

MEETING NOTES			
Meeting Description: Quarterly Health Hazard SEP Committee Meeting			
Desired Results: Review/discussion of committee vacancies, strategic goals, and general updates			
Date: August 23, 2018			
Time: 10:00 AM – 10:30 AM			
Location: LBT (Charlotte via video conference)			
Attendees			
#	HH SEP Committee Members:	#	Guests:
1	John Jaskolka (ETTA) Chair	1	Chris Moore
2	Blair Byrd (Consultative Services)	2	Chris Jasion
3	Doreen Makaya (Compliance East)	3	Kaye Thibodeaux
4	Ed Geddie (ETTA)	4	Nicole Brown
5	Ric Schumann (Compliance East)	5	Greg Williams
6	Blair Byrd (Consultative Services)	6	Jesika Freeman
7	Beverly Stone (Compliance West)	7	George Calvery
8	Mildred Rivera (PSIM)	8	Leaton Jones
9	Chanel Brown (PSIM)		
DISCUSSION ITEMS:			
1	Committee Vacancies: The committee has two member vacancies, one from Compliance East and the other for the co-chair position. Recommendations for appointments to these positions will be made in the future.		
2	Strategic Goals: <u>FY 2018 Progress</u> Compliance Bureau: Number of HH Inspections: 118 (118%) <ul style="list-style-type: none"> Completed – Met their goal of 100 for FY 2018 Health Hazard Program Improvements: 24 (120%) <ul style="list-style-type: none"> Completed – Met their goal of 20 for FY 2018 Consultative Bureau: Number of HH Surveys: 387 (322%) <ul style="list-style-type: none"> Completed – Met their goal of 120 for FY 2018 <ul style="list-style-type: none"> 80% of HH Surveys are Silica ETTA Bureau: Number of related training events: 37 (206%) <ul style="list-style-type: none"> Complete – Met their goal of 18 for FY 2018 		
3	Sampling Data: See attached information below.		

4	Silica Guidance <ul style="list-style-type: none"> • Memo <ul style="list-style-type: none"> ○ Federal OSHA published Interim guidance on Silica for General Industry and Maritime ○ NCDOL is currently reviewing the memo for adoption ○ Memo currently accessible on the Fed OSHA Extranet Page under CSHO Resources 	
5	Open Discussion <ul style="list-style-type: none"> • Silica <ul style="list-style-type: none"> ○ Case file in District 10 has come across a situation in which two vertical standards that refer to the respirator standard are applicable. Must determine which standard would be cited. The case is still under review and once a decision is made, the committee will be informed. • Committee members need to be more involved during the meetings. The recommendation was made that committee members contact the Chair prior to future meetings to discuss any active case as a potential agenda item. 	
6	Next meeting is November 29, 2018 at 10:00 AM <p>Location: 2nd floor conference room (LBT). Phone: 919-779-8568.</p> <p>Please email John Jaskolka at John.Jaskolka@labor.nc.gov if you plan on attending via teleconference or phone.</p>	
Submitted by: John Jaskolka		

		Yearly	Monthly	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug.	Sept.	YTD Total
		Goal	Goal	2017	2017	2017	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018
Reduce levels of exposure to Health Hazards																
Health hazards emphasis inspections East	Comp. East	50	4.2	3	1	2	6	3	3	5	7	2	5			37
Health hazards emphasis inspections West	Comp. West	50	4.2	10	8	2	9	12	11	8	7	5	9			81
Health hazards emphasis inspections- Total		100	8.3	13	9	4	15	15	14	13	14	7	14			118
Number of health hazards-related program improvements	Comp.	20	1.7	2	1	2	1	3	3	5	3	3	1			24
Consultative visits where exposure is documented for health hazards	Cons.	120	10.0	66	30	14	52	32	36	35	36	48	38			387
Related training events	ETTA	18	1.5	5	7	4	2	4	5	4	1	2	3			37
Total persons trained	ETTA	400	33.3	311	147	113	44	71	295	76	40	55	51			1203
Consultative Activity																
Silica		N/A	N/A	56	25	10	42	26	30	28	31	29	34			311
Asbestos		N/A	N/A	5	0	0	3	2	0	0	1	0	1			12
Hexavalent Chromium		N/A	N/A	3	0	2	4	4	4	3	2	2	1			25
Lead		N/A	N/A	3	5	2	3	0	0	1	0	1	1			16
Isocyanates		N/A	N/A	0	0	0	4	0	1	3	2	0	0			10
Total		N/A	N/A	67	30	14	56	32	35	35	36	32	37			374
With Sampling conducted																
Silica		N/A	N/A							1	2	1	3			7
Asbestos		N/A	N/A							0	0	0	0			0
Hexavalent Chromium		N/A	N/A							1	1	2	1			5
Lead		N/A	N/A							0	0	0	0			0
Isocyanates		N/A	N/A							0	2	0	0			2
Total		N/A	N/A							2	5	3	4			14
Compliance Activity																
Silica		N/A	N/A	4	2	0	7	7	5	6	5	3	9			48
Asbestos		N/A	N/A	2	2	0	4	2	1	3	5	3	1			23
Hexavalent Chromium		N/A	N/A	4	0	2	2	1	1	1	1	0	1			13
Lead		N/A	N/A	2	3	1	2	5	4	3	4	2	1			27
Isocyanates		N/A	N/A	2	2	1	2	0	3	1	0	0	5			16
Total		N/A	N/A	14	9	4	17	15	14	14	15	8	17			127
Sampling / Inspection																
Silica		N/A	N/A	2	1	0	1	3	2	3	1	3	1			17
Asbestos		N/A	N/A	1	0	0	1	0	1	0	1	1	0			5
Hexavalent Chromium		N/A	N/A	1	0	2	1	0	0	0	1	0	1			6
Lead		N/A	N/A	2	1	1	1	2	0	2	2	2	0			13
Isocyanates		N/A	N/A	0	1	0	2	0	1	0	0	0	1			5
Total		N/A	N/A	6	3	3	6	5	4	5	5	6	3			46
Overexposure / Inspection																
Silica		N/A	N/A	2	0	0	0	2	0	3	0	0	1			8
Asbestos		N/A	N/A	0	0	0	0	0	0	0	0	0	0			0
Hexavalent Chromium		N/A	N/A	0	0	0	0	0	0	0	0	0	0			0
Lead		N/A	N/A	1	0	1	0	1	0	0	1	0	0			4
Isocyanates		N/A	N/A	0	0	0	0	0	1	0	0	0	0			1
Total		N/A	N/A	3	0	1	0	3	1	3	1	0	1			13

IH Emphasis Program Tracker									
Health Hazards									
Data Current Through: Overall									
Q3 - April thru June	Silica		Lead		Asbestos		Cr(VI)	Isocyanates	
	Results		Results		Results		Results	Results	Totals
	<u>IY2018</u>		<u>IY2018</u>		<u>IY2018</u>		<u>IY2018</u>	<u>IY2018</u>	<u>IY2018</u>
Number of Total Samples (with detectable results)	11		8		0		1	0	20
Number of Inspections (with detectable results)	5		3		0		1	0	9
# of Samples >2 SD Above Mean	N/A		N/A		N/A		N/A	N/A	
Average Severity - All Samples	10.25		0.63		#DIV/0!		0.03	#DIV/0!	
Average Severity - Company Averages	10.96		0.74		#DIV/0!		0.03	#DIV/0!	
Median Severity- All Samples	0.79		0.33		#NUM!		0.03	#NUM!	
Median Severity - Company Averages	1.61		0.43		#NUM!		0.03	#NUM!	
% of Samples >PEL	45.5%		25.0%		#DIV/0!		0.0%	#DIV/0!	
% of Inspections with Samples >PEL	60.0%		33.3%		#DIV/0!		0.0%	#DIV/0!	

MEETING NOTES			
Meeting Description: Quarterly Health Hazard SEP Committee Meeting			
Desired Results: Review/discussion of committee vacancies and strategic updates and goals			
Date: May 24, 2018			
Time: 10:00 AM – 10:30 AM			
Location: LBT (Charlotte via video conference)			
Attendees			
#	HH SEP Committee Members:	#	Guests:
1	John Jaskolka (ETTA) Chair	1	Jill Warren
2	Blair Byrd (Consultative Services)	2	Grant Quiller
		3	Laura Crawford
		4	Judyth Niconienko
		5	Nicole Brown
		6	Kaye Thibodeaux
		7	Jeff McClaren
		8	Austin Geisler
		9	Mark Rasdall
		10	Chris Jasion
DISCUSSION ITEMS:			
1	Committee Vacancies: The committee has lost two members (East Compliance), one of which was the Alternate Chair. Nicole stated new committee members would be selected and the Alternate Chair would be named.		
2	Strategic Goals: <u>FY 2018 Progress</u> Compliance Bureau: Number of HH Inspections: 72 <ul style="list-style-type: none"> On track to meeting “HH inspection” goal <ul style="list-style-type: none"> Average inspections per month: 10 Average inspections per month for the West: 7.5 Average inspections per month for the East: 2.9 38% of HH Inspections are Silica Health Hazard Program Improvements: 9 <ul style="list-style-type: none"> Behind on “Program Improvements” goal <ul style="list-style-type: none"> Past three years, have been 65, 42, 19 Hopeful that we can reach 20 this year. Consultative Bureau: Number of HH Surveys: 269 <ul style="list-style-type: none"> Completed – Met their goal of 120 for FY 2018 <ul style="list-style-type: none"> 80% of HH Surveys are Silica ETTA Bureau: Number of related training events: 31 <ul style="list-style-type: none"> Complete – Met their goal of 18 for FY 2018 		

	<p><u>FY 2019 Proposed Goals</u></p> <p>Compliance Bureau:</p> <p>Number of HH Inspections: 100 Health Hazard Program Improvements: 20</p> <p>Consultative Bureau:</p> <p>Number of HH Surveys: 175</p> <p>ETTA Bureau:</p> <p>Number of related training events: 25 Total persons trained: 500</p> <p><u>5 Year Strategic Plan Update</u></p> <ul style="list-style-type: none"> • Methylene Chloride was not added due to the difficulty in establishing a targeting list. • Keep the same 5 targeted substances on HH. • Will not add an additional optional code for instances where the CSHO conducts an inspection and does not find one of the 5 targeted substances present. • Keep the S-12 code to track improvements made. 	
3	<p>Open Discussion</p> <ul style="list-style-type: none"> • Silica <ul style="list-style-type: none"> ○ Federal OSHA conducting a webinar on the Silica Directive, June 18 ○ Discussion on Silica Inspections being conducted <ul style="list-style-type: none"> ▪ Safety is conducting silica inspections. <ul style="list-style-type: none"> • If sampling needed, call supervisor immediately to get a health officer ▪ Charlotte has put together “kits”, containing calibrated equipment for silica sampling to help CSHOs conduct sampling immediately after opening ▪ Department is working on making these “kits” available for all districts ▪ Some cases have documented overexposure to PEL • Isocyanates <ul style="list-style-type: none"> ○ Discussion on NAICS codes for targeting purposes <ul style="list-style-type: none"> ▪ Nicole informed the committee that additional checks will be done before an isocyanate inspection is assigned 	
4	<p>Next meeting is August 23, 2018 at 10:00 AM</p> <p>Location: 2nd floor conference room (LBT). Phone: 919-779-8568.</p> <p>Please email John Jaskolka at John.Jaskolka@labor.nc.gov if you plan on attending via teleconference or phone.</p>	
Submitted by: John Jaskolka		

MEETING NOTES

Meeting Description: Quarterly Health Hazard SEP Committee Meeting

Desired Results: Review/discussion of strategic goals, sampling data, and general updates.

Date: February 22, 2018

Time: 10:00 AM – 10:30 AM

Location: LBT (Charlotte via video conference; Winston via telephone)

Attendees

#	HH SEP Committee Members:	#	Guests:
1	John Jaskolka (ETTA) Chair	1	Chris Moore
2	Brian Tuttle (Compliance East) Co-Chair	2	Grant Quiller
3	Ric Schumann (Compliance East)	3	Leaton Jones
4	Paul Sullivan (Compliance West)		
5	Blair Byrd (Consultative Services)		
6	Kevin McGuire (Compliance West)		

DISCUSSION ITEMS:

1 Strategic Goals:

FY 2018 Progress

Compliance Bureau:

Number of HH Inspections: 41

Health Hazard Program Improvements: 3

- On track to meeting “HH inspection” goal
 - East conducted 12 inspections
 - West conducted 29 inspections
- Behind on “Program Improvements” goal
 - East conducted 1 program improvements
 - West conducted 2 program improvements

Consultative Bureau:

Number of HH Surveys: 162

- Complete – Met their goal of 120 for FY 2018

ETTA Bureau:

Number of related training events: 18

- Complete – Met their goal of 18 for FY 2018

2 Inspection Coding

- S-12 Program Improvements Code
 - Discussed possible reasons as low number of S-12 Program Improvements
 - Several reasons cited included forgetting to code, contaminants not present/used at worksite and/or companies were in compliance
 - Suggested removing the goal requirement for S-12 Program Improvements at next strategic management plan meeting
 - Explained reason for S-12 Program Improvements code

3 Inspection Statistics

- Provided first quarter statistics for compliance inspection conducted in FY 2018. (attached at bottom)
 - Able to compare East and West
 - Shows average number of inspections per month

	<ul style="list-style-type: none"> ▪ Shows average number of inspections sampled ▪ Breakdown of inspections conducted by contaminate ▪ Breakdown of sampling conducted by contaminate ▪ Breakdown of overexposures by contaminate ▪ Breakdown of program improvements by contaminate • Provided chart of all sampling conducted during the first quarter in FY 2018 <ul style="list-style-type: none"> ○ Shows number of inspections per contaminate ○ Shows number of samples taken per contaminate ○ Shows number of overexposures per contaminate 	
4	Update: Silica Guidance Documents <ul style="list-style-type: none"> • Federal OSHA published an silica interim enforcement guidance memo <ul style="list-style-type: none"> ○ NC OSH will not adopt it • Federal OSHA sent draft CPL for Inspection Procedures for the Respirable Crystalline Silica Standards 3rd version for review <ul style="list-style-type: none"> ○ NC OSH completed its 3rd review of the draft CPL and provided comments back to federal OSHA ○ No word on when this CPL will be finalized • Federal OSHA has published small business guides for construction and general industry for employers 	
5	Open Discussion <ul style="list-style-type: none"> • Strategic Management Plan <ul style="list-style-type: none"> ○ Research ways to see if we can more accurately target employers for Health Hazards <ul style="list-style-type: none"> ▪ SIC codes and NAICS codes ○ Discussion on whether or not to eliminate Isocyanates or replace <ul style="list-style-type: none"> ▪ In past meetings Methylene Chloride was selected as a replacement ▪ Suggestion was made about adding Methylene Chloride and keeping Isocyanates <ul style="list-style-type: none"> • Decision: Recommend to keep Isocyanates since the health effects are severe and add Methylene Chloride to the SEP 	
6	Next meeting is May 24, 2018 at 10:00 AM Location: 2 nd floor conference room (LBT). Phone: 919-779-8568. Please email John Jaskolka at John.Jaskolka@labor.nc.gov if you plan on attending via teleconference or phone.	
Submitted by: John Jaskolka		

Inspection Statistics

First Quarter

Inspections Conducted

	Total	October	November	December
East	6	3	1	2
West	20	10	8	2
Total Inspections	26	13	9	4
Total Program Improvements	2	2	0	0
Inspections: Sampling Conducted	11	6	3	2

Inspection Distribution

Inspections Conducted

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	6	2	0	0	1	3
West	20	4	4	5	5	3
Total	26	6	4	5	6	6

Sampling Conducted / Inspection

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	3	1	0	0	1	1
West	8	2	1	1	3	1
Total	11	3	1	1	4	2

Overexposures / Inspection

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	1	1	0	0	0	0
West	3	1	0	0	2	0
Total	4	2	0	0	2	0

% Inspections Conducted

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	23%	8%	0%	0%	4%	12%
West	77%	15%	15%	19%	19%	12%
Total	100%	23%	15%	19%	23%	23%

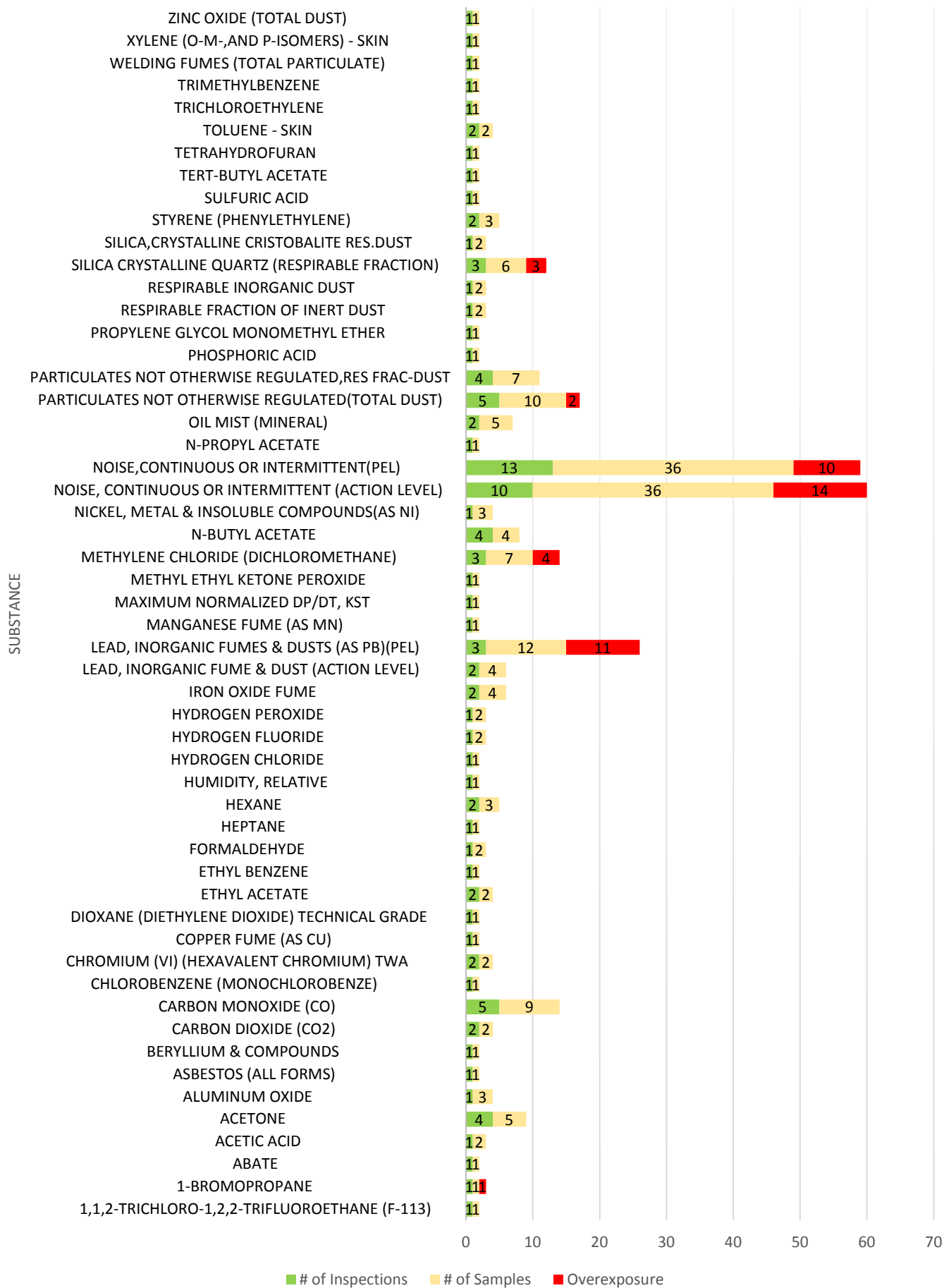
% of Sampling Conducted / Inspection

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	50%	50%	0%	0%	100%	33%
West	40%	50%	25%	20%	60%	33%
Total	42%	50%	25%	20%	67%	33%

% of Overexposures / Inspection

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	33%	100%	0%	0%	0%	0%
West	38%	50%	0%	0%	67%	0%
Total	36%	67%	0%	0%	50%	0%

FFY 2018 – 1st Quarter Sampling



MEETING NOTES

Meeting Description: Quarterly Health Hazard SEP Committee Meeting

Desired Results: Review/discussion of strategic goals, sampling data, and general updates.

Date: November 30, 2017

Time: 10:00 AM – 11:30 AM

Location: LBT (Charlotte via video conference; Winston via video conference; ORB via video conference; Wilmington via telephone)

Attendees

#	HH SEP Committee Members:	#	Guests:
1	John Jaskolka (ETTA) Chair	1	Scott Mabry
2	Brian Tuttle (Compliance East) Co-Chair	2	Kevin Beauregard
3	Ric Schumann (Compliance East)	3	Nicole Brown
4	Paul Sullivan (Compliance West)	4	Laura Crawford
5	Nancy Hall (Compliance West)	5	Leaton Jones
6	Blair Byrd (Consultative Services)	6	Tara Payne
7	Ed Geddie (ETTA)	7	Jill Warren
8	Mildred Rivera (PSIM)	8	Mia Pearson
9	Doreen Makaya (Compliance East)	9	Austin Geisler
		10	Kevin Higham
		11	Cassandra Scott
		12	Judyth Niconienko
		13	Cameron Faulconer
		14	Monica McCaskill
		15	Sheila Higgins (DHHS)
		16	Jess Rinsky (DHHS)
		17	Pierre Lauffer (DHHS)
		18	Jill Simons (DHHS)

DISCUSSION ITEMS:

- 1 **DHHS:**
- Presented PowerPoint Presentation (attached at bottom)
 - Discussed the health effects of lead
 - Discussed DHHS's role in regards to lead surveillance, assessments, and consultation
 - Discussed ways to better communicate between agencies
 - DHHS willing to share their lead assessments and consultation documents
 - What information to include in referrals to NC OSH

2 **Strategic Goals:**

FY 2017 Update

Compliance Bureau:

Number of HH Inspections: 130

Health Hazard Program Improvements: 19

- Met "HH Inspection" goal
 - East conducted 47 inspections
 - West conducted 83 inspections
- Did not meet "Program Improvements" goal
 - East conducted 6 program improvements
 - West conducted 17 program improvements

	<p>Consultative Bureau: Number of HH Surveys: 215</p> <ul style="list-style-type: none"> • Met “HH Survey” goal <p>ETTA Bureau: Number of related training events: 46</p> <ul style="list-style-type: none"> • Met “related training events” goal <p><u>FY 2018 Progress</u></p> <p>Compliance Bureau: Number of HH Inspections: 10 Health Hazard Program Improvements: 1</p> <ul style="list-style-type: none"> • On track to meeting “HH inspection” goal <ul style="list-style-type: none"> ○ East conducted 2 inspections ○ West conducted 8 inspections • Behind on “Program Improvements” goal <ul style="list-style-type: none"> ○ East conducted 1 program improvements ○ West conducted 0 program improvements <p>Consultative Bureau: Number of HH Surveys: 66</p> <ul style="list-style-type: none"> • On track to meeting “HH Survey” goal <p>ETTA Bureau: Number of related training events: 5</p> <ul style="list-style-type: none"> • On track to meeting “related training events” goal 	
3	<p>Inspection Statistics</p> <ul style="list-style-type: none"> • Provided some inspection statistics for FY 2017. (attached at bottom) <ul style="list-style-type: none"> ○ Able to compare East and West <ul style="list-style-type: none"> ▪ Shows average number of inspections per month ▪ Shows average number of inspections sampled ▪ Breakdown of inspections conducted by contaminate ▪ Breakdown of sampling conducted by contaminate ▪ Breakdown of overexposures by contaminate ▪ Breakdown of program improvements by contaminate 	
4	<p>Inspection Coding</p> <ul style="list-style-type: none"> • Coding for Silica in OE <ul style="list-style-type: none"> ○ The “N-16 Silica” code has been removed from OE <ul style="list-style-type: none"> ▪ New Silica code is “N-02 Silica” ▪ OE already has new code available for use ▪ FOM and OPN 135 are in the process of being updated to reflect the new code ○ Adding an additional code to OE for use when contaminate is not present <ul style="list-style-type: none"> ▪ Will be addressed at next “action request meeting” ○ When to use “S-12 Program Improvements” <ul style="list-style-type: none"> ▪ Discussion <ul style="list-style-type: none"> • Is the voluntary use of a respirator a program improvement when being used for silica exposure? <ul style="list-style-type: none"> ○ Decision: Use S-12 code for these scenarios 	

5	Update: Silica Interim Enforcement Guidance Memo <ul style="list-style-type: none"> Federal OSHA published an interim enforcement guidance memo <ul style="list-style-type: none"> Current being reviewed as to whether or not NC OSH will adopt it 	
6	Open Discussion <ul style="list-style-type: none"> When inspection coding is checked <ul style="list-style-type: none"> Reports are run every month, where coding is doubled checked and if an error is noticed then an e-mail is sent. Discussed the responsibilities of CSHOs when a trainee is writing for them. Recommended once an inspection is entered into OE, check at the end of the week to ensure correct coding. 	
7	Next meeting is February 22, 2018 at 10:00 AM <p>Location: 2nd floor conference room (LBT). Phone: 919-779-8568.</p> <p>Please email John Jaskolka at John.Jaskolka@labor.nc.gov if you plan on attending via teleconference or phone.</p>	
Submitted by: John Jaskolka		

Inspection Statistics

Averages

Inspection

	Monthly	October	November	December	January	February	March	April	May	June	July	August	September
East	4.2	4	4.5	3.7	4.3	3.4	4	4.3	4.5	4.3	4.2	4	4.2
West	6.8	7	7	5.7	6.3	6.6	6.7	7	6.9	6.8	6.7	7	6.8
Total	11	11	11.5	9.3	10.5	10	10.7	11.3	11.4	11.1	10.9	11	11

Samples

	Monthly	October	November	December	January	February	March	April	May	June	July	August	September
East	1.8	1	1	0.7	1.3	1	1.5	1.6	1.6	1.7	1.7	1.7	1.8
West	2.4	3	2	1.3	1.5	2	1.8	2	2	2.2	2.3	2.5	2.4
Total	4.3	4	3	2	2.8	3	3.3	3.6	3.6	3.9	4	4.1	4.2

% of inspections sampled

	Monthly	October	November	December	January	February	March	April	May	June	July	August	September
East	44%	25%	22%	18%	29%	29%	38%	37%	36%	38%	40%	43%	44%
West	35%	43%	29%	24%	24%	30%	28%	29%	29%	33%	34%	35%	35%
Total	39%	36%	26%	21%	26%	30%	31%	32%	32%	35%	37%	37%	38%

Inspection Distribution

Inspections Conducted

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	50	23	15	3	4	5
West	82	27	18	23	11	10
Total	132	50	33	26	15	15

% Inspections Conducted

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	38%	17%	11%	2%	3%	4%
West	62%	20%	14%	17%	8%	8%
Total	100%	38%	25%	20%	11%	11%

Sampling Conducted / Inspection

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	22	13	4	1	2	2
West	29	10	3	4	7	5
Total	51	23	7	5	9	7

Overexposures / Inspection

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	3	3	0	0	0	0
West	6	2	0	1	2	1
Total	9	5	0	1	2	1

% of inspections sampled

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	44%	57%	27%	33%	50%	40%
West	35%	37%	17%	17%	64%	50%
Total	39%	46%	21%	19%	60%	47%

% of overexposures to conducted sampling

	Total	Silica	Asbestos	Isocyanates	Lead	Chromium
East	14%	23%	0%	0%	0%	0%
West	21%	20%	0%	25%	29%	20%
Total	18%	22%	0%	20%	22%	14%

P. Impro addressed

	East	West	Total
Silica	4	5	9
Asbestos	1	3	4
Chromium	0	2	2
Lead	1	5	6
Isocyanates	0	2	2

Issue Brief and How to Keep NC OSHA Informed

Occupational and Environmental Epidemiology Branch, NC DPH

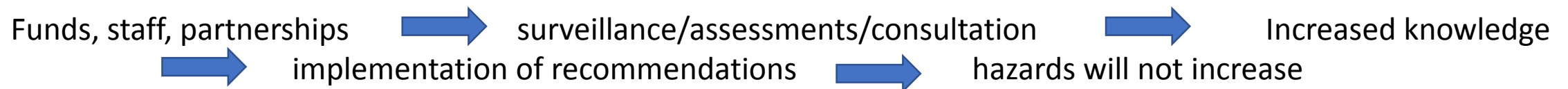
November 30, 2017

Outline

- Overview of what we do
- Samples of investigations (lead)
- Pending lead standard revisions other states
- Discussion/ongoing communication format

Occupational Health, OEEB, NCDPH

- Conduct population-based surveillance (lead and pesticides)
- Conduct investigations for lead if significant hazard
- Provide technical advice to internal groups (e.g. Asthma, Legionella)
- Participate in public health assessments/response (e.g. meth, opioids, GenX, other PHR)
- Provide OH technical advice to private industry and public entities.



No safe level of lead exposure

CHILDREN

Death →
Convulsions →
Kidney disease →

Hypertension in adulthood →

Hearing impairment →
Decreased IQ →
Attention-related deficits →



ADULTS

Worsening symptoms ←
Neurological effects ←
Anemia ←
Non-specific symptoms ←
Spontaneous abortion ←
Sperm abnormalities ←
Increased blood pressure ←
Reduced kidney function, Reduced fetal growth ←

OSHA
Medical removal

NIOSH
Reference level

Take-home lead

- Dust can be unintentionally carried home on
 - Skin
 - Hair
 - Clothing
 - Shoes
 - Personal items



Lead Surveillance at NCDPH

Children



Employees

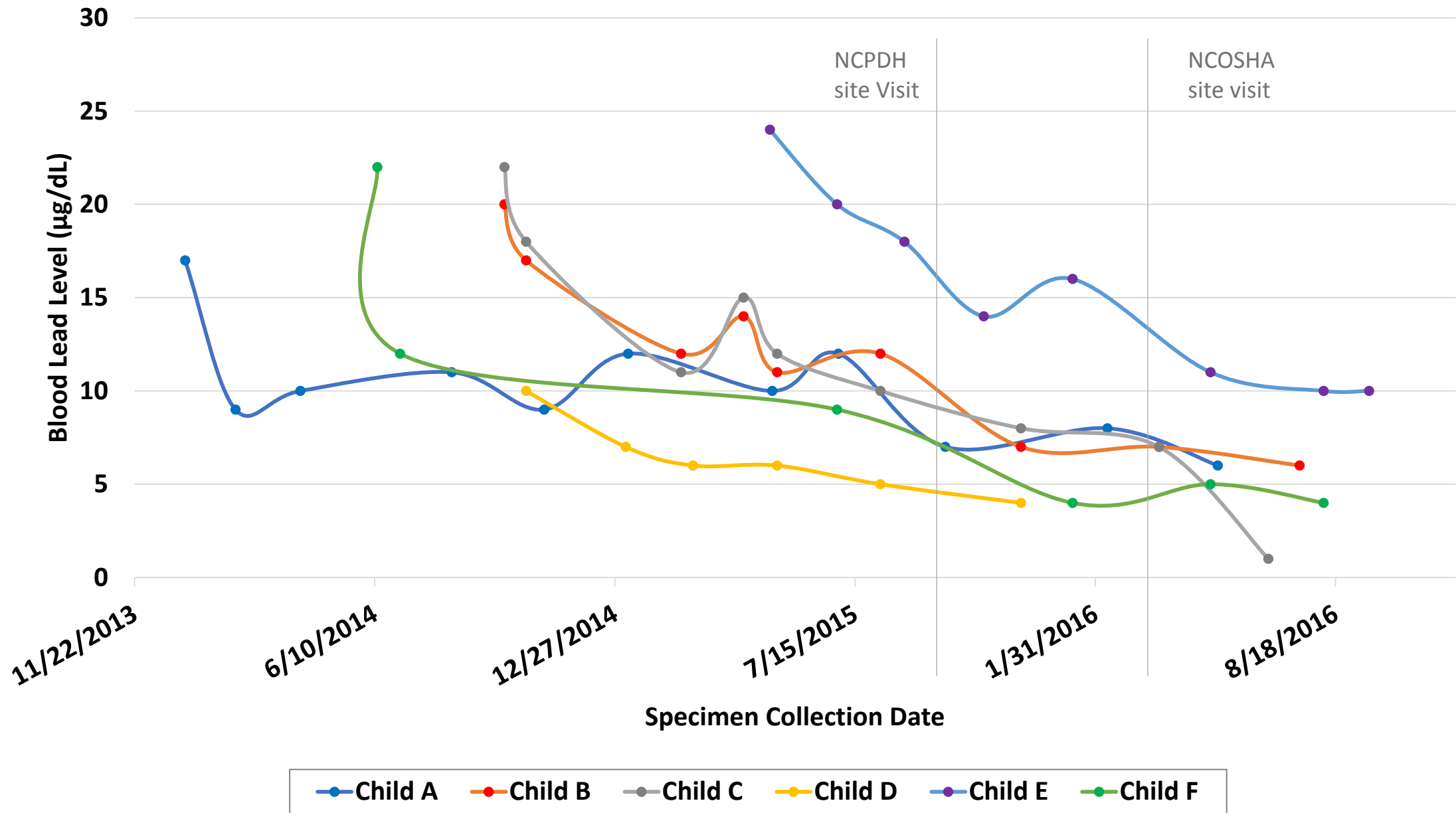


Battery Reclamation Plant Investigation, 2015 - 2016

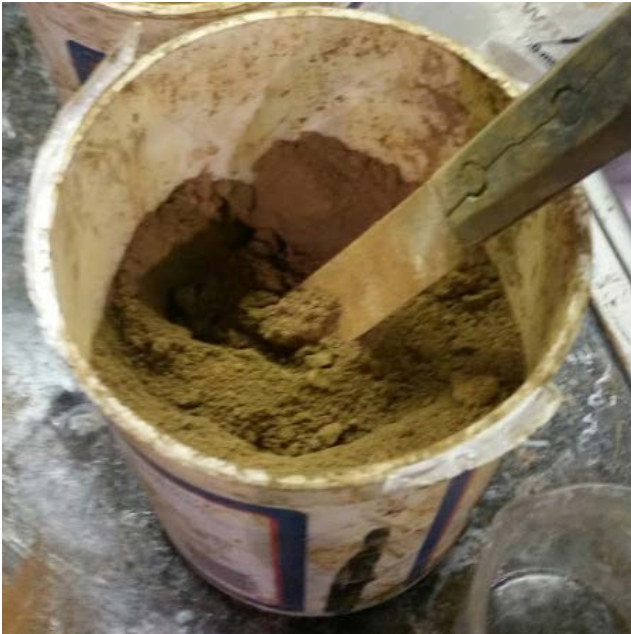


- Received referral for EBLLs for 3 families (6 children) from county HD
- All dads worked at same plant
- 2015 NCDPH did site tour to ID source
- Recommendation report
- 2016 little improvement; referral to NC OSHA
- 14 violations, \$9,400 in fines

Blood Lead Levels ($\mu\text{g}/\text{dL}$) for Children Exposed to Lead from Parents' Occupations at Battery Reclamation Plant 1/3/2014 to 9/15/2016

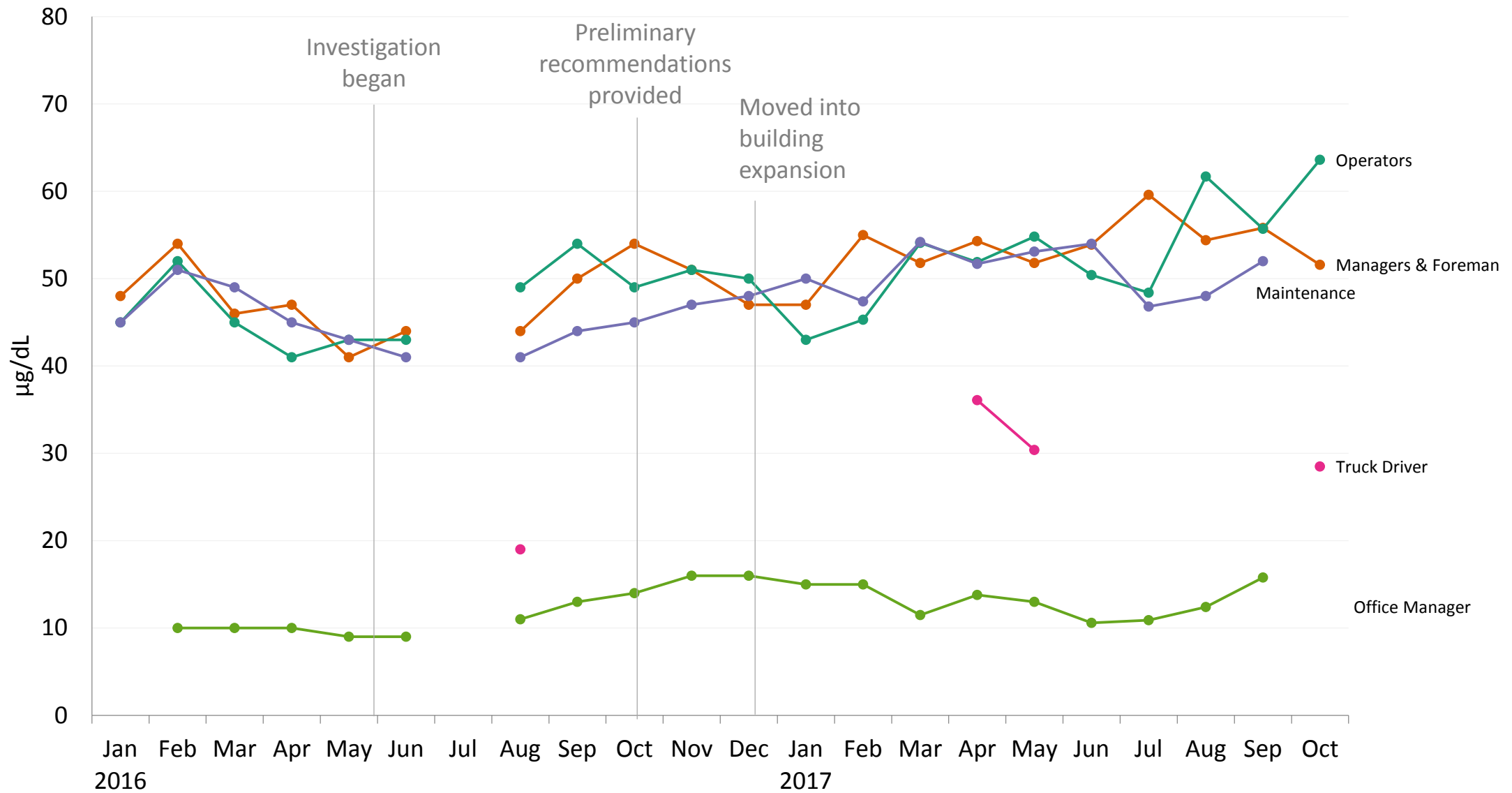


Lead Oxide Manufacturer Investigation, 2016 - 2017

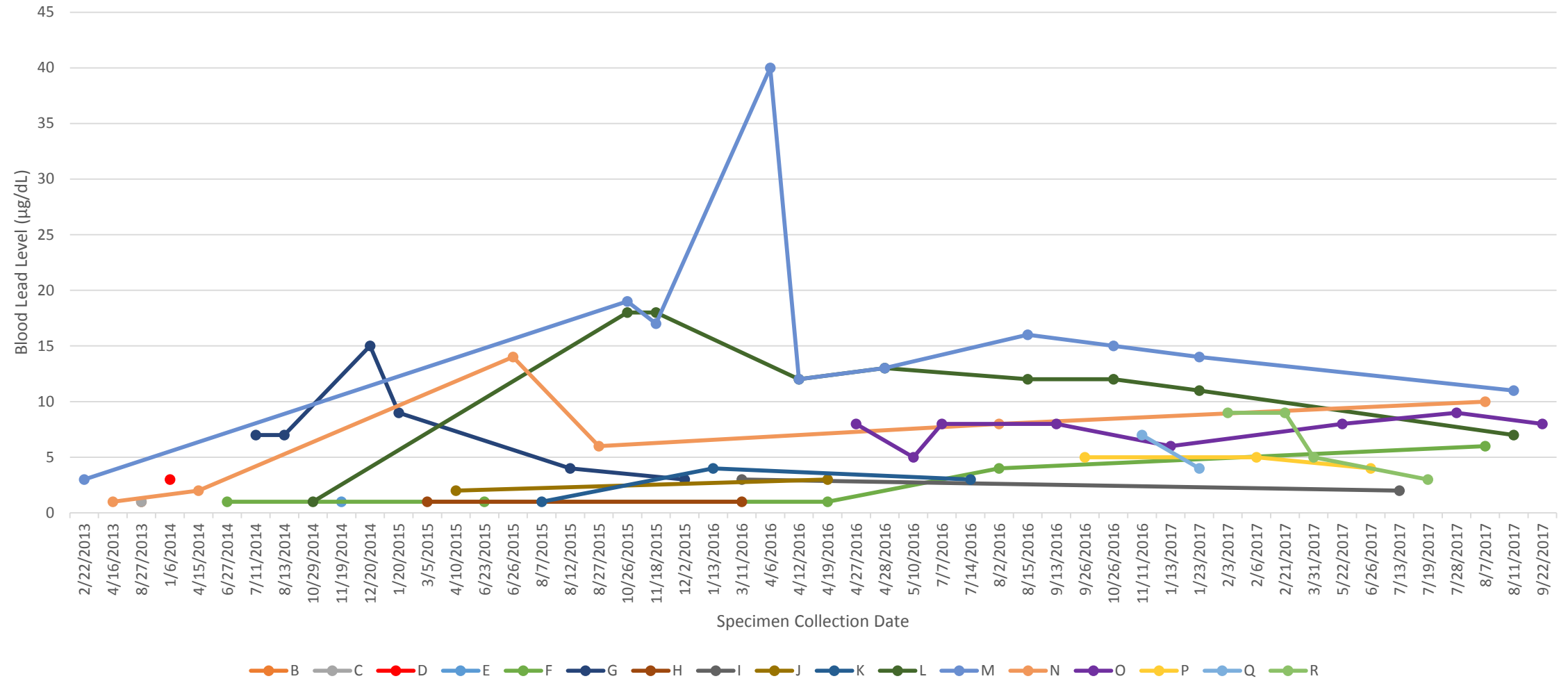


- Adult BLLs trending high since 2015
- June 2016, 5 worker children identified with EBL ($> 5 \mu\text{g}/\text{dL}$)
- 2016 NCDPH tours plant
- Provided general recommendations
- 2016 NCDPH revisits multiple times: review policies/procedures, conduct employee interviews, do training. More recommendations.
- OSHA inspects plant in 2015, 2016 and 2017; (2017: 6 serious violations, \$ 34,000 fines)

Maximum BLLs by job type 2016–2017



Blood Lead Levels (µg/dL) for Children (N=17) Exposed to Lead from Parents' Work in Lead Oxide Manufacturing Facility, 2/2/2013 to 9/22/2017



Lead Standard Revisions in CA and WA

- Petitions arose out of Public Health
- Several years of public meetings
- At final stages of approval
- Both pending economic analysis
- Next step: file a proposed rule



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Key Recommendations:

Goal: keep BLLs < 5 – 10 $\mu\text{g}/\text{dL}$ over 40 years

- Permissible Exposure Limit (PEL) = 10 $\mu\text{g}/\text{m}^3$ (*currently 50 $\mu\text{g}/\text{m}^3$*)
- Action level = 2 $\mu\text{g}/\text{m}^3$ (*currently 30 $\mu\text{g}/\text{m}^3$*)
- Lower medical removal protection level 2 BLL ≥ 20 $\mu\text{g}/\text{dL}$ or 1 BLL ≥ 30 $\mu\text{g}/\text{dL}$ (*currently 50-60 $\mu\text{g}/\text{dL}$*)
- Trigger for BLL testing not dependent on air monitoring
- More frequent BL testing

Discussion questions:

- Questions?
- Are you aware of any efforts to review/revise the lead standard?
Thoughts?
- Preferred method to communicate with you?



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- 2007: EHP article discusses effects at lower levels (Kosnett et al.)
- 2010-2011: CA OLPPP requests Cal/OSHA to revise standards
- 2011-2015: Cal/OSHA held 6 public meetings
- 2017: UC Berkley conducting economic analysis for Cal/OSHA
- Pre-rulemaking package to Occupational Health and Safety Standards Board – **pending**
- Public hearing, public comment – **pending**
- Rule adoption by Standards Board - **pending**



- 2012 large exposure at a gun range
- Health Director at Public Health briefed
- 2013 Public Health sent letter to governor - update lead standards
- 2013 Public Health petitioned Washington State OSHA directly
- 2013 OSHA (6 mos.) declined petition; needed to gather more info and stakeholder input
- 2015 stakeholder meetings began

Continued.....

- 2016 Dr. Kosnett presents on current science
- 2016 CR 101 filed (Preproposal Statement of Inquiry)
- Discussion draft created
- 2017 stakeholder meetings continue
- Economic analysis - **pending**
- File a proposed rule (CR-102), schedule hearings - **pending**
- File a CR 103, final rule for adoption - **pending**

Bellevue shooting range poisoned dozens

The worst known case of workplace lead exposure at a U.S. range happened during renovations at Wade's Eastside Guns in 2012. But documented hazards there go back to 2008.



Lead Exposures

- **42 gun range employees**
- **117 contractors**
- **Highest level in a carpenter – 159 µg/dL***
- **2 children with take-home lead exposures**