To: Reyes, Deldi[Reyes.Deldi@epa.gov]
Cc: Huetteman, Tom[Huetteman.Tom@epa.gov]; Calanog, Steve[Calanog.Steve@epa.gov]; Meer, Daniel[Meer.Daniel@epa.gov]; Gross, Barbara[Gross.Barbara@epa.gov]; Lyons, John[Lyons.John@epa.gov]; CHENG, CHRISTINA[Cheng.Christina@epa.gov]; Tenley, Clancy[Tenley.Clancy@epa.gov]
From: Manzanilla, Enrique
Sent: Tue 4/26/2016 10:44:14 PM
Subject: Re: Exide Update and request (via Keith)

If we're meeting with LA county in the afternoon on Friday, let's do a one hour pre-meeting. So we can prepare for the meeting and for a more general update for each other.

Please respond all and I can ask Christina to get a room for us.
Sent from my iPhone

On Apr 26, 2016, at 1:29 PM, Reyes, Deldi <Reyes.Deldi@epa.gov> wrote:

Tom and Steve, I will be out of the office from **May 2 – 13** but agree that it would be a good idea for you all trade notes on the soil sampling topic sooner rather than later.

My plan is to send an email update to the group after this week's CAG meeting in Commerce and Friday's session with the County.

From: Huetteman, Tom
Sent: Tuesday, April 26, 2016 12:43 PM
To: Calanog, Steve <Calanog.Steve@epa.gov>
Cc: Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>; Reyes, Deldi <Reyes.Deldi@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; Lyons, John <Lyons.John@epa.gov>
Subject: Re: Exide Update and request (via Keith)

We should probably do an in person check in on all things Exide and include this topic. I'm out most of this week. Maybe we can set something up for some time during the first two weeks of May.

Tom Huetteman, Assistant Director

Land Division, EPA Region 9

415-972-3751

On Apr 26, 2016, at 3:14 PM, Calanog, Steve <Calanog.Steve@epa.gov> wrote:

Tom - let me know when you'd like

to talk about this

v/r

Steve Calanog

Federal On-Scene Coordinator

US EPA Region IX

415-595-8350

Sent from my iPhone

On Apr 26, 2016, at 5:54 AM, Huetteman, Tom <Huetteman.Tom@epa.gov> wrote:

At some point I'd like us to talk in more detail about DTSC's approach to soil characterization. I'm not sure how we handle this issue, but it seems to me that this and some other factors have led to an exaggerated view of the nature of the lead contamination. Hard to change the public view at this point, but it seems we should at least try to get a better view of what the data shows and how this may compare to other sites we have worked on.

Tom Huetteman, Assistant Director

Land Division, USEPA Region 9

415-972-3751

From: Calanog, Steve
Sent: Tuesday, April 12, 2016 10:55 AM
To: Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>

Cc: Huetteman, Tom <Huetteman.Tom@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>; Reyes, Deldi <Reyes.Deldi@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; Lyons, John <Lyons.John@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Quast, Sylvia <Quast.Sylvia@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>; Zito, Kelly <ZITO.KELLY@EPA.GOV>; Emeric-Ford, Noemi <Emeric-Ford.Noemi@epa.gov>; thompson, rachelle <thompson.rachelle@epa.gov>; Allen, HarryL <Allen.HarryL@epa.gov>
Subject: Re: Exide Update and request (via Keith)

All - my apologies for coming to this

a bit late - what catches my attention

Is the reference to "discrete" samples

- we (EPA Removal) traditionally take

5-point surfical soil composites per decision unit

(I.e., front yard). I've suggested such

to DTSC in my ph conversation with

Roger Kintz. In short I would not

recommend "discrete" sampling

v/r

Steve Calanog

Federal On-Scene Coordinator

US EPA Region IX

415-595-8350

Sent from my iPhone

On Apr 11, 2016, at 8:34 AM, Manzanilla, Enrique

<Manzanilla.Enrique@epa.gov> wrote:

Thanks Tom.

We can add in the job training info.

Regarding clean-up numbers, you're correct. I had seen something that just included the top two priority criteria:

2.1.1 Prioritization of Properties for Soil Removal

Soil sampling results will be used to identify those residential properties that will be subject to

soil removal activities. The following general criteria will be used to prioritize soil removal at

sampled residential properties.

2.1.1.1 Priority 1 (Highest Priority)

For properties where discrete sample results identify soil lead concentrations greater than or

equal to 1,000 mg/kg in any single soil sample in the uppermost depth interval (0 to 3 inches),

soil removal will be given an initial *Priority 1* status. Further prioritization within Priority 1

status properties will be considered based on demographics and property characteristics, such as

bare soils accessible, and if children and pregnant women reside on the property.

2.1.1.2 Priority 2 (Moderate Priority)

For properties where discrete sample results identify lead concentrations greater than 400 mg/kg

in any single soil sample in the uppermost depth interval (0 to 3 inches), soil removal will be

given a *Priority 2* status. However, if these properties are occupied by children (under 7 years) or

pregnant women and bare soils are present, then soil removal may be given a *Priority 1* status.

2.1.1.3 Priority 3 (Lowest Priority)

For properties where the soil lead concentration is greater than or equal to 80 mg/kg based on a

property-wide 95% UCL of the mean for the uppermost depth interval (0 to 3 inches), the

property will be given a *Priority 3* status. However, if these properties are occupied by children

(under 7 years) or pregnant women, or if bare soils are present, then soil removal will be

given a *Priority 2* status.

For all properties, soil removal will extend to the depth interval at which the 95% UCL is less

than 80 mg/kg or to a depth of 18 inches.

Enrique Manzanilla

Director, Superfund Division

US EPA Region 9 - Pacific Southwest

(415) 972 3843

From: Huetteman, Tom

Sent: Monday, April 11, 2016 7:59 AM
To: Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>
Cc: Reyes, Deldi <Reyes.Deldi@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; Lyons, John <Lyons.John@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Quast, Sylvia <Quast.Sylvia@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>; Zito, Kelly <ZITO.KELLY@EPA.GOV>; Calanog, Steve <Calanog.Steve@epa.gov>
Subject: RE: Exide Update and request (via Keith)

I made some edits in track changes. I didn't have enough background to include the job training reference. My understanding is that DTSC is cleaning soils in residential areas to 80 ppm.

Tom Huetteman, Assistant Director

Land Division, USEPA Region 9

415-972-3751

From: Manzanilla, Enrique
Sent: Friday, April 08, 2016 5:09 PM
To: Huetteman, Tom <Huetteman.Tom@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>
Cc: Reyes, Deldi <Reyes.Deldi@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; Lyons, John <Lyons.John@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Quast, Sylvia <Quast.Sylvia@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>; Zito, Kelly <ZITO.KELLY@EPA.GOV>; Calanog, Steve <Calanog.Steve@epa.gov>
Subject: FW: Exide Update and request (via Keith)

For Exide, we need to adjust the info. Let's be a bit more specific about what we are doing on Exide based on the meeting last month: commented on closure plan; will review sampling and clean up plan; assist on information and data management; support job training efforts; etc. Need to include $176 million just approved by legislature. Also need to reference, recent pressure from electeds for EPA to be more involved and even take over because of $ concerns and state capacity issues. Solis may still raise those issues. Also, check soil clean up level information. Look at DTSC plan – I think they're using 400, not 80.

Enrique Manzanilla

Director, Superfund Division

US EPA Region 9 - Pacific Southwest

(415) 972 3843

From: Reyes, Deldi
Sent: Friday, April 08, 2016 4:21 PM
To: Lyons, John <Lyons.John@epa.gov>; Huetteman, Tom <Huetteman.Tom@epa.gov>; Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>
Subject: RE: Exide Update and request (via Keith)

They'd like to debrief the meeting with the Administrator.

I just learned from Brent that the attached write up is being finalized in prep for the Gina meeting. A final is due Monday. Brent asked me to update it to reflect the confirmation of state funding and the release of the blood lead level analysis.

The other three topics for the Gina / Solis meeting are Porter Ranch, LA municipal stormwater and I-710.

From: Lyons, John
Sent: Friday, April 08, 2016 4:14 PM
To: Huetteman, Tom <Huetteman.Tom@epa.gov>; Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>; Reyes, Deldi <Reyes.Deldi@epa.gov>;

Meer, Daniel <Meer.Daniel@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>
Subject: RE: Exide Update and request (via Keith)

Do we know what they want to discuss – that might help determine who should attend. I presume that the meeting would be in LA.

John Lyons

Acting Assistant Director

California Site Cleanup and Enforcement Branch

Superfund Division, Region 9

(415) 972-3889

From: Huetteman, Tom
Sent: Friday, April 08, 2016 3:28 PM
To: Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>; Reyes, Deldi <Reyes.Deldi@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>; Lyons, John <Lyons.John@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>
Subject: RE: Exide Update and request (via Keith)

Jeff and I are out the week of April 25 and Jeff is out next week. There are options to meet during the weeks of April 18 and May 2. Tom

Tom Huetteman, Assistant Director

Land Division, USEPA Region 9

415-972-3751

From: Manzanilla, Enrique
Sent: Friday, April 08, 2016 2:19 PM
To: Reyes, Deldi <Reyes.Deldi@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>; Lyons, John <Lyons.John@epa.gov>; Calanog, Steve <Calanog.Steve@epa.gov>; Huetteman, Tom <Huetteman.Tom@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Johnson, Kathleen <Johnson.Kathleen@epa.gov>; Priselac, Adrienne <Priselac.Adrienne@epa.gov>; Serda, Sophia <Serda.Sophia@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>
Cc: Jones, Joel E. <Jones.Joel@epa.gov>; Miller, Amy <Miller.Amy@epa.gov>
Subject: RE: Exide Update and request (via Keith)

Thanks for the heads up Deldi.

I'm fine with the County folks requesting a meeting/call with us. But I will be out of pocket most of the week of the 18th and next week we are all tied up with 2 ½ days of meeting with headquarters. Don't know about Jeff and/or Tom's schedule. John and/or Dan may be able to do something the week of the 18th.

Maybe Wayne will step up since he's the acting EO for the south coast.

Enrique Manzanilla

Director, Superfund Division

US EPA Region 9 - Pacific Southwest

(415) 972 3843

From: Reyes, Deldi

Sent: Friday, April 08, 2016 12:51 PM
To: Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>; Meer, Daniel <Meer.Daniel@epa.gov>; Lyons, John <Lyons.John@epa.gov>; Calanog, Steve <Calanog.Steve@epa.gov>; Huetteman, Tom <Huetteman.Tom@epa.gov>; Gross, Barbara <Gross.Barbara@epa.gov>; LEONIDO-JOHN, STEVEN <Leonido-John.Steven@epa.gov>; Johnson, Kathleen <Johnson.Kathleen@epa.gov>; Priselac, Adrienne <Priselac.Adrienne@epa.gov>; Serda, Sophia <Serda.Sophia@epa.gov>; Scott, Jeff <Scott.Jeff@epa.gov>
Cc: Jones, Joel E. <Jones.Joel@epa.gov>; Miller, Amy <Miller.Amy@epa.gov>
Subject: Exide Update and request (via Keith)

Thanks, Enrique. (All, at the very end of this note, if you are not already subscribed to the DTSC newsfeed, you can check out their announcement that the legislature has approved the Governor's request of 176 million.) Good news.

Two purposes of this note:

?□□□□□□□□ Heads up that I'll be setting up a check in for us prior to the next Exide meeting, which is set for Apr 28. Purpose is to just compare notes on any Exide related activities you may have been involved in (mostly for my benefit since I'll be at the meeting). You're welcome to send me an email update if you can't make the meeting.

?□□□□□□□□ Convey updates on a few more items of interest, at the top of that list is today's calls that DTSC organized to roll out the DPH blood lead level analysis. See their News Release and access the study here: - An Analysis of Children's Blood Lead Levels in the Area Around the Exide Site I sat in on today's call and my notes follow but read the news release for the summary.

Other Items

?□□□□□□□□ Supervisor Solis meeting with the Administrator is still set for Apr 19. Keith has recommended that the County meet with us either before or just after. Per Keith this would be at the Enrique/Jeff (not Jared) level since this would be Ben Polk, who works for Solis, and others form County Health and County Counsel. ***Keith has asked if we can make that happen***.

?□□□□□□□□ In light of Barry's departure, it's unclear who from South

Coast will step up

Deldi's draft notes from today's call, not fact checked against study

The purpose of today's call was to roll out to the Exide advisory committee members, in advance of larger public release the main findings of the study. Ana Mascarenas introduced the topic, summarized the findings, moderated the closing Qs and As. Gina Solomon reviewed the study in more depth.

Purpose of study: 2 fold

Is there a pattern of high blood lead levels around Exide communities and if so how can that inform clean up prioritization

Basis of study: 12K blood lead level test results (of children under six) annually that are required to be electronically reported to DPH. Only DPH can access full details. Study time frame was 2012 because this was Exide's last full year of operations.

Geographic focus and levels of comparison:Neighborhoods up to 4.5 miles from Exide composed of 100 census tracts, comparison to LA County overall.

Threshold: 4.5 mg/dl of blood (challenge that various labs report different cut-offs)

Findings:

100 census tracts

BLL in kids under 6 near Exide are higher than those farther away

And also higher than children in LA county overall

Lead in housing also appear to play a significant role.

DTSC mission to clean up regardless of level of blood lead level, acknowledge need to clean up soil before children are contaminated.

Gina S.:

The blood lead testing program is state wide and based on CA law that requires publicly supported programs, i.e., WIC or MediCAL to provide BLL testing of children at 12 months or 24 months of age or anytime up until age 6. If not in a such a program, health care providers are required to ask about potential exposures and test if deemed necessary.

All test results are required by law to be electronically reported to CA DPH. This also applied to the smaller study done by LA County. DPH has access to the repository, Cal/EPA and DTSC does not but requested the analysis.

About 700K tests are reported annually on about 650K kids (some kids get tested more than once).

In year 2012, most recent year for which DPH has reliable QC'd data and last year of Exide operations.

Lead does not linger for years, more for several months.

Looked at different cut-offs for lead as a continuous variable, going down to very low levels, but not possible b/c of reporting differences among labs. For this analysis the cut off is equal to or greater than 4.5 mg/dc blood (DPH equivalent of 5) and this is the the current CDC reference level. Reliable data above and below.

This study looked at 8 zip codes around Exide and all census tracts (100) within these zip codes.

With regard to distance (from Exide):

within one mile of Exide, 3.58 percent of kids under age 6 had at least 4.5 mg/dc of lead in blood

between 1.5 to 4 miles, it was 2.41 percent

in LA County overall, it is 1.59 percent

Other factors considered: direction from Exide, sex of child, (boys more at risk) age, age of housing

Within each of these variables, significant effect with age, sex and age of housing (and housing was looked at in a couple of wasy: median year built and proportion of housing before 1950, 1940 and 1980).

In direction analysis, significant effect found:

Areas to north and west were where highest rates of kids levels found

East, southeast, rates were about same as LA county background

Challenge – are there interactions between various factors

Multivariate analysis – age of housing highly statistically significant

The LA County assessor's office obtained individual age of housing data for every child in the area with a BLL greater than 4.5.

There were over 300 kids in this category who were compared to a similar group that did not have high levels. Again, age of housing significant and distance barely discernable. But direction still significant, areas to north and west of Exide higher than other areas, also higher to east. Surprised to see higher levels to the west but that are is highly industrial.

Report is dense. Lots of tables but these are useful b/c each census tract laid out in table 1

Univariate – distance and direction

Multivariate – table 4, output of logistic regression model

Questions from Call Participants

Teresa Marquez, we were told that most contaminated area was north and south, now it sounds like northwest is most contaminated? What about 1.7 mi boundary?

Air monitoring / modeling predicted based on wind patterns established the 1.7 mi boundary.

Blood lead data just shows us where the kids live who have higher levels. Complicated b/c it's not just Exide sourced, but from a variety of sources. Re finding that areas to the west had higher levels was a bit of a surprise to us as well, those are fairly industrial sources.

No change to 1.7 mi boundary, that's most reliable for soil lead levels.

Andrea Hricko

There are 700K tests done annually in the State. How did they compare to the rest of the county.

Answer

1.59 percent is the average overall for the entire county (includes the 12K kids but many more).

Ana: the 1.7 mi area was determined as well by DTSC soil sampling data based on for example, antimony levels.

Mark Lopez, EYCEC, please recap stats

Answer

3.58% w/in 1 mile

2.41% between 1 and 4.5 mi from Exide

1.95% County overall

What about access to healthcare and rate of testing

Yes all kinds of questions about how complete the lead testing data for CA overall. Not something we can control except that DTSC has been very concerned about making blood lead level testing available to community and made Exide pay for it. And County is doing specific outreach for it. DTSC does not have access to individual test results but if families want to come with us with that data, we welcome it.

County cut off is higher: one BLL of 20 or 2 of 15 in a child. State would considers those needing to be investigated.

You identified north and west, what about the northwest? Residents still concerned about impacts beyond 1.7.

Yes, it includes the northwest.

What about northeast?

Yes, most of the affected areas are closer to Exide, and elevated levels too

From: Manzanilla, Enrique
Sent: Thursday, April 07, 2016 4:31 PM
To: Meer, Daniel <Meer.Daniel@epa.gov>; Lyons, John <Lyons.John@epa.gov>; Calanog, Steve <Calanog.Steve@epa.gov>
Cc: Huetteman, Tom <Huetteman.Tom@epa.gov>; Reyes, Deldi <Reyes.Deldi@epa.gov>
Subject: FW: DTSC News Feed

See item on Exide…

Enrique Manzanilla

Director, Superfund Division

US EPA Region 9 - Pacific Southwest

(415) 972 3843

From: Department of Toxic Substances Control [mailto:departmentoftoxicsubstancescontrol@dtsc.ccsend.com] **On Behalf Of** Department of Toxic Substances Control
Sent: Thursday, April 07, 2016 4:16 PM
To: Manzanilla, Enrique <Manzanilla.Enrique@epa.gov>
Subject: DTSC News Feed

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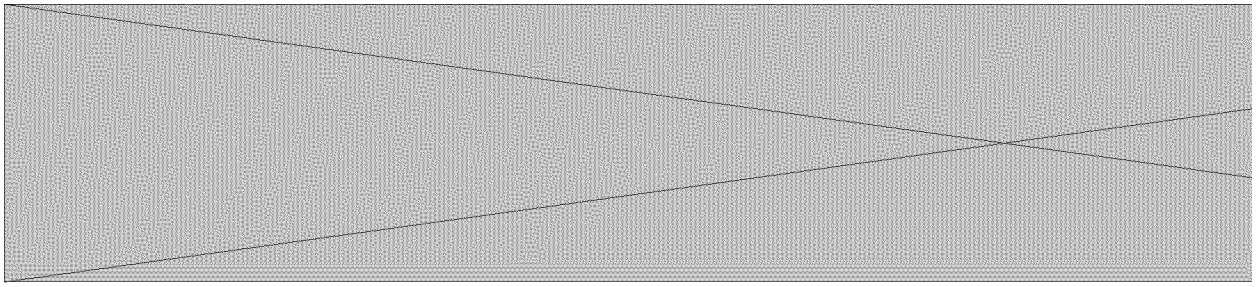

DTSC News Feed is a weekly email that pulls together short updates and internet links to keep you informed about the latest accomplishments and news highlights at the California Department of Toxic Substances Control (DTSC).

april 7, 2016

?□□□□□□□□ The State Senate approved the $176.6 million funding bill Governor Brown proposed to fund the expedited and expanded testing and cleanup of residential properties around the former Exide facility in Vernon. See coverage from EGP News and The Washington Times.

?□□□□□□□□ U.S EPA has proposed adding the Argonaut Mine Site in Jackson to the Superfund National Priority List. DTSC installed a storm water diversion system in November 2015 at the 100-year old Argonaut dam to help direct storm water around the

tailings.

?□□□□□□□□ DTSC's schools program is setting the gold standard for making properties safe.

?□□□□□□□□ More than 700 properties have been sampled near the Exide facility in Vernon. See the latest cleanup numbers here.

Archived versions of DTSC News Feed can be found on the department website.

If you would like to receive DTSC News Feed, a weekly email that pulls together short updates and internet links to keep you informed about the latest accomplishments and news highlights at the State Department of Toxic Substances Control, please subscribe here.

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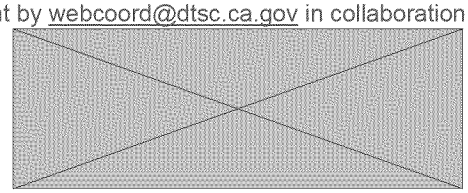

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