

Bayview Hunters Point Environmental Justice Response Task Force

Part of the IVAN (Identifying Violations Affecting Neighborhoods) Network: www.bvhp-ivan.org **When:**

Wednesday, June 17, 2020

Time: 2:00 p.m.- 4:00 p.m.

Location: Zoom- <https://us02web.zoom.us/j/83164704314>

Call in #: +1 (408) 638 - 0968 X 86106428801

Meeting I.D: 861 0642 8801 *No password required

Participants:

Alex Velasco(Literacy for Environmental Justice), De Trice Rodgers (standing in for Gwen Jackson Fagan), Crystal Upperman (Aclima), Joni Eisen (boards of Potrero Hill Democratic Club, plus Citizens' Climate Lobby SF Chapter), Scott Andrews (Aclima's Director of Partnership Development & Sustainability), Chris Whipple (Bayview Hill Neighborhood Association and the Southeast Community Council), Kristal Çelik (Greenaction), Natlie Lee (Greenaction), Dr. Blair Lapin (BVHP Resident), Yvonne K (BVHP Resident), Harprit Mattu (CalRecycle), Sara Greenwald (350SF), Kevin Chen (Stanford, Bayview Hunters Point Community Advocates), Aude Bouagnon (medical student at UCSF and a student organizer with White Coats 4 Black Lives), Rachel Cheng (San Francisco Department of Public Health, Environmental Health Branch Local Enforcement Agency Program), Hadrien (Master student in Environmental Assessment), Ray Manion (SF Environment), Sabrina Hall (BVHP Resident and Community Organizer for Green Action for Health and Environmental Justice, Rebecca E. Skinner (San Francisco AQ/ Manylabs), Anne (SF Environment), Blair (Bayview resident, work with Extinction Rebellion SFBay), Ahimsa Porter Sumchai (MD - PI & Medical Director HP Biomonitoring), Eric Bissinger (CARB/Enforcement) Joe Hicken (Aclima), Rachel Cheng (DPH, Solid Waste Program), Renee Jenkins (BVHP Mother's and Father's EJ Task Force), Morgan (Region 9), Martha Sanchez (Department Pesticide)

AGENDA

2:00 Welcome

2:20 Community Announcements and Resources Exchange

2:50 IVAN Complaints

3:10 South Basin Cluster Presentation by Ahimsa Porter Sumchai MD

3:30 Problem Solving

3:55 Next Meeting Dates, Times, and Location

4:00 Meeting Adjourned

MINUTES:

Welcome

Dalila: As we all know for the last few months this has been a testing time, not only do we have COVID affecting the world but we also have a serious movement going on - BLM, police brutality, stuff like that, and I want to acknowledge that this all really heavy. Throughout all this again, I really want to appreciate

all of you for taking time out of this hectic place that we're all in to address EJ issues in BVHP.

[Announces Agenda]

How we typically have been running these meetings is that at every section people on Zoom can unmute themselves, have a discussion, then we can go to participants on the phone. Please let me know if I do not give opportunity for people to participate on the phone. Sometimes it slips. That's pretty much how we have been doing it.

Community Announcements and Resources Exchange

Dalila: If there are any community announcements, resources that folks should know about, this is the time.

Ahimsai: Bradley encouraged a group who were on a zoom meeting that ended about a half hour ago, there are construction activities going on at the shipyard and they involve the fenceline at Kiska Road adjacent to the Boy's and Girl's club and the Nation of Islam University, there is appropriate concern about generating construction dust in a neighborhood hit hardest by COVID. There was a plan to organize a press conference on Monday June 22 at 11am, not sure if that was finalized. There was also discussion about having an action tomorrow at 11 am, just going to the site where the construction activity is going on. I will keep you in the loop. I do want people to be aware that this is an issue that is likely to explode over the coming days.

Sabrina: I would like to respond to Dr. Sumchai's comment. I think it was poor advertisement for us to get this invite an hour or an hour and a half before the meeting, I think its sad that District 10 residents didn't have enough time enough to put input in. This always happens where we don't have time to complain or get in enough people to try to protest this.

Dr. Ahimsa: this was an emergency action and I think it was prompted by videotape that documented the construction activities. It was also prompted by very real public health concerns about them generating toxic dust during the shutdown of a pandemic, during a period when the pandemic cases are rising. SF county was one of the counties that had an increase in cases and its one of the counties with one of the highest case rates in the state of CA.

Sabrina: Thank you, Dr. Sumchai.

Alex: I have an announcement. LEJ Youth is hiring another eco apprentice. I can get you more information if anyone wants. We are looking to hire someone within the community, preferably college age, but if not its all good. No experience is required.

From chat: Email is: Alex.velasco@lejyouth.org, please contact if someone is interested.

Sabrina: I have another announcement to make. This Friday in BVHP, we are going to get out at 3rd and Palou, Greenaction for Health and Environmental Justice, its also going to be a M4BL event, we will have a Juneteenth event, giving out goodie bags, raising awareness for Black lives and environmental justice concerns in the BVHP area. Friday at 12:30 - 2 pm.

No other community announcements or resources to share with the group.

IVAN complaints:

Dalila: We can go ahead and move right into IVAN complaints. [shares screen] I will be sharing my screen for the 2 IVAN complaints we have had. I know there is one very pressing one so if Ahimsa's okay, maybe we can go deep into that one first. I know we have residents on the phone that are really concerned about one of them. So Ahimsa, if you're okay with that.

Dr. Ahimsa: Sure

Dalila:

1. Yosemite Slough: around the Ralph D. House mini park on Laconte. Yosemite Slough was designated a federal Superfund site by the EPA in 2016. It is a site of illegal dumping and has known lead, arsenic, and PCB contaminants. On Friday, May 15th, it was reported an enormous illegal dump. Supervisor Walton responded immediately and the area is improved but dumping still persists.
2. Concrete dust and particles on 2055 Palou Avenue. This is an air issue, concrete dust and particles in houses, window sills, garages facing the street. Concrete dust hardened on vehicles and dust inside and outside of vehicles. [shows photos of dust and concrete particles on cars and people's houses]

Those are the two. We can go ahead and talk about those two now, Sabrina or Ahimsa, I know these are your complaints, sorry to shout you out, if you want to add more, please do.

Sabrina: My neighbor Yvonne is on and she just put in her complaint as well. We live on Palou. The cement company is Seton Pacific. I'm not too sure about who is doing the job, Miss Yvonne knows. We do have some people supposed to come out at 10 am tomorrow but we're not too sure. They've been doing the street and its just been concrete blowing everywhere - into our houses, on our window sills, on our car windows - it does not matter how much you wash your vehicle, you can barely see out of it. A lot of people have been complaining about breathing problems. I'm not sure how I will get it off our house windows. It was just sad there was no dust control at all. We tried to speak to some of the construction people they were very rude. A lot of my neighbors couldn't get on today, I did pass out fliers today. The city, the people that was doing the construction job they hooked up to my personal water supply in my house with using my water hose for two days, they said the City said they have to use my water to complete the project. We all went to an autobody shop around here to get estimates for our vehicles, and this is just for the outside of my vehicles: \$1100 + for one vehicle and \$550+ for another vehicle. That does not include paint jobs, this does not include interiors. People have, like I said, dust inside of their houses, piled up on the window sills, many people around here have breathing problems, like I said, so I am just very concerned. We did not receive notices. Some residents received notices months ago but

it didn't say nothing about concrete covering your cars. Some residents didn't receive any notice - I didn't receive any notice no notice at all. One day I just woke up and they were doing construction. So that's my concern. Yvonne if you are still on the phone you can definitely say something.

Yvonne: everything that Sabrina said - they came out here about 3 weeks ago, started doing construction work at 6 am in the morning. I know there are plenty of noise ordinances, and they didn't have any signs to inform the residents to move our vehicles. I know complaints were made so last week they tried to be in compliance and started to work a little later at 8 am and then they started to push it back to 7:30 in the morning, so there was definitely noise. Sabrina mentioned a lot of dust and a lot of concrete, I actually went in today - to get my car fixed its \$1900. So when we meet with the general contractor, the subcontractor, and the City inspector tomorrow I'm hoping that me, Sabrina, and about 18 of our other neighbors that we were able to get in contact with, that we will be able to deal with this without having to go through with the lawsuit. Its easiest for us just to have Seton Pacific remedy and make whole all of the damage they have done to everyone and then also to take precautions as they are moving up the street on Palou because they are contracted they're doing the work all through Crisp. Again in July, I was told after July 2, another company will come down and lay the permanent concrete. Anything or any advice, any phone calls that we need to make would be greatly appreciated.

Dr. Ahimsa: BAAQMD is supposed to be notified immediately for any visible dust emissions, and this is an avalanche. Has the air management been notified?

Sabrina: Yes Dr. I notified them. Their response was that they would send someone out.

Dalila: Do we have anyone here from BAAQMD here today? We usually do.

[no response]

Dr. Ahimsa: What was their response?

Sabrina: They will send someone out. Taht was the response I got.

Karen: Who is the proponent? Who is doing this work and for whom?

Yvonne: DPW put out a bid, and Darcy and Hardy won the bid, and they subcontracted the work to Seton Pacific

Karen: Does DPW have someone at the site every day?

Yvonne: No they don't.

Karen: I think you should start with that.

Sabrina: I have put in a complaint with DPW already, nothing has been done.

Karen: I hear that. What I'm suggesting is that you guys call back and say you need an inspector here every day, because of the way this is being conducted. They are responsible for it.

Yvonne: As of yesterday, I was informed by Marcia Camacho and Alex Murillo with DPW that residents will have to do one of three things: 1) settle with Seton Pacific and have them pay for all the repairs, which I'm hoping for, 2) file claim against the City, or 3) take Seton Pacific to Small Claims Court. That is the advice I received in writing from the City agency.

Sabrina: I called 311, recommended filing a complaint with the City Attorney's Office. Mine, its just health issues. My son is on a breathing machine, the dust went everywhere. He has no sleep every night. It is ridiculous.

Karen: It is ridiculous, I agree 100%. When a project like this is going on and there are complaints, usually the city department sends an inspector out to pay attention to what is going on. That does not implicate that the City is liable, but just that the City is doing its job. We don't have anyone on this call from DPW, do we?

Dalila: I do not believe so.

Karen: Yeah, nobody stepped up.

Dr. Ahimsa: CARB enforcement is here. Eric Bissinger?

Karen: yes, but thats CARB not DPW. We had the horrible experience of becoming the City's model block. DPW and SF DOE funded the project. It got really messy. We demanded an inspector be out every day because the work was not being done correctly. DPW did get someone out here. It was also the no longer existing redevelopment agency. We could walk out our door and ask where the inspector is, do they see what is going on outside my house? I wish I could suggest who to contact to see about getting that done, but they definitely need to be out there.

Yvonne: I agree. After the meeting tomorrow with the 3 different agencies, we should have a better idea of which direction to take. Unfortunately, after speaking with the City and the foreman from Seton Pacific they were just so quick to say "just file a complaint against the city." But to our benefit, they are still continuing to do the work on the 1900 block of Palou and I don't believe they had the proper signage. There are still people's vehicles out on the street. My vehicle is one of the vehicles with plaster cement on it. It's something they'll have to deal with, they'll see it.

Karen: I get it about the damage to your property, and you will probably have to file those documents. In the meantime, as Ahimsa pointed out, it is the health issues that we are really concerned about. You are all being exposed to that. I suggest that when you meet with the city departments that you make that your number 1 issue. They need to do something about how this is being run to protect the health of the community.

Sabrina: I got that. I definitely will do that. As I mentioned before, concrete particles is very harmful. I will definitely look into that tomorrow.

Dr. Tompkins: I have a suggestion that you contact the BAAQMD - they are responsible by law for fugitive dust leaving the work site. They do have inspectors, when we've have problems previously, they've had to investigate and handle that when they were building the Alice Griffith development. Give them a call as well. I will give them a call as well.

Sabrina: Thank you, Dr. Tompkins. I have filed a complaint and they said they'd send someone out but I just haven't seen them.

Dr. Tompkins: Give Joshua Abraham a call.

Dalila: I can work with you too- I have his email. We can work together to put pressure on the different agencies to handle this issue.

Sabrina: Thank you so much, and if anyone is around tomorrow we are all meeting at 10 am Palou between Selby and Quint if anyone is free to come by.

Dalila: Does anyone on this call have any more resources - whether its agencies, resources to help them get their stuff fixed, health resources, or any knowledge of any regulation or anything that could help them in this case? Folks from DPH? SF DOE? Any thoughts, any resources, anything like that?

[Reps from agencies and city departments did not say anything]

No? Alright.

I want to give a bit of an update on the first Ivan complaint, as we all know, especially folks who have been regulars on EJ task force meetings and residents of BVHP, illegal dumping is a major generational issue in BVHP. We launched an illegal dumping problem solving committee and we met last week in order to start addressing the illegal dumping issues and just having a smaller task force committee to address illegal dumping. Anyone who is interested in joining the committee, please sound off in the chat. We are going to meet next week on the 24th at 2:30 via phone conference. I can send out information for people who are interested.

14:39:27 From Jaimie Huynh - CalRecycle : Hi Dalila, please include me in the subcommittee.

14:39:47 From Jaimie Huynh - CalRecycle : Alameda has been hosting a Regional Illegal Dumping Taskforce. Would you all like to be included?

14:39:52 From Harprit : Hi Please also add me to the subcommittee.

14:39:52 From crw@eff.org : please include me, that one specific area near la conte is a serious

Dalila: I would love to be included in that [the Alameda Regional Illegal Dumping Taskforce], would love to see how they approach these issues. We can go ahead and move on to the presentation.

Dr. Ahimsa: Before we move on and because it dovetails with the presentation, the chronic dumping at Yosemite Slough, and by the way there is some issue with the mapping, I had some issue with getting the map to scroll on my iPhone, so the location is not exact. Those of you who live in the area, if you follow Yosemite east, you run into Yosemite Slough. Designated a superfund site in 2016 after a major lawsuit. The EPA sued about 4 or 5 major industries, they also sued city and county of SF and representative of the Navy. With those funds, it was to go towards the remediation of the Slough and the development of the ecosystem that it once was. Any people who have seen Yosemite Slough recently? No? You can look at it, you don't need any environmental testing, you can look at it and tell that it is toxic. You can see evidence of gasoline and petroleum by products in the water, it is a very hazardous site and it's evident if you just look at it. In addition to the chronic dumping, there is the bigger issue of the status of the remediation. If the remediation was active, you wouldn't have illegal dumping as people would be there cleaning up and remedying the property. The Yosemite Slough area is of concern to me and I will use it to present my comments because I have been concerned for some time that we have had patterns of arsenic detected in residents living around Yosemite Slough. Let me also make the mind blowing point if you all are not aware that that area around the South Basin of Yosemite Slough, that is an area in which residents and workers are exposed to 3 federal Superfund sites including SE Clinic in the Bayview park and the swimming pool that's within a quarter of a mile, 3-4 blocks from Yosemite Slough and about half a mile from the Parcel E2 landfill, and certainly within a mile of the Hunter's Point Shipyard. These are very important, sensitive receptors in addition to residents living on this street.

South Basin Cluster Presentation by Ahimsa Porter Sumchai

[Dr. Ahimsa's slides on screen, Slide 1]

Dr. Ahimsa: We start with this slide, this is from the Navy's Parcel F feasibility study, Parcel F is the shipyard parcel that is underwater and the region I am most concerned with is the Blue area south of the Orange Parcel E region. Orange means this is radiation impacted and radiation contaminated. The half moon bay-shaped region, that is the South Basin, that half moon bay area is directly south of the parcel E2 landfill. One other thing I want you to appreciate from the orange yellow area - go west and see the line cutting off Parcel E area from the residential area - that is Ingalls Street. Ingalls is in a radiation-impacted area. It is the city street that is the western boundary of the HP shipyard. We have in our biomonitoring cluster a family of 4 living at Ingalls and Ingerson. We have a woman who is living on Ingalls, we have someone living on Jamestown close to Ingalls. All of these people have arsenic in their urine, the arsenic levels are very very high. The reason why arsenic is so important is because you can't play around with arsenic. We have been doing the biomonitoring work on this project since January 2019. 10 years before that, Ray Tompkins and I and a few others, we tried to institute a biomonitoring program. In the almost 18 months since we launched the program, we have had some astounding results that no one in a city department have acted on. But this is a watershed moment. You cannot ignore a cluster of people who have arsenic in dangerous levels in their urine. There is no acceptable allowable level of arsenic. One of the things that amazed me as a doctor and I have been a doctor for 40 years - I

have just read up on arsenic - many of the health disparities in this community (diabetes, tumors, kidney disease, lung cancer) arsenic affects all of the cellular systems in the human body - it shuts down the energy systems. That's how it kills you. To be toxic with arsenic in your urine, based on the screenings we've been doing, it must be less than 50 micrograms per gram of urine. We have a woman who has a level of 250 micrograms per gram, another living near the shipyard entry who has arsenic and multiple tumors, multiple radionuclides in her urine and her arsenic levels are also off the charts. Arsenic is a very key element here. It is not something that anyone can ignore. Arsenic is water-borne and airborne. The ways you encounter arsenic toxicity, the shipyard does all of the activities that arsenic is associated with: smelting of metals, use of pesticides, and using arsenic and copper in wood for lumber and construction. Those are some of the major uses of arsenic. It has been found in the groundwater of the shipyard, which flows into the South Basin and into the bay.

The other radionuclide I want to discuss is called Gadolinium - a gamma emitter - very rare, used medically to help screen in MRI scans to enhance the image. They aren't using it so much anymore because it's associated with negative health effects. It's used in the shipyard naval industry because it shields from neutrons, its used in nuclear reactors, nuclear propulsion systems, which is important because we know that nuclear submarines were docked in the shipyard, which could explain why you find this specific radionuclide in residents living around the watery areas of the shipyard.

[Slide 2]

This is the US Navy Radiological Defense Laboratories. It was really huge in the post WWII era, 1946 they were doing almost anything they were doing. The year after the atomic bombs were dropped in Hiroshima and Nagasaki. They were studying the effects of radiation and they didn't have a lot of supervision. The Atomic Energy Commission was in its infantile stages and they said it was okay for the scientists of the NRDL to pour radioactive waste like cesium, radium, and strontium into the drains and those drains connect with the sewer system of the broader community and with SF Bay. That's why the sewer systems are an important source of contamination. The US Radiological Defense Laboratory was a huge operation. One research study was using healthy, muscular human volunteers and fed them radioactive potassium to see what effects there would be on muscle mass. If they were using "muscular" men, that is probably a codeword for African American men.

[Slide 3]

This was the initial pre-cleanup hazard ranking score that the EPA assigned. At that time, it was the Treasure Island Naval Station Hunter's Point Annex. This points to the fact that HP and Treasure Island have a historical relationship. There are 3000 properties on the national priority list in the US - the average EPA ranking score is 50. To get on the Superfund list, you have to have many toxic elements and pose a risk to public health. Of all those properties in this country, the average ranking score is 50. Hunter Point's shipyard overall hazard ranking score is 80, for groundwater migration it is 100%. Meaning that in assigning superfund status to the shipyard, there is a 100% likelihood that groundwater (that we know contains arsenic and radionuclides) would come in contact with sensitive receptors like residents in the area, like people in this room, like the athletes who use the pool, young people who are in the parks, the daycare centers. From the beginning, the EPA in assigning this hazard ranking score is saying that groundwater is a source of toxic contamination. I think the biomonitoring program proves this. We are

identifying a cluster of people who are probably being exposed as a result of their contact with bodies of water surrounding the shipyard.

14:49:01 From Alex V-LEJ : Where can I get arsenic testing? I spend a lot of time within this area

Dr. Ahimsa: HP Biomonitoring is located at 5021 3rd street, Sf CA 94124. We would love to screen you. It's a urine test. There is a cost, your insurance may cover a part of it. If you face an operational risk we can test you. You may not fit criteria to be included in the population we are looking at in the HP biomonitoring program but we welcome the opportunity to administer that test. You can email HPbiomonitoring@comcast.net or contact Ahimsa or Ray Tompkins

14:53:50 From Blair : Dr., where is that lab on the previous slide, relative to Yosemite Slough?

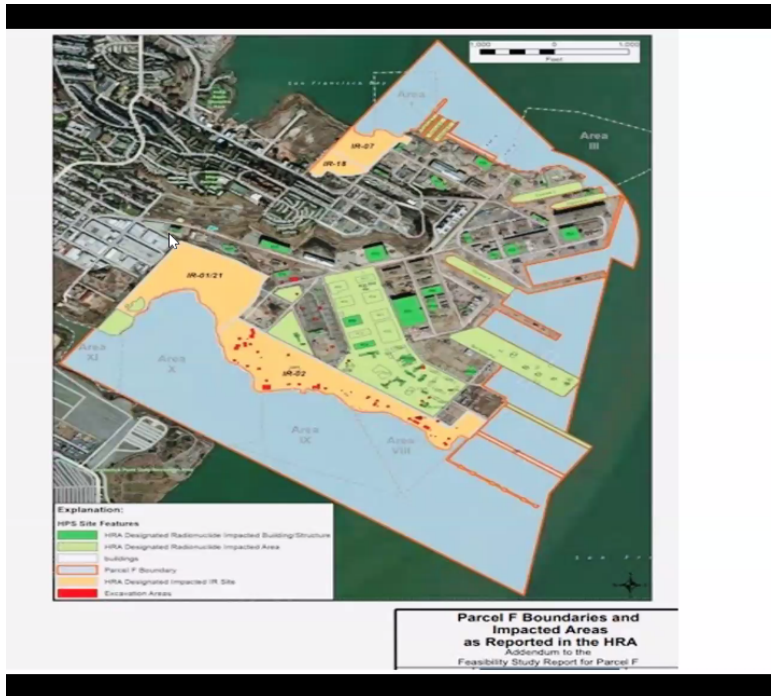
Dr. Ahimsa: Yosemite Slough is a channel, a horizontal body of water that extends from a bay inward. Remember there was the half moon bay that was the South Basin, if you follow that south, there is a channel that goes westward into the community - called Yosemite Slough. South Basin area drains that very dangerous area, very polluted Parcel E shoreline, not only drains into Yosemite Slough, but it's also stagnant. It's like a toilet that drains that does not flush. It is sitting there and accumulating. It is also evident that it is evaporating, as the water line is receding. It's very hot out there. Evaporation means toxic substances are being volatilized. That's another route of exposure to people living nearby to this superfund site.

Dr. Tompkins: There is a sewer pipe coming out of E2 that goes straight into the bay that was in operation. The tall building with no windows is the last building of the nuclear research facility. I just reviewed the radiological study, talking about cleanup - it only went 4 feet and it said they cleaned it. That is substandard scientific work. The core samples should be 30 feet deep to where they have primary production of radiation - they just poured the nuclear experiments. We were at the board meeting where the lab technician who was dying from a tumor from plutonian exposure said they poured it down the drain and she poured it on herself by accident and she's dying from it. This was at the police station back in 78. I know Karen was with us when we were discussing. The Black workers, as Dr. Ahimsa said, carried the radiated animals on their back from D, where you have the docks, a mile and a half, and dumped them in a pit. Nothing but a big hole, no lining, no protection. They brought contamination back to their children, which may be why Black women in the 90s had the highest cancer rate in the world. They didn't give Dr. Gillis enough money, they just criticized it, not really looking to us and our lives matter.

Blair: the previous slide showed a radiological lab - where is that?

Dr. Ahimsa: it is sitting on that Parcel E - Navy Radiological Defense Laboratory. That orange area. On the other side, just east of that, but in the region specifically in that half moon bay area that South Basin, if you go immediately north, that's where the labs were sited and they are still there. Ray mentioned building 815, that big iconic building was the main lab and the administration building. They consolidated into that building in 1955. Animal lab, UCSF Compound, building 830 we looked at 12

workers there - we have a lady who has uranium 17 times higher than the reference range, we've got arsenic, cesium, strontium from people there. There are a series of other buildings, the 800 series building on Crisp Ave, which is the Eastward extension of Palou - the NRD labs should be thought of as a campus. The BVHP community is very much like a campus community. It grew out of commercial, recreational, entertainment and residential grew that out of that campus very much like a college town.



[See mouse in image for the location of the radiological lab.]

Navy keeps these areas in limbo. They do not have to clean them as part of the Superfund cleanup.

It was a big deal, they drew on the best and the brightest from Berkeley and Stanford and UCSF and they are leaving a footprint that I think we as community scientists are starting to get a hand on because we are finding remnants of the radiological operation in workers and residents who are living in this area.

[Slide 4]

Dr. Ahimsa: This is urine toxicology. I acknowledge that this is busy and technologically heavy. If a number is in red or near red, it is outside of the normal range. The column on the right side: these are nutrient elements like calcium, magnesium, potassium that you need in your body in a normal physiological range. When they get too low or too high, it is dangerous. Specifically the manganese and vanadium, we are seeing those in almost everyone we are screening. The manganese is universal, the vanadium we are seeing quite a bit. In addition, we are seeing people who are nutritionally deficient. Their iron and calcium levels are low - magnesium, potassium, zinc levels are also low. We are seeing that specifically in men workers, who need strength and structural integrity to be intact. On the left side we have the toxic elements - there is no reason to have these in your body. There are some allowable levels in the reference range, but you don't need to accept any of these in any concentrations especially when we are seeing multiple toxic elements or multiple nutrient elements in a toxic range, we don't

want to accept any of this since we are in the area of additive and cumulative effects. It throws the issue open if you have Arsenic > 231 and also have Tungsten and valium and strontium in their urine - our area is enormous in terms of additive and cumulative effects. My inclination is to count some of these levels as being significant even if they don't absolutely reach the top of the reference range. The other thing I want to do coming back to the arsenic - you see how arsenic is marked bright red (>231 when its supposed to be under 50) - how there is the lighter red and the brighter red - that means that as soon as you get to 50, you are in the tentative maximum permissible limit. As soon as you get to 50 with arsenic, you are toxic. You don't have any more flexibility around arsenic levels. This level of 231 is incredibly significant. This is the kind of picture we are seeing around arsenic in combination with other toxic elements. What it doesn't show is an elevation in the gadolinium. We are seeing people with elevated levels of the gadolinium. This is again a significant urine toxicology screen, strontium and copper are also elevated.

Element	Reference Range	TMPL	Reference Range
Lead	0.5		<= 1.4
Mercury	<dl		<= 2.19
Aluminum	15.4		<= 22.3
Antimony	<dl		<= 0.149
Arsenic		>231	<= 50
Barium	3.6		<= 6.7
Bismuth	<dl		<= 2.28
Cadmium	0.98		<= 0.64
Cesium	5.3		<= 10.5
Gadolinium	<dl		<= 0.019
Gallium	<dl		<= 0.028
Nickel	2.17		<= 3.88
Niobium	<dl		<= 0.084
Platinum	<dl		<= 0.033
Rubidium	1,391		<= 2,263
Thallium	0.980		<= 0.298
Thorium	<dl		<= 4.189
Tin	0.20		<= 2.04
Tungsten		0.392	<= 0.211
Uranium	0.023		<= 0.026

Element	Reference Range	Reference Range
Chromium	4.3	0.6-9.4
Cobalt	2.05	0.01-2.60
Copper	11.6	4.0-11.4
Iron	29	5-64
Lithium	32	9-129
Manganese		3.01 0.03-1.16
Molybdenum	70	15-175
Selenium	77	32-333
Strontium		368 47-346
Vanadium		9.5 0.1-3.2
Zinc	646	63-688

Results in mg/g creatinine

Element	Reference Range	Reference Range
Calcium	207	37-313
Magnesium	162	41-267
Potassium	2,609	759-4,653
Sulfur	794	367-1,328

Collection Information

Dr. Tompkins: for the education of the audience - if they have symptoms - high arsenic levels often get nose bleeds. Arsenic also used as a medicine as a blood thinner. If any of you all of a sudden start bleeding, that may be an indicator that arsenic levels are high in your body.

Dr. Ahimsa: when vanadium is inhaled, associated with headaches and nosebleeds. The families that lived at Ingalls and Ingerson presented with headaches and nosebleeds - vanadium may be a culprit

there. Malaise and fatigue (nonspecific symptoms) are most common symptoms people present with high body burden of chemicals. Arsenic also associated with multiple tumors. We have 2 people who have been screened who have multiple tumors. I talked with Mary Radcliffe and she said it is okay to announce publicly that she is being evaluated right now. She has elevated strontium levels in her urine. She may be looking at some health effects. She will also need help with the newspaper (editing and fundraising functions) - if anyone can offer help that would be much appreciated.

[Slide 5]

Radionuclides of concern that the Navy has identified in radiological assessment. The current Navy has narrowed it down to 6 of all the radionuclides that are on this list. It includes gadolinium, potassium (all the potassium on parcel A that generated gamma emissions that were thrown out when they scanned parcel A because they said potassium was naturally occurring - it shows up as a radionuclide of concern here) Again, gadolinium is of concern.

[Slide 6] This is a diagram from parcel A finding of suitability to transfer. Shows that arsenic, vanadium, and manganese are chemicals of concern in parcel A soil. Identifies EPA PRGs and HPALs - where Navy came in and set up higher cleanup standards at HP, they argued that arsenic was naturally occurring and set higher cleanup standards. The chemicals, heavy metals, and radionuclides found in urine of people living near the Superfund site and HP shipyard are on this list and were on the list of radionuclides of the previous slide.

[Slide 7]

This is a photo of the south basin and Yosemite Slough and the SF Bay from the point of view of the Bayview Hill area. Surprisingly, we had people with findings in their urine that were detected this far south. This is probably our furthest point south [Points out building 15, the major laboratory] Building 15, the major laboratory, is sitting in front of the Parcel 2E landfill.

Dr. Tompkins: by Meredith's village and the school.

[Slide 8]

Dr. Ahimsa: This is a view of Bayview Park and the SE Center and the swimming pool - very sensitive nest of receptors that is, again, within 3 blocks of Yosemite Slough and very close to Parcel E landfill and HP shipyard. We are currently in negotiations to put an air monitor here. I think we want to put pressure on efforts to expedite the remediation of the conditions of Yosemite Slough, based on danger it places on this community and these receptors.

[Slide 9]

This is a pushpin map Ray and I put together- shows a cluster of workers, 3 households that included 3-4 people each. What this shows is that red is arsenic, out of 30 screenings arsenic was the most dangerous element in its concentrations. Blue is where gadolinium was most significantly elevated. Yellow is manganese. White is vanadium. What this map does not tell you is that in 9 people we screened, all 9 had at least 3 of the elements mentioned above and one person had all 4. Significant cluster for 4 elements.

[Slide 10]

<i>Toxic Elements</i>				<i>Nutrient Elements</i>			
Results in µg/g creatinine				Results in µg/g creatinine			
Element	Reference Range	TMPL	Reference Range	Element	Reference Range	Reference Range	
Lead	0.3		<= 1.4	Chromium	4.4	0.6-9.4	
Mercury	0.25		<= 2.19	Cobalt	0.14	0.01-2.60	
Aluminum	5.5		<= 22.3	Copper	7.3	4.0-11.4	
Antimony	0.016		<= 0.149	Iron	22	5-64	
Arsenic		>64	<= 50	Lithium	14	9-129	
Barium	0.2		<= 6.7	Manganese	1.04	0.03-1.16	
Bismuth	<dl		<= 2.28	Molybdenum	51	15-175	
Cadmium	0.32		<= 0.64	Selenium	202	32-333	
Cesium	4.3		<= 10.5	Strontium	38	47-346	
Gadolinium	0.019		<= 0.019	Vanadium	5.6	0.1-3.2	



This woman has arsenic >50, gadolinium is at the record of reference range. Manganese is above one standard deviation of the reference range. Vanadium exceeds reference range - almost double. This is someone who has all 4 elements.

I will say that the power of what we are doing - I face some criticism because our numbers are low - this is not a COVID 19 nasal swab drive through. It takes at least an hour to administer the evaluation (asking what you eat for breakfast..what time you go to sleep...what was your mother's cause of death) An extensive intake, takes about 10 hours worth of medical records review, mapping, etc. We have 30 people, multiply that by 35 (35 different analytes are being looked at) That is why the power of a cluster takes on more significance even with small numbers. If you have 9 people and all of them have arsenic, gadolinium, manganese and/or vanadium in toxic concentrations, you can't tell me that's not significant. I have a PhD level in statistics from Stanford. What is significant is that we have arsenic that is recurring, arsenic is a public health emergency. I was instructed by ATSDR to contact the CA DPH and they called me right back. Helena Chen is reviewing the information and we are going to meet on this. We are dealing with something that offers a foundation to concerns that people have had for many many years - that there are health disparities that are caused by exposures to environmental toxins. We are establishing causal relationships.

[Slide 11] Photo of HP shipyard area- I helped with the Wikipedia entry for history of the gantry crane which was used to launch missiles and to unload onto battleships. Lenar wants to build houses in front of it on Parcel G, one of the development pushes on the shipyard that we are fighting against.

Dalila: There was a comment - Hadrien is available to help with mapping.

Alex: Are you working with a GIS system? It allows you to see data in a mapping view. I'm not an expert on it, I have taken one class - but it's a really useful technology that large organizations use.

Dr. Tompkins: would love to learn if you can teach me - we are using limited funds, would love to get with you 415-722-7780 is my phone number

Dalila: I'll also include Adrian in that email as well. I know he has experience with mapping.

Hadrien: I have experience in GIS - I can try to walk you through.

Dr. Tompkins: I want to make a plea - please come by, make the appointments. We are 1 mile from the shipyard. Spread the word - the more people know, the more likely people fall into the zone. We don't want what happened to Dr. Gillis's work in the 90s - that we don't have enough people.

Verreos VIA: The individuals who registered high in the 4 different elements of the test - do those readings tell you as a doctor that those people are not only registering high but how close are they to a point where those elements are going to give them cancer affect their health?

Dr. Ahimsa: Yes, based on the patient's history. I had two women who were neighbors, both of them had multiple tumors and arsenic levels are in the 200s range. Arsenic is associated with multiple tumors. These are health effects that are very specific. I also mentioned the 15 year old boy who lives at Ingalls and Ingerson, he has headaches and nosebleeds and elevated vanadium levels. I pointed out that tMary Radcliffe, who has breast cancer, has strontium levels that are very very high. Manganese is related to bipolarity in mood and impulsive behavior. If it is universal in a community where kids are being expelled and disciplined for behavioral problems, then maybe it needs to be looked at. There are also basic issues in regard to these being airborne exposures. If we are seeing specific health risks from exposure to heavy metals, we also see effects from exposure to particulates, which we will be looking at with the air monitors.

Verreos VIA: Do you figure that the mass majority of these airborne?

Dr. Ahimsa: I was until we were seeing the arsenic and valadium - those are the two elements that have the potential for impacting people and exposing people via airboner roots. I think that the south basin cluster as we called it is significant in that we are probably seeing people exposed via airborne roots of contamination. We have another small cluster on the Hunter Point Hilltop who are experiencing cardio-pulmonary diseases. One woman came in and had an asthma attack, she literally had shipyard dirt in her urine. The potassium, nickel, lithium, of course vanadium and manganese. People on the hilltop we are seeing evidence that people are being exposed to airborne contaminants. The 12 workers in building 830 in front of the landfill, thats where we are seeing the outrageous radionuclide profile in the urine. It makes sense that people living for 20-30 years living next to Superfund site would have these contaminants in their bodies. Its associated with intensity of action and duration of exposure. We have a

woman who has sat in front of a landfill for 20-30 years who has uranium levels 17 times higher than the reference range.

Verreos VIA: other than radionuclides, you know where all of the elements would come from . What part of Navy processes would generate the other heavy metals?

Dr. Ahimsa: Vanadium is an alpha emitter that is produced in generation of high speed steel tools - first one we picked up that really had the shipyard's fingerprint on it. Many of the basic elements in parcel A in the soil are in serpentinite, serpentine rock - fundamentally where it came from. The massive community exposure to elements present in serpentinite rock could be result of grading

Verreos VIA: So all that reconstruction, exposure and moving of rock could explain how those elements get released.

Dr. Ahimsa: Yes. Another thing that is concerning me - I got the urine back on a man who used to work at the building 830 (animal compound) is now at Mission Bay, now he has vanadium and manganese at toxic levels. I'm wondering if they are going down to mission bay. I think the next phase of our research needs to see how broad these boundaries are of people affected. Is it everyone in San Francisco?

Dr. Tompkins: You will find in this grading, in the serpentinite rock - there are two species (3 in CA) in BVHP in this unique geological formation - I asked Dr. Lisa White who was department chair of geology, that BV has 2 of these species with the higher levels that Dr. Ahimsa was talking about, and that is unique in San Francisco. Our levels in their community because of their failure, for the 68 days where they stuffed their monitors and their no readings and the rest of it and falsification - that our levels are higher than anywhere else in SF because of the geological formation and therefore increased exposure. It is important that they follow protocol. We are at that higher risk based on the nature of the rock that we are sitting on

Dr. Ahimsa: Slides can be posted as I have removed all personal health information (who they are, where they live, anything identifying), also people have signed legal releases.

Sabrina: If I were to come get tested, how much would I have to pay?

Dr. Ahimsa: The cost is \$129, which can be significant. Medicare pays for it. Tricare pays for it. Select insurance agencies will pay \$50 towards it. Kaiser does not pay for it. I've been very impressed with how many extremely low-income people are paying out of pocket. Do need to make an appointment before coming in for testing - email me. Thanks Sabrina for sounding the alarm on the UCSF animal lab that has become a big issue.

Verreos VIA: Have you checked if there is grant money available so that people may access these tests for free?

Dr. Ahimsa: The Packard foundation grant we got only got \$70k, which is not much to start up a medical practice (usually takes 100,000 - 200,000 to start up the medical practice). What we are doing right now is looking at funding sources to pay for the test and retest of 100 people. The first thing you want to do with off-the-charts results is get a retest. Definitely a priority for the next funding cycle, as well as broadening the area that we are looking at.

Verreos VIA: would you consider doing a kickstarter or gofundme? Those things can raise big money

Dr. Ahimsa: I tried crowdfunding with little success. You're certainly welcome to initiate something like that.

Dalila: updates from the chat regarding BAAQMD:

15:33:54 From Sabrina Hall : SIMON WINER from BAAQM district just showed up to my house. he didn't see concrete on the ground he only seen asphalt. me and another Resident was outside and told him they just poured the asphalt and finished yesterday, he went up the street to talk to the workers. they're getting ready to start the next block of Palou. he did acknowledge seeing all our vehicles and advised we get the company to pay for the damages.

15:37:56 From Blair : That sounds as if he's basically washing his hands of the matter and saying, "good luck, folks." Would it make sense to reach out to Shamann for help with the city?

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15:39:51 From Blair : I mean for the continuing work on Palos.

15:40:13 From Blair : Palou! Damned autocorrect!

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Dr. Tompkins: They should use a mobile PM monitor - don't just send someone out there to "see" - they need to take a measurement. The 1700 model that should have been taken out to the worksite has a 93% accuracy. The district is talking about developing a policy around PM2.5 - you can't see it. That should be a follow up. I will take the initiative. That is not real science.

Sabrina: now there are 5 DPW trucks outdoors taking photos - I wonder if someone on this call alerted them. I tried to approach them and they pulled out.

Dr. Tompkins: I have seen such poor science applied to us and our neighborhoods. Neither the EPA nor the state could tell me what size particles they were measuring. They were that ignorant but were trying to pass it off with a picture of a monitor, but it only measured PM10, not the size that really harms us.

This is not the quality we deserve. This is the same thing as false police reports. Here they are killing us silently, a quiet homicide. As Dr. Ahimsa says: death is death.

Blair: Sabrina, are you saying they are paving the street over? Isn't this a city agency that has to follow regulation, not just go around after the damage has been done and say oh well gosue the company...thats a complete avoidance of responsibility on the part of the city. Shouldn't Shaman be on this?

Sabrina: I'm not too sure what they are doing - at first they had bulldozers and were digging into the street, then covering it up, then chipping at the street. I have emailed Shaman and his aides and tagged him on social media, I haven't heard back. I know he is very busy.

Verreos VIA: there are only a couple reasons to dig into the middle of the street - either something down there you want to get out of you have to go down to fix a broken pipe. Regardless of who is doing the work, the city has to know about it - there has to be permits and clearances and scheduling done - in addition to Shaman, how about contacting the Mayor?

Sabrina: Thats a good idea. We're taking it step by step, we will meet with the representative of the company tomorrow at 10:00 am. The people who did receive a notice (not all of us did) got them about 6 months ago. They said we're just making the streets pretty. They aren't telling us what they're doing.

Verreos VIA: if you get the chance to record those conversations please do.

Dalila: I am trying to improve the efficiency of IVAN - making sure everyone gets emails for these meetings and alerts. I want to make sure everyone reaches out to me, if you are interested in being a problem solver or want to sign up for alerts please send your emails below.

De Trice: I am standing in for my Auntie Gwen Jackson - I want to say thank you for the information and I am interested in participating in the study.

Dr. Ahimsa: Espinola was very much an advocate for the cleanup of Yosemite Slough. I believe Yosemite Slough may have historical significance to the Muwekma Ohlone. That might be an area for you to think about playing an advocacy role on her behalf.

FULL CHAT:

14:01:44	From Dr. Lapin : Hello everyone!
14:02:53	From Alex V-LEJ : Hi everyone, Alex from Literacy for Environmental Justice
14:04:17	From De Trice : Good afternoon standing in for Gwen Jackson Fagan
14:04:33	From Crystal Upperman : Crystal Upperman, Aclima
14:04:55	From Joni Eisen : Joni Eisen

14:05:25 From Scott Andrews : Hi all - I'm Scott Andrews and I'm Aclima's Director of Partnership Development & Sustainability. We are currently mapping the air quality for the entire Bay Area Air District, and will have data to share on BVHP in the coming months. We have been mapping in West Oakland for over a year (and much longer before that for R&D), and you can see some results of that, plus some real-time monitoring at: <https://insights.aclima.io/west-oakland>

14:05:39 From crw@eff.org : Howdy folks, Chris Whipple with Bayview Hill Neighborhood Association and the Southeast Community Council.

14:06:08 From Kristal Çelik : Hi I'm Kristal and I'm taking notes! I volunteer with Greenaction.

14:06:16 From Natlie Lee : Hi everyone! I'm Natlie, an intern at Greenaction and rising senior at UC Berkeley.

14:06:17 From Dr. Lapin : Thank you, Kristal!

14:06:32 From Joni Eisen : oops forgot to say: boards of Potrero Hill Democratic Club, plus Citizens' Climate Lobby SF Chapter

14:06:50 From Dr. Lapin : I'm getting something to eat but listening with the earbuds!

14:07:07 From Yvonne K. : Yvonne, Resident

14:07:32 From Harprit : Hello, this is Harprit Mattu with CalRecycle.

14:07:35 From Sara Greenwald 350SF : Hi I'm Sara with 350 San Francisco

14:07:36 From Kevin Chen : Hi everyone, my name is Kevin. I work at Stanford and have been working with Michelle Pierce and Tony Kelly from Bayview Hunters Point Community Advocates on various initiatives.

14:07:38 From Aude Bouagnon (she/her/hers) : hey everyone, I'm Aude Bouagnon - medical student at UCSF and a student organizer with White Coats 4 Black Lives

14:07:42 From Rachel Cheng : Rachel Cheng from San Francisco Department of Public Health, Environmental Health Branch Local Enforcement Agency Program

14:08:08 From hp-nunes : Hadrien, Master student in Environmental Assessment

14:08:39 From R.Manion SFE : Hello Ray Manion, SF Environment

14:08:44 From Sabrina Hall : Sabrina Hall, Bayview Hunters Point Resident and Community Organizer for Green Action for Health and Environmental Justice

14:08:45 From Rebecca E. Skinner : Rebecca E. Skinner, San Francisco AQ/ Manylabs, happy to see everyone.

14:08:48 From Anne W - SFE : Anne (pronounced as Annie) from SF Environment

14:08:56 From Blair : Blair, Bayview resident, work with Extinction Rebellion SFBay

14:09:15 From ahimsaportersumchai : Ahimsa Porter Sumchai MD - PI & Medical Director HP Biomonitoring

14:09:17 From Eric Bissinger-CARB/ED : - Eric Bissinger with CARB/Enforcement

14:09:21 From Blair : Hey, I have to move my car. Back in a jiffy!

14:10:35 From Kristal Çelik to Dalila Adofo (Privately) : hey! are you recording?

14:11:01 From Joe Hicken (Aclima) : Joe Hicken, Aclima (Public Benefit Corporation which monitors air pollution at a block by block level in support of emissions reductions in disproportionately burdened areas)

14:12:22 From Sabrina Hall : Hey Yvonne this is your neighbor Sabrina.. Thank you for joining

14:13:58 From Blair : Uprising!

14:17:30 From Dalila Adofo to Kristal Çelik (Privately) : I am now. I will upload it in your folder on the google drive so you can access it.

14:20:09 From Alex V-LEJ : Alex.velasco@lejyouth.org

14:21:11 From Yvonne K. : Hi everyone. I may have to leave in about an hour, but I would like to bring up a concern about the cement dust/debris that Seton Pacific is creating. The work is taken place on Palou between Selby and Quint. At least 20 people have damage to their cars, homes and trouble breathing.

14:26:15 From Abraham : Good afternoon all, sorry for being late.

14:31:45 From Alex V-LEJ : Wow that is so unacceptable

14:31:52 From Blair : This must be a violation of air quality regs, no? So it's not just a matter of residents being made whole; there must be fines, as well, right?

14:34:29 From Sabrina Hall : its so hard to sue the city.. poor traffic control

14:34:38 From Sabrina Hall : poor dust contro;

14:35:02 From Rebecca E. Skinner : I'd think that Supervisor Walton would be concerned.

14:36:59 From Yvonne K. : Thank you

14:37:10 From Blair : 10 am Palos between Selby and Quint.

14:37:12 From Sabrina Hall : thank you Yvonne

14:37:23 From Blair : Palou. Sorry.

14:37:38 From Joni Eisen : Rachel Cheng from San Francisco Department of Public Health, Environmental Health Branch Local Enforcement Agency Program - ???

14:37:55 From Sabrina Hall : Palou between Selby and Quint @10am

14:37:56 From Blair : Are there phone calls to make, emails to send, that would be helpful?

14:39:27 From Jaimie Huynh - CalRecycle : Hi Dalila, please include me in the subcommittee.

14:39:47 From Jaimie Huynh - CalRecycle : Alameda has been hosting a Regional Illegal Dumping Taskforce. Would you all like to be included?

14:39:52 From Harprit : Hi Please also add me to the subcommittee.

14:39:52 From crw@eff.org : please include me, that one specific area near la conte is a serious problem

14:41:04 From crw@eff.org : there's dumping at that location, too!

14:42:03 From crw@eff.org : it's terrible.

14:42:14 From Alex V-LEJ : I've checked it out. Lej is located right by

14:49:01 From Alex V-LEJ : Where can I get arsenic testing? I spend a lot of time within this area

14:53:50 From Blair : Dr., where is that lab on the previous slide, relative to Yosemite Slough?

14:57:50 From Dalila Adofo : HP Biomonitoring located at 521 3rd street,hpbimonitoring@comcast.net

14:57:53 From Alex V-LEJ : Thank you so much

14:58:38 From Joni Eisen : Sorry to have to jump off now, thanks everyone for your activism and concern for the community.

15:08:56 From De Trice : stepping away. I will be right back

15:14:58 From Sabrina Hall : can we get Dr. Sumchai clinic Address where people can get tested whether they have to pay cash or not

15:17:35 From Dalila Adofo : Hi All, CORRECTION- HP biomonitoring address is 5021 3rd street, Sf CA 94124

15:18:25 From Sabrina Hall : @Dalila do you know the cost without insurance.. I may have missed it if she announced it

15:19:24 From Dalila Adofo : I am not sure. Please ask after her presentation is done

15:21:24 From hp-nunes : @Dr. Sumchai: I can provide assistance with mapping.

15:24:12 From Blair : Thank you for your work, Dr. Sumchai.

15:26:46 From Rebecca E. Skinner : Thank you Dr Ahimsa, and good to see everyone ! Have to go.

15:27:54 From crw@eff.org : i believe michelle pierce has GIS training plans for community members via the southeast community council

15:28:20 From crw@eff.org : 415-722-7780

15:28:47 From Blair : GIS = geographic information system. A sophisticated data base that can show the data on a map with as much control of how data is represented as can be entered into the database.

15:32:24 From Blair : Dr. Sumchai, can you make the slides from your presentation available to us?

15:33:54 From Sabrina Hall : SIMON WINER from BAAQM district just showed up to my house. he didn't see concrete on the ground he only seen asphalt. me and another Resident was outside and told him they just poured the asphalt and finished yesterday, he went up the street to talk to the workers. they're getting ready to start the next block of Palou. he did acknowledge seeing all our vehicles and advised we get the company to pay for the damages.

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15:46:49 From Alex V-LEJ : Thank you so much for your research and dedication to the community Dr. Sumchai

15:47:23 From crw@eff.org : dalila your audio is pretty choppy, at least for me.

15:52:42 From Alex V-LEJ : Amen

15:57:07 From Blair : Sabrina, thank you for your work for the community.

15:57:41 From Sabrina Hall : I will post this food update. better to do it early mornings. they're usually full by 12pm. the maximum you can pick is 6 meals. every 3 days. Daly City and San Francisco Zip codes only.

15:57:43 From Sabrina Hall : 415-599-8727

Text that number saying: YES I NEED FOOD

*Follow the prompts

*you have to use a SF Zip Code, you can do it every 3 days, no identifying information is needed upon picking up food from Restaurant. Only your First name and last 4 digits of your telephone number.

I already did it.