

January 12, 2010

Jodi Sinclair

**City of Seattle-Parks & Recreation Engineering & Design**

4209 W. Marginal Way SW

Seattle, WA 98106

**RE: Metals Analysis; NVL Batch # 3000339.00**

Dear Ms. Sinclair,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm), Percent (%) or mg/cm<sup>2</sup> by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft<sup>2</sup>. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m<sup>3</sup>. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,



Nick Ly, Technical Director



# NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103  
Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com



AIHA - IH # 101861  
WA - DOE # C1765

## Analysis Report

### Total Lead (Pb)

Client: City of Seattle Parks & Recreation Engineering & Design  
Address: 4209 W. Marginal Way SW  
Seattle, WA 98106

**Batch #: 3000339.00**

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: N/A

Date Received: 01/11/2010

Samples Received: 2

Samples Analyzed: 2

**Attention: Ms. Jodi Sinclair**

Project Location: Magnuson CC

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
30002138	MAG-001	0.1916	46.0	5600.0	0.5600
30002139	MAG-002	0.2161	41.0	4800.0	0.4800

Sampled by: Client

Analyzed by: Brittany Vogel

Reviewed by: Nick Ly

Date Analyzed: 01/12/2010

Date Issued: 01/12/2010

Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

# NVL Laboratories, Inc.

# CHAIN of CUSTODY SAMPLE LOG

BATCH ID  
**3000339.00**

4708 Aurora Ave N, Seattle, WA 98103  
Tel: 206.547.0100 Emerg.Cell: 206.914.4646  
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

Client City of Seattle Parks & Recreation  
Street 4209 W. Marginal Way SW  
Seattle, WA 98106  
Project Manager Ms. Jodi Sinclair  
Project Location Magnuson C

NVL Batch Number \_\_\_\_\_  
Client Job Number \_\_\_\_\_  
Total Samples \_\_\_\_\_  
Turn Around Time  1-Hr  8-Hrs  2 Days  5 Days  
 2-Hrs  12-Hrs  3 Days  6-10 Day  
 4-Hrs  24-Hrs  4 Days  
Please call for TAT less than 24 Hrs  
Email address jodi.sinclair@seattle.gov  
Cell: (206) 423-0631

Phone: (206) 684-7292 Fax: (206) 233-3949

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
<b>METALS</b>	<b>Det. Limit</b>	<b>Matrix</b>	<b>RCRA Metals</b>	<input type="checkbox"/> All 8	<b>Other Metals</b>
<input checked="" type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input checked="" type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppl)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil			<input type="checkbox"/> Zinc (Zn)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass <input type="checkbox"/> Silica <input type="checkbox"/> Nuisance Dust <input type="checkbox"/> Respirable Dust <input type="checkbox"/> Other (Specify) _____				

Condition of Package:  Good  Damaged (no spillage)  Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		MAG-001	Swim Pool Walks	
2		MAG-002	Laundry room	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Jodi Sinclair	[Signature]	Seattle Parks	1-11-10	1:13
Relinquished by	Jodi Sinclair	[Signature]			
Received by	Jodi Sinclair	[Signature]	neel	1/11/10	1:15
Analyzed by	Brittany Vope	[Signature]	ne	1/12/10	12:15
Results Called by	" "	" "	" "	1/12/10	12:17
Results Faxed by					

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.  
Please email all results to Jodi

# NVL Laboratories, Inc.

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 Tel: 206.547.0100 Emerg. Cell: 206.914.4646  
 1.888.NVL.LABS (685.5227) www.nvllabs.com

# CHAIN OF CUSTODY SAMPLE LOG



Client City of Seattle Parks & Recreation  
 Address 4209 W. Marginal Way SW  
Seattle, WA 98106

NVL Batch Number 3000339.00

Client Job Number N/A

Total Samples 2 Rush Samples \_\_\_\_\_

TAT 24-Hrs Rush TAT \_\_\_\_\_ AH: \_\_\_\_\_

Due Date 01/12/2010 Time 1:15 PM

Project Manager Ms. Jodi Sinclair

Email address jodi.sinclair@seattle.gov

Project Location Magnuson CC

Phone: (206) 684-7292

Fax: (206) 233-3949

Cell: (206) 423-0631

Asbestos Air  PCM (NIOSH 7400)  TEM (NIOSH 7402)  TEM (AHERA)  TEM (EPA Level II)  Other

Asbestos Bulk  PLM (EPA/600/R-93/116)  PLM (EPA Point Count)  PLM (EPA Gravimetry)  TEM BULK

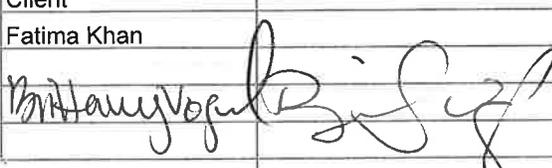
Mold/Fungus  Mold Air  Mold Bulk  Rotometer Calibration

METALS	Inst/Det.Limit	Matrix	RCRA Metals	
<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input checked="" type="checkbox"/> Lead (Pb)	
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Nickel (Ni)
	<input type="checkbox"/> CVAA (ppb)	<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Other _____	<input type="checkbox"/> Mercury (Hg)	
			<input type="checkbox"/> Selenium (Se)	
			<input type="checkbox"/> Silver (Ag)	

Other Types of Analysis  Fiberglass  Nuisance Dust  Other (Specify) \_\_\_\_\_  
 Silica  Respirable Dust

Condition of Package  Good  Damaged (no spillage)  Severe damage (spillage)

	Sample ID	Container ID	Condition
1	30002138	MAG-001	A
2	30002139	MAG-002	A

	Print Below	Sign Below	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				
Received by	Fatima Khan		NVL	1/11/10	1315
Relinquished by			NVL	1/12/10	12:15
Analyzed by					
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.  
 Please E-mail Results