

P.O. Box 1018 • Kamuela, Hawaii 96743 • Tel: (808) 494-0365 • Website: www.lehuaenvironmental.com

October 26, 2022

California Institute of Technology (Caltech) 1200 E. California Blvd. Pasadena, California 91125

Subject: 3RD PARTY LEAD ENVIRONMENTAL AIR MONITORING REPORT

CALTECH SUBMILLIMETER OBSERVATORY DECOMMISSIONING PROJECT

MAUNA KEA, BIG ISLAND, HAWAII

The purpose of this letter report is to document the activities and findings from Lehua Environmental Inc.'s (LEI's) 3rd party lead environmental air monitoring activities completed during the lead paint disturbance activities at the Caltech Submillimeter Observatory (CSO) located on Mauna Kea Access Road in Mauna Kea, Big Island, Hawaii (Subject Site). The air monitoring activities occurred from September 26- 30, 2022 at the Subject Site.

Background

Lead-Containing Paint (LCP) and Lead-Based Paint (LBP) were identified throughout the Subject Site at various concentrations and conditions. Unitek Contracting Group (Contractor) was contracted to furnish labor, equipment and materials to remove all identified poor condition (loose and flaking) LCP and LBP from the Subject Site.

Abatement Activities

The Contractor prepared the work area at the Subject Site prior to lead paint removal. Perimeter barriers and posted applicable lead signage were used during all lead paint disturbance activities. The Contractor placed 6-mil polyethylene sheeting on the ground of the work area. The Contractor utilized half-face air purifying respirators, full body disposable Tyvek suits, rubber gloves and boots during abatement activities that disturbed LBP and LCP.

The Contractor performed lead paint disturbance activities that involved scraping and removing poor condition (loose and flaky) paint throughout the interior and exterior of the CSO. Daily field activities are documented in the daily field reports included in Attachment II.

Methodology

Visual Clearances

LEI's State of Hawaii certified lead paint inspector conducted visual observations during and at the completion of each day's lead paint disturbance work. LEI observed the work area and work area perimeters during all lead paint disturbance work by the Contractor. All observed field conditions were documented in the daily field reports included in Attachment II.

Air Monitoring

LEI conducted lead environmental air monitoring which included outside work area samples during the lead paint disturbance work at the Subject Site. Four (4) outside work area samples were placed upwind and downwind of the work area perimeters during each day's lead paint disturbance work. Air samples were collected using low volume pumps set at 2.0 liters per minute (L/min).

All samples were properly logged and recorded following strict chain of custody procedure and submitted to Hawaii Analytical located in Honolulu, Hawaii for total lead analysis in accordance with NIOSH Method 7082.



Findings

Visual Clearances

LEI personnel confirmed that lead work areas were free of lead paint chips and/or debris.

Air Monitoring

Laboratory results indicated that all analyzed environmental area air samples collected during lead disturbance activities were below the Occupational Safety and Health Administration (OSHA) action level of 30 micrograms of lead per cubic meter of air. A copy of the laboratory results is provided in Attachment I.

Limitations

LEI's findings and conclusions contained herein are professional opinions based solely upon visual observations, laboratory data, and information provided to LEI at the time this study. Opinions stated in this report do not apply to changes that may have occurred after the services were performed.

LEI has performed specified services for this project with the degree of care, skill and diligence ordinarily exercised by professional consultants performing the same or similar services. No other warranty, guarantee, or representation, expressed or implied, is included or intended; unless otherwise specifically agreed to in writing by both LEI and LEI's Client.

This report is intended for the sole use of LEI's Client, exclusively for the project site indicated. LEI's Client may use and release this report, including making and retaining copies, provided such use is limited to the particular site and project for which this report is provided. However, the services performed may not be appropriate for satisfying the needs of other users. Release of this report to third-parties will be at the sole risk of Client and/or said user, and LEI shall not be liable for any claims or damages resulting from or connected with such release or any third party's use or reuse of this report.

Thank you for allowing us to serve you. Please contact us at (808)494-0365 with any questions.

Respectfully,

LEHUA ENVIRONMENTAL INC.

Jason Kline

State of Hawaii Lead Risk Assessor Certification # PB-09604295, Expires 8/23/2023

Attachment I: Laboratory Reports Attachment II: Daily Field Reports

Attachment I: Laboratory Results



Hawaii Analytical Laboratory ANALYTICAL REPORT

Tuesday, October 4, 2022

Mr. Kama Kobayashi Lehua Environmental Inc. P.O. Box 1018

Kamuela HI 96743

Phone Number: (808)494-0365

Facsimile:

Email: lehuaenvironmental@gmail.com

Lab Job No: 202209396 **Date Submitted:** 10/3/2022

Project Name: CSO Decommissioning, 9/26/22-9/30/22

	Air - Lead								
Sample No.	NIOSH Method: 7082m LEAD by F. Your Sample ID / Description	AAS Results	Units	Date Analyzed					
202277248 Comments	092622 L1	< 14	ug/m3	10/4/2022					
202277249 Comments	092622 L2	< 14	ug/m3	10/4/2022					
202277250 Comments	092622 L3	< 14	ug/m3	10/4/2022					
202277251 Comments	092622 L4	< 14	ug/m3	10/4/2022					
202277253 Comments	092722 L1	< 5.6	ug/m3	10/4/2022					
202277254 Comments	092722 L2	< 5.6	ug/m3	10/4/2022					
202277255 Comments	092722 L3	< 5.6	ug/m3	10/4/2022					
202277256 Comments	092722 L4	< 5.6	ug/m3	10/4/2022					
202277258 Comments	092822 L1	< 7.9	ug/m3	10/4/2022					

Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on www.aihaaccreditedlabs.org, in accordance with the recognized ISO/IEC 17025:2005. AIHA LAP, LLC is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 - 20181015

Mr. Kama Kobayashi Lehua Environmental Inc.

P.O. Box 1018

Phone Number: (808)494-0365

Facsimile:

Kamuela HI 96743 Email: lehuaenvironmental@gmail.com

Lab Job No: 202209396 **Date Submitted:** 10/3/2022

Project Name: CSO Decommissioning, 9/26/22-9/30/22

Air - Lead										
NIOSH Method: 7082m LEAD by FAAS Date										
Sample No.	Your Sample ID / Description	Results	Units	Analyzed						
202277259 Comments	092822 L2	< 7.9	ug/m3	10/4/2022						
202277260 Comments	092822 L3	< 7.9	ug/m3	10/4/2022						
202277261 Comments	092822 L4	< 7.9	ug/m3	10/4/2022						
202277263 Comments	092922 L1	< 7.9	ug/m3	10/4/2022						
202277264 Comments	092922 L2	< 7.9	ug/m3	10/4/2022						
202277265 Comments	092922 L3	< 7.9	ug/m3	10/4/2022						
202277266 Comments	092922 L4	< 7.9	ug/m3	10/4/2022						
202277268 Comments	093022 L1	< 28	ug/m3	10/4/2022						
202277269 Comments	093022 L2	< 28	ug/m3	10/4/2022						
202277270 Comments	093022 L3	< 28	ug/m3	10/4/2022						
202277271 Comments	093022 L4	< 28	ug/m3	10/4/2022						

Mr. Kama Kobayashi Lehua Environmental Inc.

P.O. Box 1018

Kamuela HI 96743 Email: lehuaenvironmental@gmail.com

Phone Number:

Facsimile:

(808)494-0365

Lab Job No: 202209396 **Date Submitted:** 10/3/2022

Project Name: CSO Decommissioning, 9/26/22-9/30/22

All Quality Control data are acceptable unless otherwise noted.

MRL for lead air is 5ug. MRL for lead wipe is 10ug.

MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments

The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions

- > This testing result is greater than the numerical value listed.
- < This testing result is less than the numerical value listed.

= Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation. MRL = Method Reporting Limit.

Anne Antin

Quality Control Manager

Anne Kutin B

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(· · · · · ·	HAWAII		Report To*		Kama Kobayas	hi	Invoice To*	: Kan	nalana Kobayashi	
	ANALYTICAL LABORATORY	, LLC	Company	: Leh	nua Environment		Company	Company : Lehua Environmenta		
	/ XX	~	Address*		PO BOX 1018	3	Address*	: PO BOX 1018		
				Ka	ımuela, Hawaii 9	6743		Kamı	uela, Hawaii 96743	
	0 11 00		Phone / Cell No.*	:	808-494-0365		Phone / Cell No.*			
Honolulu, H			Report results to	:	K. Kobayashi		Purchase Order No.	i		
	i-0422 - Fax: 808-7 zehawaii.com	35-0047	via email or fax	: Jkline.geo@gma	il.com,		Email Invoice To	: <u>lehuaenv</u>	ironmental@gmail.com	
Need Res	ults By*:			lehuaenvironmer						
The state of the s	ing Days (WD)								8	
☐ 4 WD ☑ 3 WD		Client	Project No.:	Site/Pr	oject Name:				Sampled By & Certif. #:	
2 WD						CSO Deco	mmissioning		Nicole Garaganza-Tengan	
24 hour		Specia	al Instructions:			₹8	PLM POSITIVE STOP?	Verbal results?	Lab Report No.:	
4 hours							+ stop / SAMPLE + stop / LAYER		202209396	
1-2 hou	ırs		Do Not Analyze Bla	Date Sampled*	Collection	Sample Area		Method		
Sample ID	Sa	mple De	escription*	(mm/dd/yy)	Medium	/ Air Volume	Analysis Requested*	Reference	Lab Sample(s) No.:	
1		09262	22 L1	9/26/2022	Cassette	360 L	Lead air		202277248	
2		09262	22 L2	9/26/2022	Cassette	360 L	Lead air		202277249	
3		09262	22 L3	9/26/2022	Cassette	360 L	Lead air	-	202277250	
4		09262	22 L4	9/26/2022	Cassette	360 L	Lead air		202277251	
5		092622	BLANK	9/26/2022	Cassette	BLANK	BLANK		202277252	
6		09272	22 L1	9/27/2022	Cassette	900 L	Lead air		202277253	
7		09272	22 L2	9/27/2022	Cassette	900 L	Lead air		202277254	
8		09272	22 L3	9/27/2022	Cassette	900 L	Lead air		202277255	
9		09272	22 L4	9/27/2022	Cassette	900 L	Lead air		202277256	
0		092722	BLANK	9/27/2022	Cassette	BLANK	BLANK	8	202277257	
1		09282	22 L1	9/28/2022	Cassette	630 L	Lead air		202277258	
2		09282	22 L2	9/28/2022	Cassette	630 L	Lead air		202277259	
3		09282	22 L3	9/28/2022	Cassette	630 L	Lead air		202277260	
4		09282	22 L4	9/28/2022	Cassette	630 L	Lead air		202277261	
5		092822	BLANK	9/28/2022	Cassette	BLANK	BLANK		202277262	

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(HAWAII		Report To*	:		Kama Kobayas	shi		Invoice To*	: Ka	malana Kobayashi	
	LABORATORY	, LLC	Company		Leh	nua Environment	tal Inc.		Company	: Lehua Environmental Inc.		
		~	Address*			PO BOX 1018	3		Address*	:PO BOX 1018		
					Ka	amuela, Hawaii 9	6743			Kam	uela, Hawaii 96743	
2015 Uardin	ng Avenue, Suite 30	0	Phone / Cell No.*	:		808-494-0365			Phone / Cell No.*	:		
Honolulu, H	1 96816		Report results to	<u> </u>		K. Kobayashi	Í		Purchase Order No.	:		
	5-0422 - Fax: 808-7: yzehawaii.com	35-0047	via email or fax	: Jkline.ge	o@gma	il.com,			Email Invoice To	: lehuaenv	vironmental@gmail.com	
Need Res	ults By*:					ntal@gmail.com	1					
	ing Days (WD)											
☐ 4 WD ☑ 3 WD		Client I	Project No.:		Site/Pr	oject Name:					Sampled By & Certif. #:	
2 WD							CS	O Decon	nmissioning		Nicole Garaganza-Tengan	
24 hou		Specia	I Instructions:						PLM POSITIVE STOP?	Verbal results?	Lab Report No.:	
4 hours									+ stop / SAMPLE		202200200	
1-2 hou	ırs		Do Not Analyze Bla						+ stop / LAYER		202209396	
Sample ID	Sa	mple De	escription*	Date Sar (mm/de		Collection Medium	Sample / Air Vo		Analysis Requested*	Method Reference	Lab Sample(s) No.:	
6		09292	22 L1	9/29/2	022	Cassette	630	L	Lead air		202277263	
7		09292	22 L2	9/29/2	022	Cassette	630	L	Lead air		202277264	
8		09292	22 L3	9/29/2	022	Cassette	630	L	Lead air	t a 2022	202277265 202277266	
9		09292	22 L4	9/29/2	022	Cassette	630	L	Lead air			
0	()92922	BLANK	9/29/2	022	Cassette	BLAN	١K	BLANK		202277267	
1		09302	22 L1	9/30/2	022	Cassette	180	L	Lead air		202277268	
2		09302	22 L2	9/30/2	022	Cassette	180	L	Lead air		202277269	
3		09302	22 L3	9/30/2	022	Cassette	180	L	Lead air	. 4	202277270	
4		09302	22 L4	9/30/2	022	Cassette	180	L	Lead air		202277271	
5		93022 [n er an master state de se state en comment	9/30/2	022	Cassette	BLAN	1K	BLANK		202277272	
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	Nicole	Garaga	anza-Tengan			9/30/2022 12:0	00		Breanna Perez	1	0-03-22A10:16 RCVD	
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Attachment II: Daily Field Reports

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Project: CSO	Decommissioni	ng					Page: Date:		 1	-
			Scł	hedule	d Activ	ity				
Building(s):	CSO						Floor(s)	: 4		
Room(s):	N/A									
Material to be	disturbed:	N/A								

Time	Description	
11:00 am	Arrived on site. Met with Pedro from AECOM, as well as a few others we through a safety briefing of the observatory and surrounding areas. After the briefing we all walked inside throughout the observatory to disc	
1:45 pm	I calibrated 4 pumps for lead background monitoring and set up pumps t began to set up containment inside room 204, to prep for mold removal. unnecessary tools or equipment left inside the rooms.	They also removed an
3:15 pm	Unitek only set up for work areas for most of the day and will begin loose starting tomorrow. I collected and calibrated pumps.	e and flaky paint removal
3:30 pm	Left job site.	
LEI Staff:	Nicole Garaganza-Tengan	Date: 09/26/22

Page	1 of	· 1
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Project No.:			Date: 09/26/22					
Client:			S	Sampled By: Nicole Garaganza-Tengan				
Project Site: C	cso							
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092622 L1	В	1:45 pm	3:15 pm	4	4	4	90	360 L
•	Sample Location: 1st floor pedestal platform							
Analy (select o			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092622 L2	В	1:45 pm	3:15 pm	4	4	4	90	360 L
Sample Location: Bottom of stair case								
Analy (select o			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092622 L3	В	1:45 pm	3:15 pm	4	4	4	90	360 L
Sample Location Second floor, in		4						
Analy (select o			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092622 L4	В	1:45 pm	3:15 pm	4	4	4	90	360 L
Sample Location Third floor stair								
Analy	te:		Asbe	estos	Lead C	Other:		

^{*}Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank

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		Page:	1	of	1
Project:	CSO Decommissioning	Date:	09/27/2	22	

		Scheduled Activity		
Building(s):	CSO		Floor(s):	4
Room(s):	N/A			
Material to be	disturbed:	Loose and flaky lead paint		

Time	Description				
7:30 am	Arrived on site. I calibrated 4 pumps for lead air monitoring and set up around the work area. Today Unitek will be removal loose and flaky paint from the interior walls of the observatory. They'll being on the third floor and work their way down. Poly plastic is laid on the ground and over the railings to contain all paint chips within the work area. Workers also will be fulling suited in tyvek and half face respirators.				
9:30 am	Unitek finished with scrapping loose and flaky paint from the fourth and third floor sheetrock walls of the observatory. Work areas has been cleaned and visual clearance has been done. They'll began removing loose and flaky paint in the stairwell.				
11:30 am	Unitek finished scrapping loose and flaky paint of the sheetrock walls in the stairwell. All paint chips were cleaned. Visual clearance completed and passed.				
2:00 pm	Unitek continued on and finished removing loose and flaky paint from the sheetrock walls.	e second and first floor platform			
3:00 pm	Unitek finished for the day. All work areas have been cleaned up. I collec	cted and calibrated the pumps.			
3:30 pm	Left job site.				
LEI Staff: N	licole Garaganza-Tengan	Date: 09/27/22			

Page	1 of	· 1
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Project No.:				Date:	09/27/22			
Client:			S	ampled By:	Nicole Gara	aganza-Teng	an	
Project Site: C	cso							
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092722 L1	OWA	7:30 am	3:00 pm	2	2	2	450	900 L
Sample Location: 1st floor pedestal platform								
Analy (select of			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092722 L2	OWA	7:30 am	3:00 pm	2	2	2	450	900 L
Sample Location	1:							
Stair case secon		.						
Analy (select or			Asbe	stos 🔘	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092722 L3	IWA	7:30 am	3:00 pm	2	2	2	450	900 L
Sample Location 3rd floor platforn								
Analy (select of			Asbe	stos 🔘	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092722 L4	OWA	7:30 am	3:00 pm	2	2	2	450	900 L
Sample Location								
Third floor stairc								
Analy (select of			O Asbe	stos	Lead C) Other:		

^{*}Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank

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Project:	CSO Decommissioning		Page: Date:	09/28/22	_	<u>'</u>
		Scheduled Activity				

		Scheduled Activity	
Building(s):	CSO	Floor(s): 4	
Room(s):	N/A		
Material to be	disturbed:	Mold canes ceiling tiles, loose and flaky paint.	

Time	Description				
7:00 am	Arrived on site. I calibrated 4 pumps for lead air monitoring and set up around the observatory. Unitek will start the day off with removing any mold material in room 204. Room 204 had previously been set up with containment and workers are suited with tyvek suits and respirators.				
9:00 am	Unitek finished removing mold from room 204. All loose and flaky paint las well. I did a visual clearance for the mold, then Unitek did a final clear breaking down the containment. After the containment was taken down, Everything looked good. Unitek now is starting to remove mold from roobeen set up.	ning of the entire room before I did one last visual clearance.			
11:00 am	Unitek removed mold and cancer ceiling tiles from room 105. I did a visi looked good. Unitek vacuuming throughout observatory.	ual clearance and everything			
12:30 pm	Unitek finished for the day. All work areas have been cleaned up of exis collected and calibrated pumps. They'll be headed down to their storage				
12:45 pm	Left job site.				
LEI Staff:	Nicole Garaganza-Tengan	Date: 10/28/22			

Page	1 of	· 1
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Project No.:				Date:	09/28/22			
Client:			S	ampled By:	Nicole Gara	aganza-Teng	jan	
Project Site: C	CSO							
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092822 L1	OWA	7:15 am	12:30 pm	2	2	2	315	630 L
Sample Location: 1st floor pedestal platform area								
Analy (select o			Asbe	stos 🔘	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092822 L2	IWA	7:15 am	12:30 pm	2	2	2	315	630 L
Sample Location Room 105	1:							
Analy (select o			Asbe	stos 🔘	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092822 L3	IWA	7:15 am	12:30 pm	2	2	2	315	630 L
Sample Location Room 204	1:							
Analy (select o			Asbe	stos 🔘	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092822 L4	OWA	7:15 am	12:30 pm	2	2	2	315	630 L
Sample Location In stairwell	1:							
Analy			OAsbe	stos	Lead C	Other:		

^{*}Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank

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	enua	Envir	nmen	tai i	Inc.

		Page: <u>1</u> of _	1
Project:	CSO Decommissioning	Date: 09/29/22	

		Scheduled Activity
Building(s):	CSO	Floor(s): 4
Room(s):	N/A	
Material to be disturbed:		Loose and flaky paint

Time	Description	
7:15 am	Arrived on site. At 7:45am I calibrated 4 pumps for lead air monitoring ar Unitek to continue with removing loose and flaky paint throughout observated outside. One worker removing loose and flaky paint from walls a observatory. All debris will be vacuumed as they are removed. Workers will be wearing tyveks and half face respirators.	vatory as well as the sheds
10:00 am	Unitek had scrubbed the red poles located outside the observatory. Plas surrounding the poles. A containment was also used when working on ea to contain any paint chips from spreading around the outside environment and a visual inspection was done.	ach pole to keep the wind out and
11:30 am	Unitek walking through observatory spot checking for any other areas the removal. Also going around and cleaning up preexisting debris throughout the control of the contro	at need more loose and flaky ut observatory.
1:00 pm	Unitek finished for the day. They'll be heading back down to their storage All work areas from today have been cleaned up. Containment from roor I collected and calibrated pumps.	e unit in Hilo for the rest of the day. n 105 has also been taken down.
1:15 pm	Left job site.	
LEI Staff:	Nicole Garaganza-Tengan	Date: 09/29/22

Page	1 of	1
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Project No.:				Date:	09/29/22			
Client:	nt:		S	ampled By:	Nicole Gara	aganza-Teng	jan	
Project Site: CSO								
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092922 L1	OWA	7:45 pm	1:00 pm	2	2	2	315	630 L
Sample Location: 1st floor pedestal	platform							
Analyte (select one)			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092922 L2	OWA	7:45 am	1:00 pm	2	2	2	315	630 L
Sample Location: 2nd floor platform								
Analyte (select one)			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092922 L3	OWA	7:45 am	1:00 pm	2	2	2	315	630 L
Sample Location: outside observato	ry							
Analyte (select one)			Asbe	stos	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
092922 L4	OWA	7:45 am	1:00 pm	2	2	2	315	630 L
Sample Location: outside observato								
Analyte		Asbe	stos	Lead C	Other:			

^{*}Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank

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		Page:	1	of	1
Project:	CSO Decommissioning	Date:	09/30/2	22	

		Scheduled Activity
Building(s):	CSO	Floor(s): 4
Room(s):	N/A	
Material to be	disturbed:	Loose and flaky

Time	Description	
7:00 am	Arrived on site. I calibrated 4 pumps for lead air monitoring and set up ar will be doing a walk through of the observatory to do a final cleaning.	ound the work area. Today Unitek
8:00 am	Unitek finished with walk through. I did a final visual clearance of all work observatory. All work areas pass. I collected and calibrated pumps.	areas throughout the
10:00 am	Left job site.	
LEI Staff: 1	Nicole Garaganza-Tengan	Date: 09/30/22

Page	1 of	1
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Project No.:		Date:			09/30/22				
Client:			S	ampled By:	Nicole Gara	cole Garaganza-Tengan			
Project Site:	CSO								
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)	
093022 L1 OWA 7:15 am		8:00 am	4	4	4	45	180 L		
•	Sample Location: 1st floor pedestal platform								
Anal (select	•		Asbe	stos 🔘	Lead C	Other:			
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)	
093022 L2	OWA	7:15 am	8:00 am	4	4	4	45	180 L	
Sample Location: 1st floor pedestal platform									
	•								
Anal (select	•		Asbe	stos 🔘	Lead C) Other:			
C LID	Ī			Initial Flow	Final Flow	Avg. Flor	Total Time		
Sample ID	Type*	Start Time	Stop Time	(LPM)	(LPM)	(LPM)	(min.)	Total Vol. (liters)	
093022 L3		Start Time 7:15 am	8:00 am						
	OWA			(LPM)	(LPM)	(LPM)	(min.)	(liters)	
093022 L3	OWA on: orm yte:			(LPM) 4	(LPM)	(LPM)	(min.)	(liters)	
093022 L3 Sample Location 2nd floor platfo Anal	OWA on: orm yte:		8:00 am	(LPM) 4	(LPM) 4	(LPM) 4	(min.)	(liters)	
093022 L3 Sample Location 2nd floor platfo Anal (select	OWA on: rm yte: one) Type*	7:15 am	8:00 am	(LPM) 4 stos Initial Flow	(LPM) 4 Lead Final Flow	(LPM) 4 Other:	(min.) 45 Total Time	(liters) 180 L Total Vol.	
093022 L3 Sample Location 2nd floor platfo Anal (select	OWA on: rm yte: one) Type* OWA	7:15 am Start Time	8:00 am Asbe Stop Time	(LPM) 4 stos Initial Flow (LPM)	(LPM) 4 Lead Final Flow (LPM)	(LPM) 4 Other: Avg. Flor (LPM)	(min.) 45 Total Time (min.)	(liters) 180 L Total Vol. (liters)	
093022 L3 Sample Location 2nd floor platfo Anal (select) Sample ID 093022 L4	OWA on: rm yte: one) Type* OWA	7:15 am Start Time	8:00 am Asbe Stop Time	(LPM) 4 stos Initial Flow (LPM)	(LPM) 4 Lead Final Flow (LPM)	(LPM) 4 Other: Avg. Flor (LPM)	(min.) 45 Total Time (min.)	(liters) 180 L Total Vol. (liters)	

^{*}Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank