: 3

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
20090211-571-PLM-01	10839794						
Layer: Debris		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
Comment: Wipe/Microvac/Debris sample: Quantitative data may not be repeatable or represent the entire sample.							
20090211-571-PLM-02	10839795						
Layer: White Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
20090211-571-PLM-03	10839796						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Metals Analysis of Paints

U.C. Santa Barbara
Jerome Ripley
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: M082849
Date Received: 01/12/07
Date Analyzed: 01/17/07
Date Printed: 01/17/07
First Reported: 01/17/07

Job ID / Site: W.O.#120-23 - Bio II 3rd Floor Remodel, Bldg. 571, 3rd Floor **FA SI Job ID:** 5151-1306

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
20070111-571-PB-01	30275675	Pb	5200	ppm	200	EPA 3050B/7420
20070111-571-PB-02	30275676	Pb	1700	ppm	70	EPA 3050B/7420
20070111-571-PB-03	30275677	Pb	2300	ppm	60	EPA 3050B/7420

* The Units for the Reporting Limit (practical quantitation limit) are the same as the Units for the Final Results.

Dave Sandusky, Laboratory Supervisor, Hayward Laboratory

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Metals Analysis of Paints

U.C. Santa Barbara
Jerome Ripley
Design and Construction Svcs
Building 370
Santa Barbara, CA 93106

Client ID: 5151
Report Number: M091495
Date Received: 01/29/08
Date Analyzed: 01/30/08
Date Printed: 01/30/08
First Reported: 01/30/08

Job ID / Site: Bio II Stem Cell Project - Bldg. 571, Rms. 3166 & 3174

FA SI Job ID: 5151-1448

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
20080128-571-PB-01	30308242	Pb	1500	ppm	60	EPA 3050B/7420
20080128-571-PB-02	30308243	Pb	1400	ppm	70	EPA 3050B/7420
20080128-571-PB-03	30308244	Pb	1300	ppm	70	EPA 3050B/7420

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

Dave Sandusky, Laboratory Supervisor, Hayward Laboratory

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