#### BIENNIAL 2022 – PCB AIR & WIPE SAMPLING Franklin Elementary School Building B

September 13, 2022

Prepared For:

Santa Monica-Malibu Unified School District Facilities Improvements Projects 2828 4<sup>th</sup> Street Santa Monica, CA 90405



NV5 – Alta Environmental 3777 Long Beach Blvd, Annex Building Long Beach, CA 90807 Phone: 562.495.5777

SMSD-21-10596

#### **EXECUTIVE SUMMARY**

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental LP, an NV5 Company, (NV5) has prepared this report summarizing the 2022 biennial sampling activities completed for Franklin Elementary School campus, located at 2400 Montana Avenue, Santa Monica, California 90403. The sampling activities were conducted to investigate the potential presence of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within northeast and southwest stairwells of Building B.

Concentrations of PCBs were not detected above laboratory reporting limits in any of the air and wipe samples collected during the 2022 biennial sampling event.

# NV5

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**REPORTED:** September 13, 2022

**PROJECT NO.:** 

SMSD-21-10596

- CLIENT: Santa Monica-Malibu Unified School District Facility Improvements Projects 2828 4<sup>th</sup> Street Santa Monica, California 90405
- ATTENTION: Mr. Carey Upton
- REF: Biennial 2022 PCB Sampling Report Franklin Elementary School 2400 Montana Ave Santa Monica, CA, 90403

#### **1.0 PROJECT BACKGROUND**

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental DBA NV5 (NV5) to conduct biennial air and wipe sampling services for Franklin Elementary School, located at 2400 Montana Ave, Santa Monica, CA 90403. This report presents the findings of our 2022 sampling event.

#### 2.0 PURPOSE OF INSPECTION AND SAMPLING

The objective of the biennial sampling program is to monitor concentration trends of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within select buildings on the Franklin Elementary School campus.

#### **3.0 SCOPE OF SERVICES**

During the course of our investigation, NV5 collected a total of four (4) air samples (including 2 ambient background samples) and a total of five (5) wipe samples (including 1 blank).

#### 4.0 METHODOLOGY

During this sampling event, NV5 conducted air and wipe sampling within the northeast and southwest stairwells of Franklin Elementary School Building B (2 locations). Figures depicting the sample locations are presented in Appendix A.

Following collection, each sample was properly packaged, labeled, and stored within a chilled cooler pending transport to the Eurofins Environment Testing America (Eurofins) located in Tustin, California (wipe samples) and in West Sacramento, California (air samples). The wipe samples were prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and were analyzed for PCBs using EPA Method 8082; The air samples were analyzed for PCBs using EPA Method TO-10A. The following sections provide a brief overview of the methodologies used during the sampling event.

#### 4.1 AIR SAMPLING

Each air sample was collected utilizing a calibrated pump to draw air through laboratory supplied polyurethane foam cartridges at a flow rate of approximately 5 liters per minute, for approximately 24 hours. The air samples were collected at breathing zone height and without the use of pre-filters. Each air sample was analyzed for PCBs utilizing EPA Method TO-10A.

#### 4.2 WIPE SAMPLING

Each wipe sample was collected on laboratory supplied gauze pads (or similar sampling media) in general accordance with the *Standard Wipe Test* procedure described in 40 CFR 761.123. Each wipe sample was prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and analyzed for PCBs using EPA Method 8082A.

#### 5.0 RESULTS

#### 5.1 AIR SAMPLING

Based on the reported laboratory results, concentrations of PCBs were not detected in any of the analyzed air samples.

#### 5.2 WIPE SAMPLING

Based on the reported laboratory results, concentrations of PCBs were not detected in any of the analyzed air samples.

#### 6.0 QUALITY CONTROL

Quality control (QC) field-blank and duplicate samples were collected during this investigation as methods to evaluate sampling and analytical precision. NV5 collected 2 ambient background sample and 1 blank sample during the course of this investigation. Laboratory results of the QC samples were reported within acceptable limits.

As mentioned above, Eurofins analyzed all air and wipe samples during this semi-annual sampling event. Eurofins is accredited by the California Environmental Laboratory Accreditation Program. Based on a review of the laboratory quality control data associated with the sample analysis, the recovery and precision are within the acceptable limits of the laboratory.

#### 7.0 CONCLUSIONS

Based on this information, no significant concentrations of PCBs were detected in the air and surface wipe samples collected and analyzed during the 2022 biennial sampling event.

#### 8.0 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by the District and may not be relied upon by any other person or entity without NV5's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. NV5 cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, NV5 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, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

NV5 will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. NV5 makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

NV5's investigation and the conclusions and recommendations generated as a result reflect a subjective evaluation of limited data and thus may not be representative of all conditions present at the site. If you have any questions, please feel free to call the undersigned at (562) 495-5777.

#### 9.0 SIGNATORY

Respectfully submitted by:

Reviewed by:

NV5

Project Manager

NV5

Reid Shigenc

Project Manager

# Appendix A

Figures



# NV5

# Appendix B

Sample Inventories

CLIENT:SMMUSDPROJECT NO:SMSD-21-10596PROJECT:Franklin Elementary School PCB Sampling - Biennial Event 2022Date:August 2, 2022 - August 3, 2022

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs (μg/100cm²)
В	Southeast Stairwell	Floor	8/4/2022	SE-W1	ND
В	Southeast Stairwell	Floor	8/4/2022	SE-W2	ND
В	Northwest stairwell	Floor	8/4/2022	NW-W3	ND
В	Northwest stairwell	Floor	8/4/2022	NW-W4	ND
В	N/A	Blank	8/4/2022	N/A	ND

Notes:

µg/100cm<sup>2</sup> = microgram per 100 square centimeters

PCB = polychlorinated biphenyl

J = A"J-flag" designation indicates that the reported concentration was detected above the method detection limit, but below the laboratory's practical quantitative limit

CLIENT:	SMMUSD
PROJECT NO:	SMSD-21-10596
PROJECT:	Franklin Elementary School PCB Sampling - Biennial Event 2022
Date:	August 2, 2022 - August 3, 2022

Building	Room Placard ID	Room Description	Sampling Date <sup>[a]</sup>	Sample ID	Total PCBs (μg/m <sup>3</sup> )
В	N/A	Northwest stairwell	8/2/2022	0802-1	ND
Ambient	N/A	N/A	8/2/2022	0802-2	ND
В	N/A	Southeast stairwell	8/3/2022	0803-3	ND
Ambient	N/A	N/A	8/3/2022	0803-4	ND

Notes:

[a] Air samples were collected over a 24-hour period with the lights on, windows and door closed, and ventilation off. Start date giver

Abbreviations:

 $\mu$ g/m<sup>3</sup> = micrograms per cubic meter

ND = compound was analyzed for but not detected above the laboratory reporting limit

NA = Not Applicable

# Appendix C

Laboratory Reports

# 🔅 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

Eurofins Sacramento 880 Riverside Parkway West Sacramento, CA 95605 Tel: (916)373-5600

#### Laboratory Job ID: 320-90790-1

Client Project/Site: Santa Monica Malibu USD / Franklin E.S. Revision: 1

For:

LINKS

Review your project results through

EOL

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

NV5, Inc 3777 Long Beach Blvd, Long Beach, California 90807

Attn: Jonathan Barkman

Matheate

Lee Ann Heathcote, Project Manager II (916)374-4333 LeeAnn.Heathcote@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Authorized for release by: 8/29/2022 3:14:20 PM

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#### **Definitions/Glossary**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S. Job ID: 320-90790-1

#### Qualifiers

Qualifiers		3
Air - GC Sem	ni VOA	
Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	ð
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

#### Job ID: 320-90790-1

#### Laboratory: Eurofins Sacramento

#### Narrative

Job Narrative 320-90790-1

#### Revision

This report was revised on 8/29/2022 to issue data to the method detection limit (MDL) per client request.

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/5/2022 3:04 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.3° C.

#### **Receipt Exceptions**

The following samples were received at the laboratory outside the required temperature criteria, at 14.3° C: 0802-1 (320-90790-1), 0802-2 (320-90790-2), 0803-3 (320-90790-3) and 0803-4 (320-90790-4). The shipment was delayed in that it was scheduled for Saturday Delivery; however, FedEx delivered it to the laboratory on Monday. All ice had melted prior to arrival as only water was remaining in the cooler with the samples.

#### GC Semi VOA

Method TO-10A: Surrogate recovery for the following sample was outside control limits: 0802-1 (320-90790-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **Organic Prep**

Method TO-10: The client provided their own air sampling media for samples, with one extra polyurethane foam (PUF) plug for the batch quality control (QC). The single PUF was used for the method blank (MB), while the air media for laboratory control sample (LCS) / laboratory control sample duplicate (LCSD) was provided by the lab.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary		
Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S.	Job ID: 320-90790-1	2
Client Sample ID: 0802-1	Lab Sample ID: 320-90790-1	
No Detections.		
Client Sample ID: 0802-2	Lab Sample ID: 320-90790-2	4
No Detections.		5
Client Sample ID: 0803-3	Lab Sample ID: 320-90790-3	
No Detections.		
Client Sample ID: 0803-4	Lab Sample ID: 320-90790-4	
No Detections.		8
		9
		13

#### **Client Sample Results**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S. Job ID: 320-90790-1

Matrix: Air

Lab Sample ID: 320-90790-1

#### Client Sample ID: 0802-1 Date Collected: 08/02/22 19:16 Date Received: 08/05/22 15:04 Sample Container: PUF

Method: TO-10A - PCBs i	n Ambient Air								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1221	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1232	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1242	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1248	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1254	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1260	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1262	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
PCB-1268	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56	S1-	60 - 120				08/09/22 07:41	08/10/22 18:14	1
DCB Decachlorobiphenyl	90		60 - 120				08/09/22 07:41	08/10/22 18:14	1

#### Client Sample ID: 0802-2 Date Collected: 08/02/22 19:23 Date Received: 08/05/22 15:04 Sample Container: PUF

Method: TO-10A - PCBs in Ambient Air										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
PCB-1016	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1221	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1232	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1242	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1248	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1254	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1260	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1262	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
PCB-1268	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 18:34	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	89		60 - 120				08/09/22 07:41	08/10/22 18:34	1	
DCB Decachlorobiphenyl	91		60 - 120				08/09/22 07:41	08/10/22 18:34	1	

#### Client Sample ID: 0803-3

Date Collected: 08/03/22 20:16 Date Received: 08/05/22 15:04 Sample Container: PUF

Method: TO-10A - PCBs in Ambient Air									
Result Qualifier	r RL N	DL	Unit	D	Prepared	Analyzed	Dil Fac		
ND	0.10 0.	)44	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	)44	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	)44	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	)44	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	044	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	)44	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	044	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
ND	0.10 0.	044	ug/m3 PUF		08/09/22 07:41	08/10/22 18:54	1		
	Air Result ND ND ND ND ND ND ND ND ND ND	Air     Result     Qualifier     RL     M       ND     0.10     0.0       ND     0.10     0.0	Air     Result     Qualifier     RL     MDL       ND     0.10     0.044       ND     0.10     0.044	Air     Qualifier     RL     MDL     Unit       ND     0.10     0.044     ug/m3 PUF       ND     0.10     0.044     ug/m3 PUF	Air     Result     Qualifier     RL     MDL     Unit     D       ND     0.10     0.044     ug/m3 PUF     D	Air     Result     Qualifier     RL     MDL     Unit     D     Prepared       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41 </td <td>Air     Result     Qualifier     RL     MDL     Unit     p     Prepared     Analyzed       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044&lt;</td>	Air     Result     Qualifier     RL     MDL     Unit     p     Prepared     Analyzed       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044     ug/m3 PUF     08/09/22 07:41     08/10/22 18:54       ND     0.10     0.044<		

**Eurofins Sacramento** 

5 6

#### Lab Sample ID: 320-90790-2 Matrix: Air

Lab Sample ID: 320-90790-3

Matrix: Air

8/29/2022 (Rev. 1)

#### **Client Sample Results**

Job ID: 320-90790-1

Lab Sample ID: 320-90790-3

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S.

#### Client Sample ID: 0803-3 Date Collected: 08/03/22 20:16 Date Received: 08/05/22 15:04 Sample Container: PUF

Method: TO-10A - PCBs in Am Analyte PCB-1268	ND	Qualifier	<b>RL</b> 0.10	<b>MDL</b> 0.044	Unit ug/m3 PUF	D	Prepared 08/09/22 07:41	Analyzed 08/10/22 18:54	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		60 - 120				08/09/22 07:41	08/10/22 18:54	1
DCB Decachlorobiphenyl	95		60 - 120				08/09/22 07:41	08/10/22 18:54	1
Client Sample ID: 0803-4						L	_ab Sample	e ID: 320-90	790-4
Date Collected: 08/03/22 20:24							-	Mat	rix: Air
Date Received: 08/05/22 15:04									
Sample Container: PUF									

Method: TO-10A - PCBs in	Ambient Air								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1221	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1232	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1242	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1248	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1254	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1260	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1262	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
PCB-1268	ND		0.10	0.045	ug/m3 PUF		08/09/22 07:41	08/10/22 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		60 - 120				08/09/22 07:41	08/10/22 19:14	1
DCB Decachlorobiphenyl	96		60 - 120				08/09/22 07:41	08/10/22 19:14	1

#### **Surrogate Summary**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S. Job ID: 320-90790-1

Prep Type: Total/NA

#### Method: TO-10A - PCBs in Ambient Air

Matrix: Air

			Pe
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(60-120)	(60-120)
320-90790-1	0802-1	56 S1-	90
320-90790-2	0802-2	89	91
320-90790-3	0803-3	89	95
320-90790-4	0803-4	86	96
LCS 320-608133/2-B	Lab Control Sample	82	87
LCSD 320-608133/3-B	Lab Control Sample Dup	86	91
MB 320-608133/1-B	Method Blank	89	96

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

#### **QC Sample Results**

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S.

#### Method: TO-10A - PCBs in Ambient Air

#### Lab Sample ID: MB 320-608133/1-B Matrix: Air Analysis Batch: 608659

Analysis Batch: 608659								Prep Batch:	608134
-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1221	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1232	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1242	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1248	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1254	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1260	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1262	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
PCB-1268	ND		0.75	0.33	ug/m3 PUF		08/09/22 07:41	08/10/22 17:14	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		60 - 120				08/09/22 07:41	08/10/22 17:14	1
DCB Decachlorobiphenyl	96		60 - 120				08/09/22 07:41	08/10/22 17:14	1

#### Lab Sample ID: LCS 320-608133/2-B Matrix: Air Analysis Batch: 608659

-	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
PCB-1016		1.83		ug/m3 PUF	_	92	65 - 125		_
PCB-1260	2.00	1.60		ug/m3 PUF		80	65 - 125		

	LCS LC	CS	
Surrogate	%Recovery Q	ualifier	Limits
Tetrachloro-m-xylene	82		60 - 120
DCB Decachlorobiphenyl	87		60 - 120

%Recovery Qualifier

86

91

#### Lab Sample ID: LCSD 320-608133/3-B

#### Matrix: Air Analysis Batch: 608659

Surrogate

Tetrachloro-m-xylene

DCB Decachlorobiphenyl

Analysis Batch: 608659								Prep Ba	itch: 60	)81 <mark>3</mark> 4
		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016		2.00	2.01		ug/m3 PUF	_	101	65 - 125	9	30
PCB-1260		2.00	1.67		ug/m3 PUF		83	65 - 125	4	30
	LCSD LCSD									

Limits 60 - 120

60 - 120

Job ID: 320-90790-1

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

Prep Batch: 608134

<b>Client Sample</b>	ID: Lab	Control	Sample	Dup
----------------------	---------	---------	--------	-----

**Client Sample ID: Lab Control Sample** 

#### **QC Association Summary**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S.

#### Air - GC Semi VOA

#### Pre Prep Batch: 608133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90790-1	0802-1	Total/NA	Air	PUF to Air	
320-90790-2	0802-2	Total/NA	Air	PUF to Air	
320-90790-3	0803-3	Total/NA	Air	PUF to Air	
320-90790-4	0803-4	Total/NA	Air	PUF to Air	
MB 320-608133/1-B	Method Blank	Total/NA	Air	PUF to Air	
LCS 320-608133/2-B	Lab Control Sample	Total/NA	Air	PUF to Air	
LCSD 320-608133/3-B	Lab Control Sample Dup	Total/NA	Air	PUF to Air	

#### Prep Batch: 608134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90790-1	0802-1	Total/NA	Air	TO-10	608133
320-90790-2	0802-2	Total/NA	Air	TO-10	608133
320-90790-3	0803-3	Total/NA	Air	TO-10	608133
320-90790-4	0803-4	Total/NA	Air	TO-10	608133
MB 320-608133/1-B	Method Blank	Total/NA	Air	TO-10	608133
LCS 320-608133/2-B	Lab Control Sample	Total/NA	Air	TO-10	608133
LCSD 320-608133/3-B	Lab Control Sample Dup	Total/NA	Air	TO-10	608133

#### Analysis Batch: 608659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90790-1	0802-1	Total/NA	Air	TO-10A	608134
320-90790-2	0802-2	Total/NA	Air	TO-10A	608134
320-90790-3	0803-3	Total/NA	Air	TO-10A	608134
320-90790-4	0803-4	Total/NA	Air	TO-10A	608134
MB 320-608133/1-B	Method Blank	Total/NA	Air	TO-10A	608134
LCS 320-608133/2-B	Lab Control Sample	Total/NA	Air	TO-10A	608134
LCSD 320-608133/3-B	Lab Control Sample Dup	Total/NA	Air	TO-10A	608134

Job ID: 320-90790-1

#### Lab Chronicle

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S. Job ID: 320-90790-1

Matrix: Air

Matrix: Air

Matrix: Air

10

Lab Sample ID: 320-90790-1

Lab Sample ID: 320-90790-2

Lab Sample ID: 320-90790-3

#### Client Sample ID: 0802-1 Date Collected: 08/02/22 19:16 Date Received: 08/05/22 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					608133	08/09/22 07:38	CCL	EET SAC
Total/NA	Prep	TO-10			7261.1 L	10 mL	608134	08/09/22 07:41	CCL	EET SAC
Total/NA	Analysis	TO-10A		1			608659	08/10/22 18:14	K1D	EET SAC

#### Client Sample ID: 0802-2 Date Collected: 08/02/22 19:23 Date Received: 08/05/22 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					608133	08/09/22 07:38	CCL	EET SAC
Total/NA	Prep	TO-10			7253.9 L	10 mL	608134	08/09/22 07:41	CCL	EET SAC
Total/NA	Analysis	TO-10A		1			608659	08/10/22 18:34	K1D	EET SAC

#### Client Sample ID: 0803-3 Date Collected: 08/03/22 20:16 Date Received: 08/05/22 15:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					608133	08/09/22 07:38	CCL	EET SAC
Total/NA	Prep	TO-10			7519.4 L	10 mL	608134	08/09/22 07:41	CCL	EET SAC
Total/NA	Analysis	TO-10A		1			608659	08/10/22 18:54	K1D	EET SAC

#### Client Sample ID: 0803-4 Date Collected: 08/03/22 20:24 Date Received: 08/05/22 15:04

#### Lab Sample ID: 320-90790-4

Matrix: Air

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					608133	08/09/22 07:38	CCL	EET SAC
Total/NA	Prep	TO-10			7289.8 L	10 mL	608134	08/09/22 07:41	CCL	EET SAC
Total/NA	Analysis	TO-10A		1			608659	08/10/22 19:14	K1D	EET SAC

#### Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

#### Accreditation/Certification Summary

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S.

#### Laboratory: Eurofins Sacramento Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Program **Identification Number Expiration Date** Oregon NELAP 4040 01-29-23 5 6 7 8 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte TO-10A TO-10 Air PCB-1262

#### **Method Summary**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S. Job ID: 320-90790-1

Method	Method Description	Protocol	Laboratory
TO-10A	PCBs in Ambient Air	EPA	EET SAC
PUF to Air	PUF to Air Conversion	None	EET SAC
TO-10	Extraction of Pesticide/PCBs in (Ambient Air)	EPA	EET SAC

#### **Protocol References:**

EPA = US Environmental Protection Agency None = None

#### Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

#### Sample Summary

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / Franklin E.S.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90790-1	0802-1	Air	08/02/22 19:16	08/05/22 15:04
320-90790-2	0802-2	Air	08/02/22 19:23	08/05/22 15:04
320-90790-3	0803-3	Air	08/03/22 20:16	08/05/22 15:04
320-90790-4	0803-4	Air	08/03/22 20:24	08/05/22 15:04

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#### Login Sample Receipt Checklist

#### Client: NV5, Inc

#### Login Number: 90790 List Number: 1 Creator: Her, David A

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Sacramento

# 🛟 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin, CA 92780 Tel: (714)895-5494

#### Laboratory Job ID: 570-105596-1

Client Project/Site: Santa Monica Malibu USD / SMSD-21-10596

For:

LINKS

Review your project results through

EOL

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

NV5, Inc 3777 Long Beach Blvd, Long Beach, California 90807

Attn: Jonathan Barkman

Vik Patel

Authorized for release by: 8/12/2022 2:16:48 PM

Vikas Patel, Project Manager I (714)895-5494 Vikas.Patel@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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#### **Definitions/Glossary**

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

Glossary		3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	Δ
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	3
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

**Eurofins Calscience** 

Job ID: 570-105596-1

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

#### Job ID: 570-105596-1

#### Laboratory: Eurofins Calscience

#### Narrative

Job Narrative 570-105596-1

**Case Narrative** 

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/5/2022 10:08 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

Method 3540C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-255448. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

<b>Detection Sum</b>	mary
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Job	ID:	570	-105	596-1
		• • •		

Client: NV5, Inc	Job ID: 570-105596-1
Project/Site: Santa Monica Malibu USD / SMSD-21-10596	
Client Sample ID: SE-W1	Lab Sample ID: 570-105596-1
No Detections.	
Client Sample ID: SE-W2	Lab Sample ID: 570-105596-2
No Detections.	
Client Sample ID: NW-W3	Lab Sample ID: 570-105596-3
No Detections.	
Client Sample ID: NW-W4	Lab Sample ID: 570-105596-4
No Detections.	
Client Sample ID: W5	Lab Sample ID: 570-105596-5
No Detections.	

5

This Detection Summary does not include radiochemical test results.

#### Client Sample Results

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

Client Sample ID: SE-W1

Analyte

Aroclor-1016

Aroclor-1221

Aroclor-1232

Aroclor-1242

Aroclor-1248

Aroclor-1254

Aroclor-1260

Aroclor-1262

Aroclor-1268

Tetrachloro-m-xylene (Surr)

DCB Decachlorobiphenyl (Surr)

**Client Sample ID: SE-W2** 

Date Collected: 08/04/22 20:50

Date Received: 08/05/22 10:08

Surrogate

Analyte

Aroclor-1016

Aroclor-1221

Aroclor-1232

Aroclor-1242

Aroclor-1248

Aroclor-1254

Aroclor-1260

Aroclor-1262

Aroclor-1268

Surrogate

Date Collected: 08/04/22 20:45

Date Received: 08/05/22 10:08

#### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

ND

ND

ND

ND

87

113

Qualifier

%Recovery

#### Lab Sample ID: 570-105596-1 Matrix: Wipe RL D Dil Fac **Result Qualifier** Unit Prepared Analyzed ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 6 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 ND 08/11/22 03:33 1.0 ug/Sample 08/09/22 10:50 1 ND ug/Sample 08/09/22 10:50 08/11/22 03:33 1.0 1 ND 10 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:33 1 %Recovery Qualifier Limits Prepared Analyzed Dil Fac 24 - 136 08/09/22 10:50 08/11/22 03:33 95 110 37 - 135 08/09/22 10:50 08/11/22 03:33 1 Lab Sample ID: 570-105596-2 Matrix: Wipe **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac 1.0 08/09/22 10:50 ND ug/Sample 08/11/22 03:51 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:51 1 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:51 1 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 03:51 ND 1/22 03:51

24 - 136		08/09/22 10:50	08/11/22 03:51
Limits		Prepared	Analyzed
1.0	ug/Sample	08/09/22 10:50	08/11/22 03:51
1.0	ug/Sample	08/09/22 10:50	08/11/22 03:51
1.0	ug/Sample	08/09/22 10:50	08/11/22 03:51
1.0	ug/Sample	08/09/22 10:50	08/11/22 03:51
1.0	ug/Sample	08/09/22 10:50	08/11/22 03:51

08/09/22 10:50	08/11/22 03:51	1
Lab Sam	ole ID: 570-105596	-3

#### Matrix: Wipe

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

#### Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Aroclor-1016 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 Aroclor-1221 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04.09 Aroclor-1232 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 Aroclor-1242 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 Aroclor-1248 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 1.0 Aroclor-1254 ND ug/Sample 08/09/22 10:50 08/11/22 04:09 Aroclor-1260 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 ND Aroclor-1262 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 Aroclor-1268 ND 1.0 ug/Sample 08/09/22 10:50 08/11/22 04:09 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Tetrachloro-m-xylene (Surr) 24 - 136 08/09/22 10:50 08/11/22 04:09 93 08/09/22 10:50 08/11/22 04:09 DCB Decachlorobiphenyl (Surr) 113 37 - 135

37 - 135

Job ID: 570-105596-1

Date Collected: 08/04/22 21:00 Date Received: 08/05/22 10:08

**Client Sample ID: NW-W3** 

Tetrachloro-m-xylene (Surr)

DCB Decachlorobiphenyl (Surr)

#### **Client Sample Results**

RL

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

Limits

24 - 136

37 - 135

Unit

ug/Sample

ug/Sample

ug/Sample

ug/Sample

ug/Sample

ug/Sample

ug/Sample

ug/Sample

ug/Sample

D

Prepared

Prepared

08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

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08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

08/09/22 10:50 08/11/22 04:27

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

**Client Sample ID: NW-W4** 

Analyte

Aroclor-1016

Aroclor-1221

Aroclor-1232

Aroclor-1242

Aroclor-1248

Aroclor-1254

Aroclor-1260

Aroclor-1262

Aroclor-1268

Surrogate

Tetrachloro-m-xylene (Surr)

**Client Sample ID: W5** 

DCB Decachlorobiphenyl (Surr)

Date Collected: 08/04/22 21:10

Date Received: 08/05/22 10:08

Date Collected: 08/04/22 21:05

Date Received: 08/05/22 10:08

#### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Result Qualifier** 

ND

ND

ND

ND

ND

ND

ND

ND

ND

90

116

Qualifier

%Recovery

## Job ID: 570-105596-1

Matrix: Wipe

Dil Fac

1

1

1

1

1

1

1

1

1

# 6

1 1 Dil Fac

13

#### Lab Sample ID: 570-105596-5 Matrix: Wipe

Analyzed

Lab Sample ID: 570-105596-4

Analyzed

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1221	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1232	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1242	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1248	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1254	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1260	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1262	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Aroclor-1268	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		24 - 136			08/09/22 10:50	08/11/22 04:45	1
DCB Decachlorobiphenyl (Surr)	103		37 - 135			08/09/22 10:50	08/11/22 04:45	1

#### **Eurofins Calscience**

#### **Surrogate Summary**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

#### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography Matrix: Wipe

-			Pe
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-105596-1	SE-W1	95	110
570-105596-2	SE-W2	87	113
570-105596-3	NW-W3	93	113
570-105596-4	NW-W4	90	116
570-105596-5	W5	84	103
LCS 570-255448/2-A	Lab Control Sample	91	109
LCSD 570-255448/3-A	Lab Control Sample Dup	78	109
MB 570-255448/1-A	Method Blank	82	95

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Prep Type: Total/NA

#### **QC Sample Results**

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

#### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

#### Lab Sample ID: MB 570-255448/1-A Matrix: Wipe

Analysis Batch: 255932							Prep Batch:	255448
-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1221	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1232	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1242	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1248	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1254	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1260	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1262	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
Aroclor-1268	ND		1.0	ug/Sample		08/09/22 10:50	08/11/22 03:15	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		24 - 136			08/09/22 10:50	08/11/22 03:15	1
DCB Decachlorobiphenyl (Surr)	95		37 - 135			08/09/22 10:50	08/11/22 03:15	1

#### Lab Sample ID: LCS 570-255448/2-A Matrix: Wipe Analysis Batch: 255932

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aroclor-1016	2.00	2.207		ug/Sample	_	110	46 - 131	
Aroclor-1260	2.00	2.425		ug/Sample		121	40 - 150	

	LCS		
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene (Surr)	91		24 - 136
DCB Decachlorobiphenyl (Surr)	109		37 - 135

#### Lab Sample ID: LCSD 570-255448/3-A Matrix: Wipe

#### Analysis Batch: 255932

			Spike	LCSD	LCSD	
Analyte			Added	Result	Qualifier	Unit
Aroclor-1016			2.00	2.200		ug/S
Aroclor-1260			2.00	2.458		ug/S
	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
Tetrachloro-m-xylene (Surr)	78		24 - 136			
DCB Decachlorobiphenyl (Surr)	109		37 - 135			

### **Client Sample ID: Lab Control Sample Dup**

D %Rec

110

123

ug/Sample

ug/Sample

%Rec

Limits

40 - 150

46 - 131

#### **Eurofins Calscience**

Prep Type: Total/NA

Job ID: 570-105596-1

5

#### 1 1

**Client Sample ID: Method Blank** 

<b>Client Sample ID: L</b>	ab Control Sample
F	Prep Type: Total/NA
I	Prep Batch: 255448

Prep Type: Total/NA

Prep Batch: 255448

RPD

32

36

RPD Limit

0

1

#### **QC Association Summary**

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

#### GC Semi VOA

#### Prep Batch: 255448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105596-1	SE-W1	Total/NA	Wipe	3540C	
570-105596-2	SE-W2	Total/NA	Wipe	3540C	
570-105596-3	NW-W3	Total/NA	Wipe	3540C	
570-105596-4	NW-W4	Total/NA	Wipe	3540C	
570-105596-5	W5	Total/NA	Wipe	3540C	
MB 570-255448/1-A	Method Blank	Total/NA	Wipe	3540C	
LCS 570-255448/2-A	Lab Control Sample	Total/NA	Wipe	3540C	
LCSD 570-255448/3-A	Lab Control Sample Dup	Total/NA	Wipe	3540C	

#### Analysis Batch: 255932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105596-1	SE-W1	Total/NA	Wipe	8082	255448
570-105596-2	SE-W2	Total/NA	Wipe	8082	255448
570-105596-3	NW-W3	Total/NA	Wipe	8082	255448
570-105596-4	NW-W4	Total/NA	Wipe	8082	255448
570-105596-5	W5	Total/NA	Wipe	8082	255448
MB 570-255448/1-A	Method Blank	Total/NA	Wipe	8082	255448
LCS 570-255448/2-A	Lab Control Sample	Total/NA	Wipe	8082	255448
LCSD 570-255448/3-A	Lab Control Sample Dup	Total/NA	Wipe	8082	255448

Job ID: 570-105596-1

Eurofins Calscience

				Lab C	Chronic	e				
Client: NV5, In Project/Site: S	ic anta Monica	Malibu USD /	SMSD-21-	10596				Jo	ob ID: 57	0-105596-1
Client Sam Date Collecte Date Receive	ple ID: SE d: 08/04/22 2 d: 08/05/22 1	- <b>W1</b> 20:45 10:08					La	b Sample I	D: 570- м	105596-1 atrix: Wipe
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA Total/NA	Prep Analysis Instrume	3540C 8082 nt ID: GC58		1	1 Wipe	10 mL	255448 255932	08/09/22 10:50 08/11/22 03:33	USUL UJ3K	EET CAL 4 EET CAL 4
Client Sam Date Collecte Date Receive	ple ID: SE d: 08/04/22 2 d: 08/05/22 1	-W2 20:50 0:08					La	b Sample I	D: 570- M	105596-2 atrix: Wipe
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA Total/NA	Prep Analysis Instrume	3540C 8082 nt ID: GC58		1	1 Wipe	10 mL	255448 255932	08/09/22 10:50 08/11/22 03:51	USUL UJ3K	EET CAL 4 EET CAL 4
Client Sam Date Collecte Date Receive	ple ID: NW d: 08/04/22 2 d: 08/05/22 1	/-W3 21:00 10:08					La	b Sample I	D: 570- M	105596-3 atrix: Wipe
Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA Total/NA	Prep Analysis Instrume	3540C 8082 nt ID: GC58		1	1 Wipe	10 mL	255448 255932	08/09/22 10:50 08/11/22 04:09	USUL UJ3K	EET CAL 4 EET CAL 4
Client Sam Date Collecte Date Receive	ple ID: NW d: 08/04/22 2 d: 08/05/22 1	/-W4 21:05 10:08					La	b Sample I	D: 570- M	105596-4 atrix: Wipe
Pren Type	Batch	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared	Analvet	l ah

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			1 Wipe	10 mL	255448	08/09/22 10:50	USUL	EET CAL 4
Total/NA	Analysis	8082		1			255932	08/11/22 04:27	UJ3K	EET CAL 4
	Instrumen	t ID: GC58								

#### Client Sample ID: W5 Date Collected: 08/04/22 21:10 Date Received: 08/05/22 10:08

Prep Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			1 Wipe	10 mL	255448	08/09/22 10:50	USUL	EET CAL 4
Total/NA	Analysis	8082		1			255932	08/11/22 04:45	UJ3K	EET CAL 4
	Instrumen	t ID: GC58								

#### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Matrix: Wipe

Lab Sample ID: 570-105596-5

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#### Accreditation/Certification Summary

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

#### Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date			
California	Los Angeles County Sanitation	10109	09-30-22			
	Districts					
California	SCAQMD LAP	17LA0919	12-01-22			
California	State	3082	07-31-23			
Oregon	NELAP	4175	02-02-23			
USDA	US Federal Programs	P330-20-00034	02-10-23			
Washington	State	C916-18	10-12-22			

Job ID: 570-105596-1

**Eurofins Calscience** 

#### **Method Summary**

#### Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

**Eurofins Calscience** 

#### Sample Summary

Client: NV5, Inc Project/Site: Santa Monica Malibu USD / SMSD-21-10596

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-105596-1	SE-W1	Wipe	08/04/22 20:45	08/05/22 10:08
570-105596-2	SE-W2	Wipe	08/04/22 20:50	08/05/22 10:08
570-105596-3	NW-W3	Wipe	08/04/22 21:00	08/05/22 10:08
570-105596-4	NW-W4	Wipe	08/04/22 21:05	08/05/22 10:08
570-105596-5	W5	Wipe	08/04/22 21:10	08/05/22 10:08

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8/12/2022

#### Login Sample Receipt Checklist

#### Client: NV5, Inc

#### Login Number: 105596 List Number: 1 Creator: Vitente, Precy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

#### Job Number: 570-105596-1

List Source: Eurofins Calscience

