To: Wroble, Julie[Wroble.Julie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]
From: McClintock, Katie
Sent: Thur 2/25/2016 5:30:34 AM
Subject: RE: Chromium and Chromium uptake in plants

See my update for a little info on chromium. Richard thanks for the info, it will be part of it.

Also I wonder about smaller glass blowing shops. It is likely there are some emissions but they are gonna be small. I do agree that the issue there is not likely ambient but there could be an impact for the people there. Most of the osha standards are substantially higher than community standards. I think cadmium is something like 5000 ng/m3 for osha and <1 for ambient if I am not mistaken. I also wonder about ceramics where there is more color reaction happening in smaller shops than in glass shops. OR is really putting a lot of effort into looking into these so it will be interesting to see where that leads them.

From: Wroble, Julie
Sent: Wednesday, February 24, 2016 4:32 PM
To: Franklin, Richard <Franklin.Richard@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>
Subject: RE: Chromium and Chromium uptake in plants

I'm not sure if hexavalent chromium that's used as a product in a facility would change upon release to air or stay in a hexavalent form? Maybe someone else in this group could weigh in on that?

I've been curious about even smaller glass facilities (art glass producers) in neighborhoods where there may be few to no emissions controls. Anyone looking into these yet? We've got a few I can think of in Seattle.

Julie

From: Franklin, Richard
Sent: Wednesday, February 24, 2016 12:59 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: Chromium and Chromium uptake in plants

See url below for a very instructive article on chromium in soil, water, and plant uptake in the Journal of Botany. I have spoken with a plant specialist and heard basics such as chrome vi "does not like the environment", and may oxidize readily. If in reducing soils, with levels of iron, vanadium, sulfides and organic materials, Cr VI may be readily reduced. Of course, I am NOT a chemist (only a lowly geologist), But take some time to

read the article.

http://www.hindawi.com/journals/jb/2012/375843/

From: McClintock, Katie
Sent: Tuesday, February 23, 2016 10:35 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: Color Glass Daily Update 2-23-16

It came to my attention that new people added to the group haven't been getting these updates because we had maxed out the ability for onedrive to export email addresses. I have fixed this. For those of you who haven't gotten these, these are my daily updates combining all the information I hear about during the day. I post them on the onedrive as well but for people on phones, I have been emailing. If you would like to be removed from the list, let me know. **Also, if you have an update you think should be included, please send it to me.** I write my

updates after 8 pm each day so each update will include all info I have received during the day.

Ex. 6 - Personal Privacy

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Air Enforcement Officer

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