ERIO CONSULTING MARY J. ERIO, PE, CIH, CSP 3927 KENWOOD KANSAS CITY, MO 64110 (816) 753-9030

November 15, 2003

Mr. David L. Hartshorn, CIH, CSP, CHMM Property Management Division U.S. General Services Administration 1500 E. Bannister Road, Room 2101 Kansas City, MO 64131-3088

RE: Sampling for Lead and Mercury dust Goodfellow Child Care Center Federal Center St. Louis, MO

Dear Dave:

Attached is the report for the lead and mercury sampling at the above facility. The remediation plan and cost estimate will be included in a separate report, after the area of remediation is estimated.

If you have any questions concerning this report, please contact me.

Sincerely,

Mary J. Erio

Report follows



TABLE OF CONTENTS

- I. INTRODUCTION
- II. SUMMARY OF THE SAMPLING
- III. RESULTS
- IV. DISCUSSION
- V. CONCLUSIONS AND RECOMMENDATIONS

ATTACHMENT – LABORATORY ANALYSIS REPORT

INTRODUCTION

From October 2 to 3, 2003, Mary J. Erio, PE, CIH, CSP (the investigator) collected samples for lead and mercury at the Child Care Center, located at 4300 Goodfellow, Building 104E, Federal Center, St. Louis, MO. The sampling was requested by the U.S. General Services Administration (GSA) is response to potential health concerns following the discovery of peeling paint above the drop ceiling within the facility.

The Child Care Center comprises approximately 8,000 square feet and cared for 34 children at the time of the investigation. The sampling took place while the facility was closed for the night, after 5:30 p.m. The investigation was coordinated with Ms. Barbara Daniels, Regional Child Care Coordinator for GSA, along with building staff.

According to GSA, a contractor discovered peeling paint above the drop ceiling when the ceiling panel was raised, causing paint chips to fall on the floor. Analysis of the paint chips showed both lead and mercury. Building management has been advised to raise ceiling tiles only when using appropriate safety methods. Direct reading instruments have shown no immediate health hazards from mercury vapor or particulates. However, chemical samples were requested to evaluate any risk from paint dust that might have escaped past the ceiling tiles into the childcare areas. The peeling paint is located on the decking above the drop ceiling. The space above the ceiling tiles serves as a return air plenum. No lead-based or mercury-based painted surfaces have been identified within the occupied spaces.

Specifically, the following items were requested:

- 1. Air samples for Lead to confirm that there's no airborne hazard. Determine if concentrations detected from this sampling effort are acceptable or unacceptable for a day care facility.
- 2. Collect carpet vacuum samples for Lead and Mercury to determine if he paint has gotten into the carpet. Determine if concentrations detected from this sampling effort are acceptable or unacceptable for a day care facility.
- 3. Collect wipe samples from surfaces in the day care center occupied by children, which are not typically cleaned to see if there's a settling-out of Lead or Mercury. Determine if concentrations detected from this sampling effort are acceptable or unacceptable for a day care facility.
- 4. Develop a scope and cost estimate to (a) clean the upper surface of the ceiling tiles and (b) control future peeling of the paint from the underside of the roof decking.
- 5. Provide recommendations for interim control measures, if needed, to ensure the safety of the day care occupants until remediation can be accomplished

II. SUMMARY OF SAMPLING

The investigator arrived at the Child Care Center shortly before closing on Thursday, October 2, 2003 and toured the facility. At least one sample type was collected in each room or hallway commonly occupied by children. Sampling began after closure, and after the arrival of the cleaning crew.

The following is a summary of the samples and sample methods:

Lead Wipe Samples

Wipe samples are important in assessing the potential contact a child might have with a contaminated surface. A total of four lead wipe samples were collected from the floor tiles in three childcare rooms and the hallway. These are high occupancy areas. The exact locations can be found in the Results section. The cleaning crew appeared to be cleaning horizontal, hard surfaces, where dust could settle. Therefore, the samples were collected prior to daily cleaning.

The wipe samples were collected according to the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (June, 1995), Appendix 13.1 "Wipe Sampling for Settled Lead Contaminated Dust". Environmental Health Laboratory provided the wipe sample media, "Ghost Wipes". They meet the requirements of HUD and ASTM E 1792 "Standard Specification for Wipe Sampling Materials for Lead in Surface Dust". Samples were collected using disposable one-foot square templates and disposable, powderless latex gloves, changed with each sample.

Each wipe sample was placed in a Nasco Whirl-Pak, supplied by Environmental Health Laboratory, and labeled. One media blank, Wipe 1, was removed from the package, folded, and placed in the Whirl-Pak, but no sample was collected.

Mercury Wipe Samples

A total of two mercury wipe samples were collected in two childcare rooms. The mercury wipe was collected adjacent to the lead wipe. The mercury wipe sample collection method was equivalent to the lead wipe method, except for the sample media. Environmental Health Laboratory provided Kim-wipes and distilled water to moisten each wipe. One media blank, Wipe 8, was removed from the package, wetted with distilled water, folded, and placed in the Whirl-Pak, but no sample was collected.

Lead and Mercury Dust Samples

A total of four samples were collected and analyzed for lead dust in carpet and rugs in three child care rooms and the hallway. Two of these samples were also analyzed for mercury. The exact locations can be found in the Results section. In general, the Child Care Center was not carpeted expect for the loft areas in some child care rooms, and a

bench along the East Wall. Rugs are located in each room, and a mat is located at the entrance of each room. The mats and rugs are vacuumed daily during mid-afternoon. The night crew only sweeps the mats. The samples were collected prior to this sweeping. One sample, Dust 2 was also collected from the Purple Room loft carpet, near water damaged ceiling tiles and where paint was peeling above the ceiling tiles.

The samples were collected according to recommendations from Environmental Health Laboratory, and in a manner similar to CarpetChek dust collection methods. The laboratory also supplied the 0.8-micron mixed cellulose ester membrane filter (MCEF) cassettes. A one-foot square disposable template was used with each sample.

To collect a carpet dust sample, a short, disposable "tygon" plastic tube was attached to the inlet end of the cassette. A variable volume EMS pump was set to a flow rate of 15 liters per minute. The investigator collected dust into the cassette by moving the tubing in an "S" shape motion in both directions along the carpet fibers. Following sample collection, the cassette was closed and labeled. One media blank, Dust 5, was also analyzed for lead and mercury.

Lead in Air

Three air samples were collected and analyzed for airborne lead dust. The locations are listed in the Results section. The samples were collected in areas possibly affected by supply air dust, beneath supply air grills and areas with previous water damage. The ventilation system was allowed to operate all night.

The area samples were collected according to a modified NIOSH Method No. 7082, Airborne Particulates for Lead. Since the samples were collected in a childcare center, a longer sampling period was used than for a workplace. Environmental Health Laboratory supplied the 0.8-micron MCEF cassettes. The pumps, two Sensidyne BDX II and one EMS, were calibrated to 3 liters per minute, plugged into electrical outlets, and were allowed to run all night, or approximately 11 hours. The investigator collected the samples prior to the arrival of children on November 3, 2003.

The media blank submitted with the dust samples, Dust 5, also serves as a media blank for the air samples.

All samples were sent Environmental Health Laboratory, an accredited Industrial Hygiene laboratory located in Cromwell, Connecticut.

III. RESULTS

The sampling results are summarized in the following tables. Additional information, including the Chain of Custody, can be found in the Attachments section.

Sample No.	Location	Wipe Area (sq ft)	μg/sq ft
Wipe 2	Purple Room, floor tile beneath stained ceiling tiles, 6 feet from east wall, 17 feet from south wall	1	< 2.5
Wipe 4	Blue Room, floor tile, center	1	< 2.5
Wipe 5	South Hall, floor tile near mats	1	< 2.5
Wipe 7	Yellow Room, floor tile near cribs, beneath air vent	1	< 2.5
EPA and HUD g	uideline for lead dust on floor		40

Lead Wipes, October 2, 2003

Mercury Wipes, October 2, 2003

Sample No.	Location	Wipe Area	µg/sq ft
Wipe 3	Purple Room, beneath stained ceiling tiles, 6 feet from east wall, 17 feet from south wall	1	< 0.18
Wipe 6	Yellow Room, floor tile near cribs, beneath air vent	1	< 0.18

Lead dust in carpet, October 2, 2003

Sample No.	Location	Sample Area (sq ft)	µg/sq ft
Dust 1	Green Room, dust from black	1	4.6
Dust 2	Purple Room, dust from carpet in loft, near steps, southeast corner	1	14
Dust 3	of room Hallway, dust from carpet on bench along east wall, outside of	1	13
Dust 4	Green Room, dust from multi- colored rug near west door	1	4.3
EPA and HUD g	uideline for lead dust on floor	-	40

Mercury dust in carpet, October 2, 2003

Sample No.	Location	Sample Area (sq ft)	µg/sq ft
Dust 2	Purple Room, dust from carpet in loft, near steps, southeast corner of room	1	< 0.22
Dust 3	Hallway, dust from carpet on bench along east wall, outside of Orange Room	1	< 0.22

Lead in air, October 2 to 3, 2003

Sample No.	Location	Sample Time (min)	Mg/m3
Air 1	Yellow Room, partition between Yellow room and Orange Room, near Entrance.	675	< 0.00033
Air 2	Purple Room, table near wipe samples	675	< 0.00035
Air 3	Blue Room, table near loft	643	< 0.00036
EPA National Pratice averaged over a c	imary and Secondary Ambient Air Queatendar quarter	uality Standard	0.0015

Notes for all Tables:

 $\mu g/sq$ ft = micrograms per square foot area mg/m3 = milligrams per cubic meter of air < less than limit of detection

IV. DISCUSSION

Based on the sample results, and visual observations, the following comments can be made:

- 1. In general, the sample results reflect the general cleanliness maintained within the Child Care Center.
- 2. A small amount of lead dust was detected in carpet and rug dust samples, well below the HUD guideline. Since lead contamination is common in the environment, the low lead level found in the Child Care Center might have been brought in on clothing and shoes from outside sources.
- 3. The lead air sample results were compared with the EPA ambient air standard, since workplace standards are not applicable to children. The OSHA workplace standard is 0.05 mg/m3. The EPA ambient air standard applies to sensitive populations, such as children.
- 4. The air samples were placed in potential "worst case" areas, such as below a supply air vent, and near the location of water stained ceiling tiles and peeling paint. All lead air levels were non-detectable and far below the EPA ambient air standard.
- 5. No surface dust health limits or recommendations were found for inorganic mercury. Recommendations were found for mercury vapor level. Mercury vapor was previously evaluated using a real-time instrument. EPA has calculated an oral reference dose for inorganic mercury for use at hazardous waste sites of 0.3 microgram/kg/day. For a 20 kg (44 lb) child, the recommended maximum daily ingestion is 6 micrograms of inorganic mercury from all sources, including food. No mercury was detected in the samples, indicating children have extremely low, if any, contact with mercury-contaminated dust within the Child Care Center.
- 6. The investigator was only able to observe the ceiling above the ceiling tiles at several locations without a ladder, mainly the lofts located in the child care rooms. Peeling paint was observed in only one location, above water damaged ceiling tiles located in the Purple Room. The cleaning staff indicated that no active water leak has been observed there for at least two years.

V. CONCLUSIONS AND RECOMMENDATIONS

The sampling results did not show any surface wipe or carpet mercury-contaminated particulates above the detection limit of 0.2 microgram per square foot. Lead was not detected in surface wipes or in air samples above the detection limit. Lead was detected in carpet dust at levels far below the EPA and HUD guidelines for surface lead dust.

Therefore, the current risk to children at the Child Care Center from peeling lead and mercury paint located above the drop ceiling appears to be very low. Any settled dust is generally cleaned on a daily basis. No additional interim controls are necessary at this time.

Nevertheless, some remediation of the peeling paint is recommended if the Child Care Center is to continue operation for a period of time. Remediation would only be necessary for the areas with peeling paint, which is most likely not the entire ceiling area. The work would take place over a weekend, when children do not occupy the center.

General remediation of peeling paint above the drop ceil should include the following:

- 1. Move furniture and toys from affected area, cover with plastic. Turn off the ventilation system.
- 2. Place a portable scaffold to reach above the drop ceiling. Remove ceiling tiles in selected area, clean the top side with HEPA vacuum, place on plastic, and damp wipe.
- 3. Scrape peeling paint and collect paint chips with HEPA vacuum and plastic sheeting.
- 4. Paint a high-solids encapsulant over the affected area.
- 5. Replace ceiling tiles, furniture, etc. and remove plastic and debris from facility. New ceiling tiles should replace any water damaged ceiling tiles.

Cost Estimate Recommendation

A cost estimate and plan for the above remediation can be developed following the evaluation and location of areas of peeling paint. This evaluation should take place after hours, since ceiling tiles should be lifted in two to three locations per room and hallway. The investigator will be equipped with a portable HEPA vacuum to clean any paint chips that fall. Plastic sheeting will also help keep floors clean during the evaluation.

ATTACHMENT

LABORATORY ANALYSIS REPORT

LEAD AND MERCURY SAMPLES OCTOBER 2 TO 3, 2003

GOODFELLOW CHILD CARE CENTER, ST. LOUIS, MO

LABORATORY ANALYSIS REPORT

Environmental Health Laboratory 100 Sebethe Drive, Suite A-5 Cromwell, CT 06416 (800) 243-4903 or (860) 635-6475



State of Connecticut Approval #PH 0510 Lab Accreditations: AIHA #144, AIHA ELLAP #6945

Report #: C0314948

P.O. No.: GSA-St. Louis

Date Received: 10/6/2003

Date Reported: 10/14/2003

Page 1 of 2

	Analytical Method: In	nductively Coupled P	lasma; Modified OSHA ID 1	125			
	Sample	Wipe Area					
	Number	(sq. ft.)	Component	ug	ug/ft ²		
	Wipe 2	1.00	Lead	<2.50	<2.5		
	Wipe 4	1.00	Lead	<2.50	<2.5		
	Wipe 5	1.00	Lead	<2.50	<2.5		
	Wipe 7	1.00	Lead	<2.50	<2.5		
	Wipe 1-Blank		Lead	<2.50	Detection Limit: 2.50 ug		
	Analysis: Metals	nductively Counled P	lasma: Modified OSHA ID 1	125			
	Sample	Wipe Area	_		10 ²		
	Number	<u>(sq. ft.)</u>	Component	цg	<u>ug/ft</u>		
	Dust 1	1.00	Lead	4.60	4.6		
	Dust 2	1.00	Lead	14.1	14		
	Dust 3	1.00	Lead	13.2	13		
	Dust 4	1.00	Lead	4.29	4.3		
	Dust 5		Lead	<2.25	Detection Limit: 2.25 ug		
	(b) (6)						
		(b) (6)				
vet. K	arin Tobin and Carol	Feyerabend (D) (0)		- to the second s	Date:	10/14/2003
you. <u>154</u>							

To: Mary Erio Erio Consulting 3927 Kenwood Kansas City, MO 64110

LABORATORY ANALYSIS REPORT (continued)

Sample	Area					
Number	<u>sq. feet</u>	Component	ug	Concentration	<u>Units</u>	
Dust 2	1.00	Mercury	<0.225	<0.22	ug/ft ²	
Dust 3	1.00	Mercury	<0.225	< 0.22	ug/ft ²	
Dust 5		Mercury	< 0.225	Detection Limit:	0.225 ug	
nan in the second se	9 - 10, 190, _{1,00} - 1	the second second	, which a set	n ana sa ng sa sa s		
Analysis: Metals in A	Air					
Analytical Method: 1	inductively Coupled F	lasma; Modified OSHA II	D 125			
Sample	Air Volume					
<u>Number</u>	(Liters)	Component	ug	Concentration	<u>Units</u>	
Air 1	2280	Lead	<0.750	< 0.00033	mg/m ³	
Air 2	2140	Lead	<0.750	< 0.00035	mg/m³	
A i= 2	2090	Lead	<0.750	<0.00036	mg/m ³	
All 3				Determine The term	0 750	
Detection Limit Concentrations repo A blank was not sub	rted are based on air v mitted with the samp	Lead volumes provided. les.	0.750 ug	Detection Limit: (J.750 ug	
Detection Limit Concentrations repo A blank was not sub	rted are based on air v mitted with the samp	Lead volumes provided. les.	0.750 ug	Detection Limit: (9.730 ug	
Detection Limit Concentrations repo A blank was not sub	 rted are based on air v mitted with the samp	Lead volumes provided. les.	0.750 ug	Detection Limit: (9.730 ug	
Detection Limit Concentrations repo A blank was not sub	 rted are based on air v mitted with the samp	Lead volumes provided. les.	0.750 ug	Detection Limit: (,750 ug	
An 3 Detection Limit Concentrations repo A blank was not sub	rted are based on air v mitted with the samp	Lead volumes provided. les.	0.750 ug	Detection Limit: (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analysis: Mercury W Analysical Method: 4	 rted are based on air y mitted with the samp vites Atomic Absorption Sp	Lead volumes provided. les.	0.750 ug Generation OSHA	Detection Limit: (,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analysis: Mercury W Analysis: Mercury W Analytical Method: 4 Sample	rted are based on air y mitted with the samp /ipes Momic Absorption Sp Wipe Area	Lead volumes provided. les.	0.750 ug Generation OSHA	Detection Limit: (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analysis: Mercury W Analysis: Mercury W Analytical Method: 7 Sample <u>Number</u>	rted are based on air y mitted with the samp /ipes Atomic Absorption Sp Wipe Area <u>sq. feet</u>	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u>	0.750 ug Generation OSHA	ID #145 Concentration	Units	
Analysis: Mercury W Analysis: Mercury W Analytical Method: 7 Sample <u>Number</u> Wipe 3	rted are based on air y mitted with the samp Vipes Atomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u> Mercury	0.750 ug Generation OSHA <u>ug</u> <0.175	ID #145 Concentration <0.18	<u>Units</u> ug/ft ²	
Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wine 8	rted are based on air w mitted with the sampi /ipes Nomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u> Mercury Mercury	0.750 ug Generation OSHA < <u>ug</u> <0.175 <0.175	ID #145 <u>Concentration</u> <0.18 <0.18	Units ug/ft ² ug/ft ²	
Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wipe 8	rted are based on air y mitted with the samp lipes Nomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u> Mercury Mercury Mercury	0.750 ug Generation OSHA < <u>ug</u> <0.175 <0.175 <0.175	ID #145 <u>Concentration</u> <0.18 <i>Outer Concentration</i> Concentration Concentrat	<u>Units</u> ug/ft ² ug/ft ² 0.175 ug	
Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wipe 8	rted are based on air y mitted with the sampl /ipes Atomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00 	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u> Mercury Mercury Mercury	0.750 ug Generation OSHA <0.175 <0.175 <0.175 <0.175	Detection Limit: (ID #145 <u>Concentration</u> <0.18 Oetection Limit: (<u>Units</u> ug/ft ² ug/ft ² 0.175 ug	
Analysis: Mercury W Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wipe 8	rted are based on air y mitted with the sampi /ipes Nomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00 	Lead volumes provided. les. vectrophotometry; Hydride <u>Component</u> Mercury Mercury Mercury	0.750 ug Generation OSHA < <u>ug</u> <0.175 <0.175 <0.175 <0.175	ID #145 <u>Concentration</u> <0.18 <0.18 Detection Limit: 0	<u>Units</u> ug/ft ² ug/ft ²).175 ug	
Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wipe 8	rted are based on air y mitted with the sampl /ipes Atomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00 	Lead volumes provided. les. eectrophotometry; Hydride <u>Component</u> Mercury Mercury Mercury	0.750 ug Generation OSHA <0.175 <0.175 <0.175	Detection Limit: (ID #145 <u>Concentration</u> <0.18 <0.18 Detection Limit: (<u>Units</u> ug/ft ² ug/ft ² 0.175 ug	
Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wipe 8	rted are based on air y mitted with the sampl /ipes Atomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00 	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u> Mercury Mercury Mercury	0.750 ug Generation OSHA <0.175 <0.175 <0.175 <0.175	Detection Limit: (<u>Concentration</u> <0.18 O.18 Detection Limit: (<u>Units</u> ug/ft ² ug/ft ²).175 ug	
Analysis: Mercury W Analysis: Mercury W Analytical Method: A Sample <u>Number</u> Wipe 3 Wipe 6 Wipe 8	rted are based on air y mitted with the sampl /ipes Atomic Absorption Sp Wipe Area <u>sq. feet</u> 1.00 1.00 	Lead volumes provided. les. ectrophotometry; Hydride <u>Component</u> Mercury Mercury Mercury	0.750 ug Generation OSHA < <u>ug</u> <0.175 <0.175 <0.175	Detection Limit: (<u>Concentration</u> <0.18 <0.18 Detection Limit: (<u>Units</u> ug/ft ² ug/ft ² 0.175 ug	

Report No.: C0314948

Page 2 of 2

Environment ESIS Risk Control S One of the ACE Gro	tal Health Services up of Companie	Laborate	ory	;		Standard	TAT	R LAB US Report N	<u>SE ONLY</u> 10. 9438	,	
100 Sebethe Dr Cromwell, CT	rive Suite 06416	A-5				Please call ak	ead	Und l		🗆 AR	10
(860) 635-6475	: (800) 24. • FOD A1	<u>3-4903 F7</u> Natvt	<u>4x (860) 635-</u> TCAL SEI	<u>6750</u> DVICES		Additional cha apply.	irges		No		
(Please fill all blank	ron Al	tter serve you)			and the second	10/6/0	3	. 07 . 01.			
Se	end INVO	OICE To	REQUIR	EDJ		Send	RESULTS	S To [R]	EQUIR	ED]	
Name:	Nan	Eri	0		Nam	e: SAM	F				
Company:	Eric	DCE	m Sult	ne	Com	pany:					
Mailing Add	ress: Z	927	Kene	DOOD	Mai	ing Address:					
City, State, Z	ip: Ka	nsá	5 City	MJG4	// City	, State, Zip:					
PO#, Ref # (I	f Required	<u>1): 65</u>	A. Sta	ouis	Pho	ie No:				rnone Re	esults
Accts. Payab	le Phone N	10: (8	16)753	9030	Fax]	No:				rax Kesu	Its
Accts. Payab	le Fax No:	in de la de			Ema	II: Merida)	mindsp	n na ca		- mail Ke	suits
Sampling Location:	ad/Somi D				Sampl	ing Method:		V			
Product Manufactur	Collected by	(<i>pri</i> /1)	(0)		Janpi	Collector's Signat	ure:				
CHAIN OF	Relinquishe	<u>(</u> D) ((6)	Date/Time J	103 1000	Received by:			,	Date/Time	
CUSTODY	Relinquishe	d by:		Date/Time	7.7.0	Received by:				Date/Time	
,	Method of Sl	hipment: E	EX			Received at Lab by	(b) (6)		_	Date/Time	10/61
	h(a)			The second se			$\alpha \alpha m r + \pi \mu \alpha c c \mu r$	nanie 11 U	nacceptabl	le	
EHL		Â		190 70	<u>S sampi</u>	NOTES	Copt. a rece	54	MPLING :	TIME	
EHE SAMPLE NO (Lab Use Only)	SAMPLE DNTAINER NO	1 Modia Type	ANAL: A 3 sample min less than 3 of r	vsue DESIRED imam charge applies w sach aspecific analyte equested.	then Loca is Other	NOTES reling family ling date, tion and Operation. compounds present, etc.)	SAMPLING RATE (liters/min)-	Start	MPLING	TIME Total Time (minutes)	AH SAMT VOLL (lite)
EBE NO (Lab Use Only)	SAMPLE INITAINER NO	* Modia Type	ARAL A 3 sample min less than 3 of	YCHO AC imam charge appliés w each specific saniyie equested.	ren Ldez is Other	NOTES raise tampfing date, tion and Operation. compounds present, etc.)	SAMPLING RATE (liters/min)	Start	MPLING	TIME Total Time (minutes)	AB SAMP VOLU (litter
EBIL NO (Lab Use Only) Des J Du	SAMPLE INFAINER NO S+1	Modia Type .8 mccf	ANAL A 3 sample min less than 3 of r	Yano DESIREZD (Imana charge appliés w 'each specific saniyte equested	real Lifes	NOTES raing and Operation. too and Operation. compounds present. etc.)	SAN(PLING RATE (liferasimin)	Start	MPLING	TIME Total Time (minutes)	AH SAMP VOLU (litter
	SAMPLE INTEAINER NO SF1 ASt2	Media Type .8 Mcc F	ANAL A 3 sample min len than 3 of Lease d	regio Desilezo de inique charge appliés v andi specific analyte equested	A Sampi Anno Lota is Other Ha 2 Fur	NOTES rating tardipting date. don and Operation. compounds present. etc.)	SAMPLING RATE (Iterstalig)	Start	End	TIME	AL SAMP VOLU (liter
	sample ontrainer No sfi ssfi ssfi ssfi ssfi ssfi ssfi ssfi	Modia Type Smcef	ARALL A 3 sample min less than 3 of L each L each L each L each	You DESIRED when charge applies in and charge applies in and specific sanities aquested. Mey curv Mey curv Mey curv	hen Ldes Ha Ha Ldes Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha	NOTES roing tamping data too and Operation. compounds present, etc.) U Mat pli Km st Wall	SAMPLING RATE (Hersimin) I FFZ I FFZ I FFZ I FLZ	Start	MPLINC .	Titte Total Tims (minutes)	ALE SAMT VOLU (liter
	sample Intrainer No sti sti sti sti sti sti sti sti sti sti	Media Type .Smcef 11 11 11	ANALL A 3 sample min les than 3 of L co L co	YSED DESIREZD (* indian charge applies a sach specific analyse equested. Mey curv Mey curv Corrac	Anno Sampi Anno Las Is Other Anno Las Is Other Anno Las Is Other Anno Las Is Other Anno Las Is Other Is Other I	NOTES rolling tangitus distri- tion and Operation. compounds present, etc.) U Mat plu Km st Wall een Rm	SAMPLING RATE (HERSMID) IFFZ IFFZ IFFZ	Start	End	TIME	All
	sample Interineer No St1 Ast2 Ast2 Ast2 Ast3 Ast4 Ast4 Ast4 Ast4 Ast4 Ast4 Ast4 Ast4	маан Туре .8 <u>месе</u> !1 !1 !1 !1 !1	APAL A 3 sample min legithan 3 of Lead Lead Lead, M	Y CLO 40 Y SHO DESIRED 4 I Man charge applies un each specific sanityte aquested. MCY CLO MCY CLO Y Y Y Y CLO Y Y CLO Y Y Y Y Y Y Y Y Y Y Y Y Y	A Sampi A Samp	NOTES rating tangenting date. dos and Operation. compounds present. etc.)	SAN(PLING RATE (Herring)) IF42 IF42 IF42 IF42 T IF42 T IF42 T	Start	End	Tible Total Time (minutes)	
	SAMPLE INFEATINER NO SFI AST 2 UST 3 UST 3 UST 3 UST 4 UST 3 UST 3	Modia Type .8 mccef 11 11 11 11	ANAL A 3 sample min less than 3 of Lead Lead Lead Lead, A Lead, A Lead, A	YSEDESIBED with charge applies w and apochic analyte aquested. Mexcur Mexcur Jercur I	Ass Sample Ass Less B Other Characte	NOTES rding tartifiting data. too and Operation. compounds present. etc.) If Mat plg Km st Wall reen Rm lank lank low L how L m	SAMPLING BATE (HENNIM)) I FFZ I FFZ I FFZ I FFZ 3.38	Start j925	End End	TIME	All SAMP Volu (liter
	SAMPLE SAMPLE INFAINER NO 3+1 3+	Modie Type 	ARAL A 3 sample min len thas 3 of Lead Lead Lead, A Lead, A Lead, A Lead, A Lead	Your Destreet your of the sensities and specific analyte aquested. Mex curs Mex curs for curs f	A Sample A Samp	NOTES roling tailing tail tion and Operation. composited present. economic present. etc.; etc.	SAMPLING RATE (Horsimin) 1 642 1 7 1 642 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	Start Start 1925 1430	End 6 40	Tible	
	sample Interiner No sti sti sti sti sti sti sti sti sti sti	Media Type . V Mccef 11 11 11 11 11 11 11 11 11 11 11 11 11	ANALI A 3 sample min les than 3 of Lead Lead Lead, A Lead, A Lead, A Lead Lead Lead	All Contractions of the second	Area Linear Area L	NOTES rating tadipting data rating tadipting data rating tadipting data rational operation. composition composition received rec	SAMPLING RATE (Identified) 1 ff2 1 ff2 1 ff2 1 ff2 1 ff2 3.38 3.17 3.25	Start 1925 1930 2000	End 640 1045	Total Total Thus (minutes) (0.1055 (0.755 (0.755) (0.755)	
	sample Internet No Sti Ast 2 Ast 2 A	мали Туро .8 <u>мсее</u> !! !! !! !! !! !! !! !! !! !! !! !! !!	ARALL A 3 sumple mile len than 3 of Lead Lead Lead, M Lead, M Lead, M Lead, M Lead Lead Lead	Mercury Mercury Mercury Mercury Mercury Mercury Mercury	S sample S samp	NOTES retug and operation. compounds present. etc.) H Mat pli Km st Wall reen Rm law L Howt Rm yo Le Rm yo Rm	SAMPLING RATE (HERNING) 1642 1642 1642 1642 3.38 3.47 3.25 3.25	51470 51471 1925 1430 9000	End 640 643	Total Total Time (minuter) (000000000000000000000000000000000000	
	sample interiner No sti Ast 2 Ast 2 Ast 2 Just 2 Ju	1 1 1 1 1 1 1 1 1 1 1 1 1 1	ARAL A 3 sample min len this 3 of Lead Lead Lead, M Lead, M Lead	1990 40 vise DEGIEED + * in an charge applies v act apects applies v act apects applies v <i>Mex curr</i> <i>Mex curr</i> <i>Mex curr</i> <i>for curry</i> <i>for curry</i> <i>for curry</i>	Ass Sample Ass Less B Other Characte	NOTES raing targeting data. too and Operation. composited present. etc.) If Mat pli Km st wall ren Rm law L your Rm we Rm auk you Km	SAMPLING RATE (Hersimin) 1642 1642 1642 1642 1642 3.38 3.17 3.25 1642 1.	Start Start 1925 1930	End 640 643	Time Total The (minute)	
	sample sample	Madia Type .8 Mcce II II II II II II II II II II II II II	ARAL A 3 sample min len than 3 of Lead	1990 40 vise DESIRED add specific analyse add specific analyse	Sampi Sampi Anno Sampi Anno Sampi Anno Sampi Anno Sampi Anno Sampi Anno Sampi Anno Anno Anno Anno Anno Anno Anno Ann	NOTES rating to Bything date. dias and Operation. composited present. economic present. etc.)	SAMPLING RATE (HORNING) 1642 177 1642 1642 1642 1642 177 1642 177 177 177 177 177 177 177 17	54are 54are 1925 1930	End 640 1045		A18 SAMP VOLU (Iller 221 221 221
	shaple interiner No sti sti sti sti sti sti sti sti sti sti	Nadia Type .8 Mccet II II II II II II II II II II II II II	ANALI A 3 sample min les than 3 of Lea d Lea d	1990 JECIE 20 4 visite DESIREZO 4 sadi specific analyse active stario <i>Mex current</i> <i>Mex current</i>	A sample A samp	NOTES raing tailphig data dia and Operation. composited present. etc.;	SAMPLING RATE (HEATMAN) 1442 1442 1442 1442 1442 3.38 3.17 3.25 1442 1442 1442 1442 1442 1442	Start 5 1925 1930 1930	End -	Total Total Thus (minutes) (0 (755) (0 (755) (0 (755)) (0 (755))	
	sample Interner No StI StI StI StI StI StI StI StI StI StI	Nadin Type .8 Mccel II II II II II II II II II II II II II	ARAL A sample min len than 3 of Lead Lead Lead, M Lead, M Lead Lead, M Lead	140 40 visio DEGIREZO and specific analyte squested. Mex curre Mex curre Mex curre Mex curre 1 1 1 1 1 1 1 1 1 1 1 1 1	Anno Lines Anno Lines Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha	NOTES rolling tadipting data tion and Operation. composed present. etc.) U Mat pli Km st Wall reen Rm lank your Rm ple Rm ple Rm rple Rm rple Rm rple Rm rple Rm rple Rm rple Rm rple Rm rple Rm	SAMPLING RATE (HERNAMIA) IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ	51471 51471 1925 1430 2000	End		
	sample internine No sti sti sti sti sti sti sti sti sti sti	Nodin Type Smcel II II II II II II II II II II II II II	APAL A sample min legitime 3 of Lead Lead Lead, M Lead, M Lead	140 40 viseo DESIREZO viseo DESIREZO escolo apocific saniyin equested Mex curre Mex curre Mex curre for curre l l l l l l curry	Sample Sample Ass Lass B Ha Lass Che Che Che Che Che Che Che Che Che Che	NOTES raing tanging data tion and Operation. composited present. ecc.) If Mat pli Km st wall ren Rm lawk your Rm pli Rm low Rm pli Rm low Rm pli Rm low Rm pli Rm low Rm pli Rm low Rm pli Rm	SAMPLING RATE (HERNING) IFFTZ IFFTZ JFFTZ JFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ IFFTZ	554art 579255 19255 14300	End	TIME Total Time (minuter) (mi	
	sample No SFI AST 2 UST 2	Nodin Type Smcef II II II II II II II II II II II II II	ARAL A 3 sample mile In this 3 of Lead	140 40 vise DESIRED add specific analyse add specific analyse	Sampi Sampi Anno Anno Anno Anno Anno Anno Anno Ann	NOTES rating to Bytting date. disa and Operation. composited present. ecomposited present. ec	SAMPLING RATE (HORNING) 1642 1642 1642 1642 3.38 3.17 3.25 1642 1642 1642 1642 1642 1642 1642 1642 1642 1642 1642 1642 1642 1642 1642	54are	End		
	shaple shaple	Nada Nada Nada Nada Nada Nada Nada Nada	ANAL A 3 sample min les than 3 of Lead	140 40 viseo DEGIERED add specific analysis add specific analysis	S sample S sample A samp	NOTES raing tailphig date. dia and Operation. composited present. etc.)	SAMPLING RATE (HEATING) 1442 1442 1442 1442 1442 3.25 1442 144	Start Start 1925 1930	End -		

ESIS Risk C One of the A	mental Heat	th Labora	tory		K Standar	rd TAT	OR LAB ab Report	USE ONI Na. 4948	; r	
Cromwell (860) 635 REQU	, CT 06416 -6475; (800) EST FOR	243-4903 ANALY better serve vo	FAX (860) 635-6750 TICAL SERVICES		Please call for Rush an Additional c apply.	ahead alysis, harges] Und] ESIS ol. Or Con	□ SRF □ Z 1. No.	□ AR □ Clai	ms
	Sand IN	VOICE	A IBEAIIIPENI		10/6/0	3	• <i>a</i> • •			
Name:	Nnd	UE	(14-	Nom	sen	A RESUL	(S 10 / h	LŲUII		
Company	<i>[}[</i> ;	4-1		Com	<u>~////</u> nanv:					
Mailing	Address:			Mail	ing Address	:				_
City, Sta	te, Zip:			City,	State, Zip:	-				_
PO#, Re	# (H Requir	red):		Phor	e No:			€ ⊡ ¢	Phone R	esul
Accts. Pa	yable Phone	No:		Fax 1	No:				FaxResu	ilts
Accts. Pa	yable Fax N	D:		Ema	il:			D	Email R	esult
Sampling Lo	cation:		· · · · · · · · · · · · · · · · · · ·	Sampli	ng Media:			<u>. 4. 500</u>		
Product Man	ufactured/Service R	lendered:		Sampli	ng Method:					
CHAIN	Collected	by (<i>print</i>): 1	6		Collector's Sign	ature:			Date/Time	
CUSTOI	Y Relinquis	hed by	Date/Time	ATUCA	Received by:				Date/Time	
	Method of	Shipment:	EAT.		Received at Lab				Date/Time	
Authoriz	ed by:	ired)	Date:	Sample	Condition Upon R	-(0) (0 Receipt: 0/Acc	eptable 🏾 l	Inacceptab	l l	04
				1		<u> </u>	T.,			r
SAMPLE NO (Lab Use Onbd	SAMPLE CONTAINER NO	• Media Type	ARALYSIS DESIRED ******** A 3 sample minimum charge applies when less than 3 of each specific analyte is requested.	CRector Locati Other	NOTES ding sampling date, on and Operation, compounds present, etc.)	SAMPLING RATE (liters/min)	Start	End	Total Time (minutes)	A SAI VO
	, 0	KIJ)	MONCUM	BI	ant					
	N/R 8	ma	1101	1.01		4				
	Upe 8	1.00	101	,		1:10		L	- 143-	
	N/PR 8							- 		
	Upe 8								-	
	Upe 8									
	N pr 8									
	LJ pr. 8						7			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	LJP 8							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	<i>U p</i> 8				Anna anna anna anna anna anna anna anna					
	<i>L p b b b b b b b b b b</i>				2 					
	L				an a			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	L					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	AJJ PR 8 									
FOR LAH										