Federal Agency
Pollution Removal Funding Authorization

Recipient Agency: **National Oceanic and Atmospheric Agency**

Address: **7600 Sand Point Way NE**
Seattle, WA 98115

1. **Purpose**

This document authorizes reimbursement to the Recipient Agency from the Oil Spill Liability Trust Fund or CERCLA funds for certain removal costs incurred in response to the following pollution incident, ITC Tank Fire, Federal Project Number/CERCLA Project Number, E19617. This funding authorization is expressly contingent on the Recipient's compliance with all requirements contained herein.

2. **Approved Functions and Reimbursement Limit**

Costs will be reimbursed only for actions that are directed or approved in advance by the FOSC. Approval may be verbal or written. Assessment, restoration, rehabilitation or replacement of natural resources damaged by the spill are not covered.

Maximum limit of authorization: $30,000.

3. **Conditions**

See attached page(s) for scope of work, special conditions, date of performance, directions or approvals.

4. **Period of Authorization**

This authorization shall remain in effect until the completion date specified by the FOSC (which normally corresponds to the date of final removal activities).

5. **Reimbursement Procedure**

Upon completion of removal activities, the Recipient Agency will submit a SF-1080/1081 to the FOSC with detailed records of expenditures and activities for which reimbursement is sought. The agency may elect to use its own records providing an equivalent amount of documentation which has NPFC approval, or the agency may elect to use NPFC's Resource Cost Documentation package. The agency must submit the final request for reimbursement, supported by the required documentation, within 90 days following the completion date. If OMB Circular A-87 cost rates apply, cost certifications must be included. If at the end of the 90 days from final removal activities, there are any costs for which reimbursement has not been requested, written notice will be sent to the agency and 30 days later any balance remaining in the account will be de-obligated.

6. **Accounting Data**

Document Control Number: _____
Accounting String: _____

90040880

ED_002627_00017096-00001

7. **Points of Contact**

Adam Adams FOSC	Telephone: 214-665-2779 FAX: E-Mail: adams.adam@epa.gov
Brittany Fleming, NOAA Recipient Agency Representative	Telephone: 206-526-6786 FAX: E-Mail: Brittany.fleming@noaa.gov
Michel Carreon NPFC Case Officer	Telephone: 202-795-6076 FAX: E-Mail: michel.a.carreon@uscg.mil

8. **Authorizing Official**

Signature: _____

Title: Federal On Scene Coordinator Date: 03/21/2019

Attachments: (1) Scope of Work

ED_002627_00017096-00002

Message

Sent: 3/20/2019 3:31:00 AM
To: Assunto, Carmen [assunto.carmen@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]
Subject: RE: Delivery Status Notification (Failure)

The bottom paragraph may be incorrect… Coast Guard is not taking samples, nor is EPA or TCEQ taking hourly samples..

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

From: Assunto, Carmen
Sent: Tuesday, March 19, 2019 9:29 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>
Subject: FW: Delivery Status Notification (Failure)

FYI. USCG provided some verbage in case we have news releases, revised desk statements, etc. Carmen

From: PADET Houston <padethouston@gmail.com>
Sent: Tuesday, March 19, 2019 9:18 PM
To: Assunto, Carmen <Assunto.Carmen@epa.gov>
Subject: Fwd: Delivery Status Notification (Failure)

I apologize. I had misspelled you last name in the email I sent a minute ago. Below is the email.

---------- Forwarded message ----------
From: PADET Houston <padethouston@gmail.com>
To: ryan.vise@tceq.texas.gov, assento.carmen@epa.gov
Cc:
Bcc:
Date: Tue, 19 Mar 2019 21:07:44 -0500
Subject: USCG input for next EPA/TCEQ release
Good evening,

Coast Guard Sector Houston-Galveston is requesting the below verbiage to be included if your agency has any upcoming news releases concerning the Deer Park fire. If there are any edits, changes or corrections to the below paragraphs we request a review before it's released. Our sector commander, Capt. Kevin Oditt, has also requested to review any releases if it mentions Coast Guard operations. Thank you.

The Environmental Protection Agency, Coast Guard and Texas Commission on Environmental Quality continue to monitor response efforts and mitigate waterway environmental impact from a tank farm fire at the International Terminals Company LLC facility in Deer Park, Texas.

In addition to efforts to combat the fire and complete air quality standards monitoring, International Terminals Company LLC (ITC) has contracted an Oil Spill Response Organization to mitigate environmental impact to the Houston Ship Channel and surrounding waterways.

The ORSO is actively engaged in operations to contain and recover firefighting foam and potential contaminants that may have breached the facility's containment and entered into Tucker Bayou. Containment boom has been placed at the intersection of Tucker and Buffalo bayous and sorbent boom has been
placed at strategic locations along the facility's drainage outfall in an effort to further prevent discharge.

EPA, TCEQ and Coast Guard personnel continue to collect hourly water samples from Buffalo Bayou, Tucker Bayou, and the drainage outfalls adjacent to the ITC facility to assess waterway impact caused by the overflow of firefighting water and foam from the facility's containment area.

Respectfully
Petty Officer Kelly Parker
U.S. Coast Guard
Public Affairs Detachment Texes
724-726-1790

Message

Sent: 3/19/2019 11:43:54 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: RE: Heads up re EJ in Deer Park

ITC just briefed us that they are adding another air monitoring contractor to supplement what CTEH is conducting… EMSI has a mobile air monitoring platform which will be able to monitor for BTEX compounds…

I asked if they could focus on identified EJ areas, if we provided them maps to look at… Everyone in the briefing agreed this would be a good idea, so they will focus on those areas as soon as can provide them

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get home and walk down to my mouth. Often, this is a sad thing."

From: Gray, David
Sent: Tuesday, March 19, 2019 5:51 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Mason, Steve <mason.steve@epa.gov>
Subject: Fwd: Heads up re EJ in Deer Park

Sent from my iPhone

Begin forwarded message:

> **From:** "Blanco, Arturo" <Blanco.Arturo@epa.gov>
> **Date:** March 19, 2019 at 5:45:21 PM CDT
> **To:** "Gray, David" <gray.david@epa.gov>
> **Cc:** "Chancellor, Erin" <chancellor.erin@epa.gov>, "Idsal, Anne" <idsal.anne@epa.gov>, "Bokun, Lisa" <Bokun.Lisa@epa.gov>, "Edlund, Carl" <Edlund.Carl@epa.gov>, "Vaughn, Gloria" <Vaughn.Gloria@epa.gov>
> **Subject: RE: Heads up re EJ in Deer Park**
>
> By the way, we will also call our EJ contact in TCEQ tomorrow to let them know of the concern by tejas on the air monitoring gap they saw.
>
> Omari also received this afternoon the following questions from tejas via email: (we will work with SF on addressing)
>
> Have any buildings or areas of Lynchburg Ferry Sheltered-in-place as a result of the ITC chemical storage fire, and/or smoke?
> Will any indoor air quality assessments be conducted inside the various schools withing these districts.
> Will other school districts conduct indoor air quality assessments?
> How many tanks at the ITC location are fully involved or partially involved in the fire?
> Where is run-off water being directed to? If water run-off is directed to Houston Ship Channel the public

should be informed of any water testing results. When will these results be available?
What VOC was detected by ITC at 5:30 am on 3/18/19, and approximately in what community?
What particulate matter was detected PM10 or PM2.5?
What is considered "below hazardous levels", and what levels is the company referring to TCEQ, EPA?

A fire in Baytown, TX also occurred on 3/16/19, are any public reports available for air quality or what chemical was on fire for the Baytown incident?

-----Original Message-----
From: Blanco, Arturo
Sent: Tuesday, March 19, 2019 5:36 PM
To: Gray, David <gray.david@epa.gov>
Cc: Chancellor, Erin <chancellor.erin@epa.gov>; Idsal, Anne <idsal.anne@epa.gov>; Bokun, Lisa <Bokun.Lisa@epa.gov>; Edlund, Carl <edlund.carl@epa.gov>; Vaughn, Gloria <Vaughn.Gloria@epa.gov>
Subject: RE: Heads up re EJ in Deer Park

On the phone this morning his concern was that EPA provided air monitoring, including working with NASA. I mentioned the air monitoring using ASPECT and he liked hearing that.

This afternoon t.e.j.a.s' Deidre Arellano came from Fort Worth on behalf of Juan, relayed public health exposure concerns. Said that t.e.j.a.s is working well through a liaison in Harris County, but at this point is concerned about some data gaps in some of TCEQ monitors. We gave her the website link to access the ASPECT data and she welcomed the information. Deidre also made a request on behalf of Juan to set up a meeting with Anne at a mutually convenient time and location (Dallas or Houston). Juan wants to share the kind of work he is thinking on doing with cooperation from the agencies. I plan to talk with you more on this in our weekly meeting in the morning.

-----Original Message-----
From: Gray, David
Sent: Tuesday, March 19, 2019 5:26 PM
To: Blanco, Arturo <Blanco.Arturo@epa.gov>
Cc: Chancellor, Erin <chancellor.erin@epa.gov>; Idsal, Anne <idsal.anne@epa.gov>; Bokun, Lisa <Bokun.Lisa@epa.gov>; Edlund, Carl <Edlund.Carl@epa.gov>; Vaughn, Gloria <Vaughn.Gloria@epa.gov>
Subject: Re: Heads up re EJ in Deer Park

Did Juan have any specific concerns?

Sent from my iPhone

> On Mar 19, 2019, at 5:23 PM, Blanco, Arturo <Blanco.Arturo@epa.gov> wrote:
>
> We touched base this afternoon with Lisa on what we should be sharing and we will be emailing EJ advocates in the area tomorrow. Meanwhile, we met with t.e.j.a.s this afternoon and shared information witih them.
>
> -----Original Message-----
> From: Gray, David
> Sent: Tuesday, March 19, 2019 5:16 PM

To: Blanco, Arturo <Blanco.Arturo@epa.gov>

Cc: Chancellor, Erin <chancellor.erin@epa.gov>; Idsal, Anne <idsal.anne@epa.gov>; Bokun, Lisa <Bokun.Lisa@epa.gov>; Edlund, Carl <Edlund.Carl@epa.gov>; Vaughn, Gloria <Vaughn.Gloria@epa.gov>

Subject: Re: Heads up re EJ in Deer Park

We should be proactively reaching out to our EJ advocates in the area to share info and hear their concerns first hand. Are we sending them updates?

Sent from my iPhone

> On Mar 19, 2019, at 10:58 AM, Blanco, Arturo <Blanco.Arturo@epa.gov> wrote:
>
> Juan Parras called me moments ago over environmental concerns in Deer Park. He wants to ask EPA to be involved in air monitoring and while I generally mentioned EPA is supporting a response to the event with monitoring, I also verified email addresses he wanted, so you may be getting an email from him.
>
> I spoke with Lisa, so I will also share with Juan shareable information when I get it. I will check back later after my dental appointment where I am checking in now.
>
> Sent from my iPhone

Message

Sent: 5/4/2019 2:02:23 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]
CC: Smith, Monica [smith.monica@epa.gov]
Subject: RE: Draft ITC update info you requested -- 03/19/2019

What is the fire wall?
It is the secondary containment wall that surrounds the 15 tanks…

Do we have the original quantity of material for each tank….
I had sent it to you yesterday… but here it is again…

Tank 1 – Yubase	56,030 bbl
Tank 2 -- Gasoline Blendstock	29,289
Tank 3 – Gasoline Blendstock	59,927
Tank 4 – Yubase	46,948
Tank 5 – Xylenes	38,330
Tank 6 – Gasoline Blendstock	48,147
Tank 7 – Pygas	42,680
Tank 8 – Naphtha	69,329
Tank 9 – Empty	
Tank 10 – Pygas	19,281
Tank 11 – SN115	61,260
Tank 12 -- Empty	
Tank 13 – Toluene	15,413
Tank 14 – Pygas	25,282
Tank 15 – Pygas	9,354

The 14 locations we specifically monitored at were the Superfund NPL sites that we were requested to monitor around, using the map / sites provided by the Dallas EOC

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

From: Crossland, Ronnie
Sent: Tuesday, March 19, 2019 7:02 AM
To: Mason, Steve <mason.steve@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>
Cc: Smith, Monica <smith.monica@epa.gov>
Subject: RE: Draft ITC update info you requested -- 03/19/2019

Steve,

Thanks, here are a couple of questions:

- What is the fire wall?
- Do we have original quantity of material for each tank?
- I would like to get a better understanding of timing of the data we are reporting. For example, are the 14 locations where we monitored last night?

Ronnie

From: Mason, Steve
Sent: Tuesday, March 19, 2019 5:17 AM
To: Delgado, Eric <Delgado.Eric@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>
Cc: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Smith, Monica <smith.monica@epa.gov>
Subject: Draft ITC update info you requested -- 03/19/2019

Intercontinental Terminals Company (ITC) Fire Morning Update
Deer Park, Texas
March 19, 2019

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC. It is anticipated that the fire will continue to take several days to burn out.

- As of 2:00 am, there are 8 tanks involved with the fire within the fire wall.

80-001	80-002	80-003	80-004	80-005	80-006	80-007	80-008
Flames in area YUBase 6	Engulfed (collapsed) Gas. Blendstock	Engulfed Buckling Gas. Blendstock	Manifold Fire YUBase 4 Plus	Flames on roof Xylenes/Mixed Xylene	Flames on roof Gasoline Blendstock	Not currently involved Pygas	Flames on top Naphtha

80-009	80-010	80-011	80-012	80-013	80-014	80-015
Collapsed Tank Empty	Not currently involved Pygas	Flames on roof SN115	Collapsed Tank Empty	Not currently involved Toluene	Not currently involved Pygas	Not currently involved Pygas

- Both the Deer Park and La Porte ISDs will be back open at normal times this morning (03/19).

- The Trace Atmospheric Gas Analyzer (TAGA) bus departed this morning and revised its arrival time to be on site by Thursday (3/21).

- The Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft found no exceedances of the Texas comparison values. ASPECT conducted a screening level assessment to evaluate the unreported or undetected releases of hazardous materials or contaminants at the Intercontinental Terminals Company in Deer Park, Texas on March 18, 2019. The screening level results from ASPECT were compared to the ASPECT list of Texas Commission on Environmental Quality (TCEQ) short-term Air Monitoring Comparison Values (AMCVs) and found no exceedances of the short-term AMCVs. 1-Butene, acetone,

isoprene, and 2-Butene were detected at or below 1 ppm at several hundred meters in the atmosphere.

- Instantaneous monitoring of volatile organic compounds (VOCs) continues to be conducted by the responsible party. As of noon on 03/18, CTEH had taken 153 readings for VOCs. There are still no readings above health action levels.

- Harris County Pollution Control is conducting air monitoring to address complaints that have been received by their office.

- 2 EPA contractor teams have completed air monitoring around the 14 identified Superfund NPL sites in Harris County to determine any effects of the plume at those sites, as well as taking readings downwind from the fire in various areas. No detections were identified.

- ITC continues to take hourly water samples at the ditch feeding into Tucker Bayou and sending the samples to an outside laboratory for analysis. Initial results are expected to become available between Wednesday and Friday. There is boom deployed in the ditch to capture the foam. Traces of foam have been observed in the ditch and Tucker Bayou by the U.S. Coast Guard.

The following is the current meeting schedule at the ITC EOC:

7:30 A.M.	CTEH Air Monitoring Report Release
7:30 A.M.	EPA / TCEQ Formal Update Brief from ITC
9:00 A.M. - 9:30 A.M.	Press Release Review (30 min. time frame for approval)
10:00 A.M.	ITC Press Conference
1:00 PM.	CTEH Air Monitoring Report Release
2:00 P.M. - 2:30 P.M.	Press Release Review (30 min. time frame for approval)
3:00 P.M.	EPA Formal Update Brief
3:30 P.M.	ITC Press Conference

Informal updates are being provided to TCEQ every three hours, or as the incident evolves.

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PB)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get turned and twisted around in my mouth. Often, this is a bad thing."

Message

Sent: 3/20/2019 10:05:01 AM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Draft ITC update info you requested -- 03/20/2019

Intercontinental Terminals Company (ITC) Fire Morning Update
Deer Park, Texas
March 20, 2019

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC.
- As of 3:00 am, ITC reported that all fires had been extinguished within the tanks. They are now in the process of cooling the tanks with water. Potential re-ignition is possible until all tanks have been sufficiently cooled. Unified Command recognizes the VOC levels may increase now that the fire has been extinguished.
- Several school districts had earlier decided to stay closed on Wednesday due to the ongoing fire-fighting efforts and plume issues.
- The Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft conducted a third flight over the ITC fire on March 19, 2019. Plume geometry was assessed with the aircraft with findings showing the plume was about 47 miles in length, 17 miles wide at the largest extent and ranged in altitude from a floor of 1500 feet to a ceiling of 5000 feet. No chemical detections were reported on this flight.
- ITC's contractor, CTEH, is monitoring for VOCs and BTEX under the plume downwind from the fire.
- EMSI has been contracted by ITC to supplement the CTEH monitoring and are utilizing a mobile air monitoring unit. At the request of Unified Command, EMSI is monitoring identified environmental justice areas as well as areas around schools in the downwind areas of the plume.
- 2 EPA contractor teams continue to monitor in areas downwind from the fire site. A few minor VOC readings have been detected, but below health action levels.
- ITC has placed double containment boom along Tucker Bayou. Skimmers are actively removing foam from the bayou and pumping the material into vacuum trucks and storing the material in frac tanks onsite.
- ITC has contracted with an incident management team to help manage the incident. One minor injury has been reported, resulting in a cut hand.
- Instantaneous monitoring of volatile organic compounds (VOCs) continues to be conducted by the responsible party. As of 2030 hours on 03/19, CTEH had taken 427 readings for VOCs, with 2 detections. There are still no readings above health action levels.
- ITC continues to take hourly water samples at the ditch feeding into Tucker Bayou and sending the samples to an outside laboratory for analysis. Initial results are expected to become available between Wednesday.
- USCG personnel continue to participate in Unified Command, focusing on water operations in Tucker Bayou

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PB)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Message

Sent: 3/20/2019 10:59:53 AM
To: Delgado, Paige [Delgado.Paige@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]
CC: Smith, Monica [smith.monica@epa.gov]
Subject: For Daily OPS Report -- 03/20/2019

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get turned and walk down to my mouth. Often, this is a bad thing."

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- As of 3:00 am, ITC reported that all fires had been extinguished within the tanks. They are now in the process of cooling the tanks with water. Potential re-ignition is possible until all tanks have been sufficiently cooled. Unified Command recognizes the VOC levels may increase now that the fire has been extinguished.
- Several school districts had earlier decided to stay closed on Wednesday due to the ongoing fire-fighting efforts and plume issues.
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- ITC's contractor, CTEH, is monitoring for VOCs and BTEX under the plume downwind from the fire.
- EMSI has been contracted by ITC to supplement the CTEH monitoring and are utilizing a mobile air monitoring unit. At the request of Unified Command, EMSI is monitoring identified environmental justice areas as well as areas around schools in the downwind areas of the plume.
- 2 EPA contractor teams continue to monitor in areas downwind from the fire site. A few minor VOC readings have been detected, but below health action levels.
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- ITC has contracted with an incident management team to help manage the incident. One minor injury has been reported, resulting in a cut hand.
- Instantaneous monitoring of volatile organic compounds (VOCs) continues to be conducted by the responsible party. As of 2030 hours on 03/19, CTEH had taken 427 readings for VOCs, with 2 detections. There are still no readings above health action levels.
- ITC continues to take hourly water samples at the ditch feeding into Tucker Bayou and sending the samples to an outside laboratory for analysis. Initial results are expected to become available between Wednesday. ,
- USCG personnel continue to participate in Unified Command, focusing on water operations in Tucker Bayou (booming and skimming of foam).

Message

From: Cook, David [David.Cook@WestonSolutions.com]
Sent: 4/4/2019 1:29:00 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: RE: ITC Fire Delivery - Reporting Period #28

Done. You're welcome!

David Cook
START R6 IT/Data Management Lead
Weston Solutions, Inc.
(469) 666-5505 Direct
(512) 970-8836 Cell

From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Thursday, April 4, 2019 8:08 AM
To: Cook, David <David.Cook@WestonSolutions.com>
Subject: Re: ITC Fire Delivery - Reporting Period #28

**** External Email ****
David

I have demobed so you can take me off the list

Thanks for all you did

Sent from my iPhone

On Apr 4, 2019, at 6:00 AM, Cook, David <David.Cook@westonsolutions.com> wrote:

> Please find the attached maps and table.
>
> There are 64 air monitoring locations in this reporting period. Three locations had detects.
>
> 11 water samples this reporting period.
>
> Thanks,
>
> ***David Cook***
> ***START R6 IT/Data Management Lead***
> **Weston Solutions, Inc.**
> (469) 666-5505 Direct
> (512) 970-8836 Cell
>
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>
> <ITC TAGA MAP - RP28.pdf>
>
> <ITC AIR MONITORING AND ASPECT MAP - RP28.pdf>
>
> <Monitoring - Reporting Period 28.xlsx>

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Contact

Full Name: ITC Incident

E-mail: itcincident@iterm.com

Contact

Full Name: Mike Taylor

E-mail: mtaylor@iterm.com

Contact

Full Name: Jane Chaya

E-mail: JCHAYA@iterm.com

Contact

Full Name: David Wascome

E-mail: Dwascome@iterm.com

Contact

Full Name: ITC Cares

E-mail: ITCCares@iterm.com

Contact

Full Name: Mike Gaudet

E-mail: MGaudet@iterm.com

Contact

Full Name: Bob Pennacchi

E-mail: BPENNACCHI@iterm.com

Message

From: Curry, Tim [Curry.Timothy@epa.gov]
Sent: 4/3/2019 6:16:47 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: RE: ASPECT update 8 - Kemco fire response

Lucky you.
You are off the list.

From: Mason, Steve
Sent: Wednesday, April 03, 2019 1:06 PM
To: Curry, Tim <Curry.Timothy@epa.gov>
Subject: Re: ASPECT update 8 - Kemco fire response

I have demobed so you can take off distribution list

Keep up the great work

Sent from my iPhone

On Apr 3, 2019, at 8:50 AM, Curry, Tim <Curry.Timothy@epa.gov> wrote:

> Team,
>
> The aircraft has taken off. The estimated time over target is 0900. If there are any questions or requests to add let me know.
>
> Timothy Curry, PE
> EPA OLEM/OEM/CMAD/FOB
> 11201 Renner Blvd.
> Lenexa, Ks. 66219
> Office Phone (913)551-5129
> Cell Phone (816)718-4281
>
> **From:** Curry, Tim
> **Sent:** Wednesday, April 03, 2019 8:28 AM
> **To:** Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>

Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 7 - Kemco fire response

Team,
We are planning a post event screening flight over the KMCO facility for the first part of a mixed-mission flight today. The crew is planning to be airborne at approximately 0900 am. They will proceed first to the KMCO site and collect data. We will do the initial processing and review of results. Once they are released from the KMCO mission they will restart the mission files to change to the ITC site data acquisitions. If you have any questions please call my cell phone.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Tuesday, April 02, 2019 5:19 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; David Cook <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; b.latham@westonsolutions.com; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; Turville, Rick <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 6 - Kemco fire response

Team,

Attached is the draft report for the KMCO response conducted earlier today. If you identify some comments or edits that are needed please let me know. A site specific link with the data set is in the process of being built. Once it is ready for review I will include it in a later update. Call my cell phone if you have any questions or requests.

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Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 5 - Kemco fire response

Team,
The last pass between the site and the school had one single scan with a detect of isobutylene. That detect was close to the site. This information was relayed to the OSC at the event. We have released the aircraft to return to Ellington. They will upload the data for final processing and reporting. Attached is the flight line image and kml and an oblique photo from the early portion of the flight. Please call my cell if you have questions.

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Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 4 - Kemco fire response

Team,
Attached are multiple files for the ASPECT FTIR detections including the kml's for Google Earth and the shape files for arcview. We will continue to hold the aircraft in the area for further direction.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 2:04 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 3 - Kemco fire response

Team,

Data acquisition passes between site and school have had a few detections for ammonia. Concentration is less than the pass over the site and just above our detection limit of 1ppm. We will hold the plane in the area for further orders. Attached is an infrared line scanner image and aerial photo image for a pass between the site and what is believed to be the nearby school to the southwest.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 1:46 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; David Cook <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; b.latham@westonsolutions.com; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; Turville, Rick <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 2 - Kemco fire response

Team,

Winds are light and plume is rising vertically mostly. Some detects from pass directly over site indicate ammonia, isobutylene, butene, isoprene and acetone appear to be present. Concentrations near fire have been below 5ppm so far. One pass between school and site showed no automated detects. Still collecting data between school and plant. Will update as info comes available.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 12:28 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve

<mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: ASPECT update 1 - Kemco fire response

Team,

The aircrew has been given the order to deploy. The proximity to the Deer Park event will mean they will be acquiring data on the event beginning in roughly 30 minutes. Please call my cell with any questions or directives.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

Message

From: Mike Gaudet [MGaudet@iterm.com]
Sent: 4/4/2019 9:10:24 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: RE: 20190404_4 Apr 2019 - CTEH Community Report: 4/3 - 4/4

Congrats to you on that! I meant to do so, but it's easy to just hit reply all...

Will try hard to remember tomorrow.

-----Original Message-----
From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Thursday, April 04, 2019 4:03 PM
To: Mike Gaudet
Subject: Re: 20190404_4 Apr 2019 - CTEH Community Report: 4/3 - 4/4

Hey mike

Since I have demobed you can take me off your list

Take care. It was a pleasure working with you and your team

Sent from my iPhone

> On Apr 4, 2019, at 2:56 PM, Mike Gaudet <MGaudet@iterm.com> wrote:
>
> Please find attached the latest CTEH community report. Please review and advise.
>
> Any monitoring data that exceeds action levels agreed upon in UC/monitoring meetings should be immediately reported by telephone to (832) 493-8041.
>
> Information for the email inbox is as follows:
> Email address for submittal: air2@iterm.com<mailto:air2@iterm.com>
>
> Access to the email box:
> Web access: https://owa.iterm.com/owa
> Username: air2
> Password: 1nc1d3nt!
>
> Michael Gaudet
> Environmental Compliance Manager
> Intercontinental Terminals Company LLC
> 1943 Independence Pkwy S. | LaPorte, TX 77571
> D: 281.884.0360
> C: 281.787.8256
> mgaudet@iterm.com<mailto:mgaudet@iterm.com>
>
>
>
>
>
>
> <111356 - Deer Park Tank Fire Air Monitoring Summary 2019-04-04.pdf>

Message

From: Reid McLelland [RMcLelland@iterm.com]
Sent: 4/5/2019 6:58:10 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: RE: 20190403 Water Sampling
Attachments: ATT00001.txt

Got it, will do.

From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Wednesday, April 03, 2019 8:28 PM
To: Reid McLelland
Subject: RE: 20190403 Water Sampling

Hi Reid…

I have demobed from this response, so you can delete me off the distribution list for this information…

Thanks so much

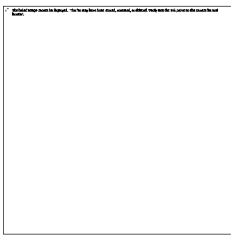
With Regards, Steve

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Wednesday, April 03, 2019 5:33 PM
To: Adams, Adam <Adams.Adam@epa.gov>; 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; Mason, Steve <mason.steve@epa.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: 20190403 Water Sampling

See attached latest water sampling results.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567

rmclelland@iterm.com



every action counts

"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Contact

Full Name: ITC Incident

E-mail: itcincident@iterm.com

Contact

Full Name: Mike Gaudet

E-mail: MGaudet@iterm.com

Message

From: mason.steve@epa.gov [mason.steve@epa.gov]
Sent: 4/3/2019 6:06:18 PM
To: Curry, Tim [Curry.Timothy@epa.gov]
Subject: Re: ASPECT update 8 - Kemco fire response

I have demobed so you can take off distribution list

Keep up the great work

Sent from my iPhone

On Apr 3, 2019, at 8:50 AM, Curry, Tim <Curry.Timothy@epa.gov> wrote:

> Team,
>
> The aircraft has taken off. The estimated time over target is 0900. If there are any questions or requests to add let me know.
>
> Timothy Curry, PE
> EPA OLEM/OEM/CMAD/FOB
> 11201 Renner Blvd.
> Lenexa, Ks. 66219
> Office Phone (913)551-5129
> Cell Phone (816)718-4281
>
> **From:** Curry, Tim
> **Sent:** Wednesday, April 03, 2019 8:28 AM
> **To:** Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
> **Cc:** Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
> **Subject:** RE: ASPECT update 7 - Kemco fire response
>
> Team,
> We are planning a post event screening flight over the KMCO facility for the first part of a mixed-mission flight today. The crew is planning to be airborne at approximately 0900 am. They will proceed first to the KMCO site and collect data. We will do the initial processing and review of results. Once they are released from the KMCO mission they will restart the mission files to change to the ITC site data acquisitions. If you have any questions please call my cell phone.

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Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 6 - Kemco fire response

Team,

Attached is the draft report for the KMCO response conducted earlier today. If you identify some comments or edits that are needed please let me know. A site specific link with the data set is in the process of being built. Once it is ready for review I will include it in a later update. Call my cell phone if you have any questions or requests.

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<Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 5 - Kemco fire response

Team,
The last pass between the site and the school had one single scan with a detect of isobutylene. That detect was close to the site. This information was relayed to the OSC at the event. We have released the aircraft to return to Ellington. They will upload the data for final processing and reporting. Attached is the flight line image and kml and an oblique photo from the early portion of the flight. Please call my cell if you have questions.

Timothy Curry, PE
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Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 4 - Kemco fire response

Team,
Attached are multiple files for the ASPECT FTIR detections including the kml's for Google Earth and the shape files for arcview. We will continue to hold the aircraft in the area for further direction.

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<Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 3 - Kemco fire response

Team,

Data acquisition passes between site and school have had a few detections for ammonia. Concentration is less than the pass over the site and just above our detection limit of 1ppm. We will hold the plane in the area for further orders. Attached is an infrared line scanner image and aerial photo image for a pass between the site and what is believed to be the nearby school to the southwest.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 1:46 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; David Cook <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; b.latham@westonsolutions.com; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; Turville, Rick <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 2 - Kemco fire response

Team,

Winds are light and plume is rising vertically mostly. Some detects from pass directly over site indicate ammonia, isobutylene, butene, isoprene and acetone appear to be present. Concentrations near fire have been below 5ppm so far. One pass between school and site showed no automated detects. Still collecting data between school and plant. Will update as info comes available.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 12:28 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: ASPECT update 1 - Kemco fire response

Team,

The aircrew has been given the order to deploy. The proximity to the Deer Park event will mean they will be acquiring data on the event beginning in roughly 30 minutes. Please call my cell with any questions or directives.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

Message

From: mason.steve@epa.gov [mason.steve@epa.gov]
Sent: 4/4/2019 9:02:46 PM
To: Mike Gaudet [MGaudet@iterm.com]
Subject: Re: 20190404_4 Apr 2019 - CTEH Community Report: 4/3 - 4/4

Hey mike

Since I have demobed you can take me off your list

Take care. It was a pleasure working with you and your team

Sent from my iPhone

> On Apr 4, 2019, at 2:56 PM, Mike Gaudet <MGaudet@iterm.com> wrote:
>
> Please find attached the latest CTEH community report. Please review and advise.
>
> Any monitoring data that exceeds action levels agreed upon in UC/monitoring meetings should be immediately reported by telephone to (832) 493-8041.
>
> Information for the email inbox is as follows:
> Email address for submittal: air2@iterm.com<mailto:air2@iterm.com>
>
> Access to the email box:
> Web access: https://owa.iterm.com/owa
> Username: air2
> Password: 1nc1d3nt!
>
> Michael Gaudet
> Environmental Compliance Manager
> Intercontinental Terminals Company LLC
> 1943 Independence Pkwy S. | LaPorte, TX 77571
> D: 281.884.0360
> C: 281.787.8256
> mgaudet@iterm.com<mailto:mgaudet@iterm.com>
>
>
>
>
>
>
> <111356 - Deer Park Tank Fire Air Monitoring Summary 2019-04-04.pdf>

Message

Sent: 5/20/2019 2:35:08 AM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Rouse, Philip [rouse.philip@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Draft ITC update info you requested -- 04/03/2019
Attachments: 20190402 Waste Tank Locations 2030.jpg

- The Environmental Protection Agency (EPA) continues to participate in Unified Command with Texas Commission on Environmental Quality (TCEQ), Harris County Pollution Control Services, and ITC.
- The number and amount of benzene detections has continued to decrease throughout the past two days, due to the continue removal of product from tanks and the tank farm, as well as continued use of foam as needed.
- Pumping of Tank 80-7 was initiated on April 2 and continued through the early morning of April 3. Vacuuming of Tank 80-10 was completed on April 2.
- The flushing plan for Tucker Bayou developed by EPA, TCEQ, USCG, and ITC was approved by Unified Command on April 2. Flushing operations will begin on the morning of April 3.
- A conference call was conducted on April 2 with TCEQ, EPA, ITC, and NOAA regarding the uncompleted environmental plans. An improved system will be established for document distribution and control, including nomenclature, document date, version number, developer, and distribution list.
- TCEQ and EPA provided comments on the Waste Water Treatment Plant (WWTP) and the Waste Handling and Interim Storage Plan to ITC representatives on April 2.
- EPA, ITC, and TCEQ discussed on the evening of April 2 on how the upcoming rain forecast may affect waste handling and accumulation. The WWTP statement, developed by TCEQ and agreed upon by EPA, was provided to ITC.
- ITC provided EPA and TCEQ a map on April 2 on where wastes from this incident is currently being stored (see attached).
- Several entities including Texas Commission on Environmental Quality (TCEQ), EPA, and ITC continue to conduct air monitoring around the tank farm, in adjoining industrial areas, and communities downwind from the facility.
- ITC continued air monitoring on April 2 (midnight to midnight); there were 4,266 VOC readings (770 detections) with and 2,955 benzene readings (619 detections).
- EPA continued mobile air monitoring on April 2 (24 hour) at ___ locations. There were ___ detections, with ___ detection above the action level noted.
- The Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft found no exceedances of the Texas comparison values on April 2. ASPECT has conducted a screening level assessment to evaluate the unreported or undetected releases of hazardous materials or contaminants at the ITC in Deer Park, Texas. The screening level results from ASPECT were compared to the ASPECT list of TCEQ short-term Air Monitoring Comparison Values (AMCVs) and found no exceedances of the short-term AMCVs. Infrared and photographic data collected over the confluence area at Tucker and Buffalo Bayous indicated that product continues to be present in the boom network with some leakage in the northeast section.
- EPA conducted air sampling using the Trace Atmospheric Gas Analyzer (TAGA) on April 2, 2019. TAGA analyzed air samples for benzene, toluene and xylene down wind of the site.
- EPA conducted surface water sampling on April 2, 2019, at ten sample locations. Samples were collected from upstream of the confluence of Buffalo Bayou and the San Jacinto River (in the Old River at River Terrace Park and at the shoreline of Juan Sequin Historic Park), in the main channel of the San Jacinto River (upstream of the confluence with Buffalo Bayou), and downstream in the San Jacinto River. The surface water samples will be analyzed for Per- and polyfluoroalkyl substances, Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Chemical Oxygen Demand (COD), and Oil & Grease.
- TCEQ continued handheld air monitoring on April 2 from 12:00 am to 10:00; approximately 152 readings were taken. No readings above the Unified Command action level were detected.
- Vacuum truck operations at Tucker Bayou and the outfall ditch continue on 24 hour basis.
- As of 7:00 pm on Tuesday, April 2:

- 128,500 feet of boom deployed
- 72,703 bbl of product/water recovered from water operations
- 97,239 bbl of product/water recovered from tank farm
- 128 cubic yards of contaminated solids
- Approximately 468,000 gallons of foam concentrate used for fire-fighting/suppression and emission suppression
- **1,938** people working on-scene (field, command post)
- Total vessels: 310
  - 111 work boats
  - 102 barges
  - 25 small capacity skimming vessel
  - 72 skimmers
- Vacuum trucks: 26

Tank Status as 3:00 am on April 3, 2019

Tank #		Original Volume	Updated Volume	Status
80 – 1	Base Oil	48,713 bbls	4,522 bbls	Standby
80 – 2	Gasoline Blendstock	38,451 bbls	0 bbls	Complete
80 – 3	Gasoline Blendstock	33,200 bbls	0 bbls	Complete
80 – 4	Base Oil	34,808 bbls	7,393 bbls	Standby
80 – 5	Xylenes	35,502 bbls	6,529 bbls	Standby
80 – 6	Gasoline Blendstock	48,147 bbls	n/a	Standby
80 – 7	Py Gas	42,680 bbls	Empty	Complete
80 – 8	Naptha	69,482 bbls	9,072 bbls	Standby
80 – 9	EMPTY	Empty	Empty	Standby
80 - 10	Py Gas	14,294 bbls	2,207 bbls	Complete
80 - 11	Base Oil	51,741 bbls	21,313 bbls	Standby
80 - 12	EMPTY	Empty	Empty	Complete
80 - 13	Toluene	13,854 bbls	0 bbls	Complete
80 - 14	Py Gas	13,837 bbls	0 bbls	Complete
80 - 15	Py Gas	9,354 bbls	0 bbls	Complete

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get turned and walk down to my mouth. Often, this is a sad thing."

Message

Sent: 3/27/2019 9:27:46 AM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Draft ITC update info you requested -- 03/27/2019

Intercontinental Terminals Company (ITC) Fire Morning Update
Deer Park, Texas
March 27, 2019

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC.
- TCEQ took an overflight to observe the impacted tank farm, Tucker Bayou, and the Houston Ship Channel. The team observed a few pockets of material that had not been addressed by USCG or ITC. USCG has been made aware of these areas and are addressing the spots.
- TCEQ discussed concerns with re-starting the Waste Water Treatment Plant (WWTP). ITC will address those concerns before re-starting.
- Currently tank 80-7 is empty of product but has foam layer. Tank 80-10, 80-14 and 80-15 are all being marked as empty by the incident commander. 80-13 has lost suction and is currently being assessed to determine emptiness.
- The documentation plan was revisited with ITC and comments were provided by EPA and TCEQ. TCEQ legal will again review for additional comments.
- EPA and TCEQ discussed the status with ITC Incident Command, with potential flushing as an option. This will be discussed with USCG, EPA, and TCEQ further in the morning.
- Foaming of the secondary containment to prevent reignition and reduce emissions continues as necessary.
- Several entities including Harris County, Texas Commission on Environmental Quality (TCEQ), EPA, the 6th Civil Support Team, and ITC continue to conduct air monitoring around the tank farm, in adjoining industrial areas, and communities downwind from the facility.
- ITC continued air monitoring on March 26 (midnight to midnight); there were 2,612 VOC readings (481 detections) with and 1,785 benzene readings (355 detections). There continues to be readings above the action levels for benzene close to the tank farm on Tidal Road, and by Dock 4 on Buffalo Bayou.
- EPA continued mobile air monitoring on March 26 (12:00 pm) to March 26 (midnight) at ____ locations. There were 0 detections above the action level noted.
- ASPECT conducted flight 12 on March 26. Imagery collected on this flight indicates that the NW tanks in the tank farm are cooler than on previous flights. IR data collected over the confluence into the ship channel continues to show sheen in the waterway. Similar analysis of visible imagery tends to show much less sheen. No significant chemical detections were observed on this flight.
- EPA's TAGA Mobile laboratory continued monitoring during the day of March 26.
- EPA collected 11 water samples on March 26; nine of the samples were collected from previously sampled locations in Buffalo Bayo, and southwest of Crystal Bay; two of the samples came from new locations near Lynchburg Reservoir
- TCEQ continued handheld air monitoring between 2:00 pm and 10:00 pm on March 26 (34 readings). No significant readings were detected.
- Unified Command developed, reviewed, and approved the Incident Action Plan (#5) for the next operational period.
- Vac truck operations at Tucker Bayou and the outfall ditch continue on 24 hour basis.

Tank Status as 4:00 am on March 27, 2019

Tank #		Original Volume	Updated Volume	Flow rate	Transfer Method	Status	Notes
80 – 1	Base Oil	48,713 bbls	4,522 bbls			Standby	
80 – 2	Gasoline Blendstock	38,451 bbls	5,437 bbls			Standby	

80 – 3	Gasoline Blendstock	33,200 bbls	5,441 bbls			Standby	Being evaluated
80 – 4	Base Oil	34,808 bbls	7,393 bbls			Standby	
80 – 5	Xylenes	35,502 bbls	6,529 bbls			Standby	
80 – 6	Gasoline Blendstock	48,147 bbls	n/a			Standby	
80 – 7	Py Gas	42,680 bbls	Empty		Submersible pump	Complete	
80 – 8	Naptha	69,482 bbls	9,072 bbls			Standby	
80 – 9	EMPTY	Empty	Empty			Standby	
80 - 10	Py Gas	14,294 bbls	2,207 bbls	553 bbl/hr	Complete	Standby	
80 - 11	Base Oil	51,741 bbls	51,671 bbls			Standby	
80 - 12	EMPTY	Empty	Empty			Complete	
80 - 13	Toluene	13,854 bbls	11,561 bbls	123 bbl/hr		Active	
80 - 14	Py Gas	13,837 bbls	264 bbls		Inline System	Complete	
80 - 15	Py Gas	9,354 bbls	Empty			Complete	

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PB)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Contact

Full Name: mtsru.itc.fire@gmail.com

E-mail: mtsru.itc.fire@gmail.com

Contact

Full Name: Mike Gaudet

E-mail: MGaudet@iterm.com

Message

From: mason.steve@epa.gov [mason.steve@epa.gov]
Sent: 4/1/2019 12:36:03 PM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Re: Draft ITC update info you requested -- 04/01/2019

Can you add a bullet

EPA and tceq signed off on unified command Worker Exposure Assessment Plan, which is part of the overall HASP for the response

Thanks

Sent from my iPhone

On Apr 1, 2019, at 6:18 AM, Mason, Steve <mason.steve@epa.gov> wrote:

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC.
- At approximately 2:00 am on April 1, Dow Chemical reported they had sheltered their facility due to elevated benzene readings; just slightly over 1.0 ppm benzene detected. At 1:30 pm on March 31, Nouryon Facility (730 Independence Parkway) (lifted at 6:00 pm) and Geo Specialty Chemicals (739 Independence Parkway) self-sheltered in place (lifted at 5:00 pm).
- The Executive Director of the TCEQ (Toby Baker), as well as the Commander of the USCG 8th District (Paul Thomas), and acting EPA Regional Administrator David Gray will be visiting the site on Monday, April 1. EPA has coordinated with the On-Scene Coordinator and the Joint Information Center of the visit / itinerary.
- An additional 57,000-barrel liquid waste collection barge arrived on March 31. This barge will be in addition to the existing two 30,000-barrel barges currently in use.
- The Harris County Fire Marshal's Office will begin their fire investigation on April 2. They will control access to the tank farm but operations to remove product and waste from the tank farm and secondary containment area will continue.
- Pumping of Tank 11 stopped at approximately 4:00 pm on March 31 until additional storage capacity is secured.
- Foaming of the secondary containment to prevent reignition and reduce emissions continues as necessary.
- Several entities including Texas Commission on Environmental Quality (TCEQ), EPA, and ITC continue to conduct air monitoring around the tank farm, in adjoining industrial areas, and communities downwind from the facility.
- ITC continued air monitoring on March 31 (midnight to midnight); there were 2,238 VOC readings (476 detections) with and 2,238 benzene readings (516 detections).
- EPA continued mobile air monitoring on March 31 (24 hour) at 41 locations. There were 25 detections, with 1 detection above the action level noted.
- ASPECT conducted flight 16 on March 31; all structures in the tank farm. were found to be at ambient temperature. Infrared and photographic data collected over the confluence area indicated that product continues to be present in the boom network with some leakage observed pushed against the ship channel boom. No compound detections were observed on this mission.

- EPA conducted air sampling using the Trace Atmospheric Gas Analyzer (TAGA) on March 31, 2019. TAGA analyzed air samples for benzene, toluene and xylene down wind of the site.
- No EPA surface water sampling was conducted on March 31 due to weather conditions. Sampling will resume on Monday, April 1.
- TCEQ continued handheld air monitoring on March 31 from 12:00 am to 10:00; approximately 163 readings were taken. No readings above the Unified Command action level were detected.
- Vacuum truck operations at Tucker Bayou and the outfall ditch continue on 24 hour basis.
- As of 6:00 pm on Sunday, March 31:
    - 116,400 feet of boom deployed
    - 62,577 bbl of product/water recovered from water operations
    - 69,958 bbl of product/water recovered from tank farm
    - Approximately 460,000 gallons of foam concentrate used for fire-fighting/suppression and emission suppression
    - 969 people working on-scene (field, command post)

Tank Status as 3:00 am on April 1, 2019

Tank #		Original Volume	Updated Volume	Flow rate	Transfer Method	Status	Notes
80 – 1	Base Oil	48,713 bbls	4,522 bbls			Standby	
80 – 2	Gasoline Blendstock	38,451 bbls	0 bbls			Complete	
80 – 3	Gasoline Blendstock	33,200 bbls	0 bbls			Complete	
80 – 4	Base Oil	34,808 bbls	7,393 bbls			Standby	
80 – 5	Xylenes	35,502 bbls	6,529 bbls			Standby	
80 – 6	Gasoline Blendstock	48,147 bbls	n/a			Standby	
80 – 7	Py Gas	42,680 bbls	Empty			Complete	
80 – 8	Naptha	69,482 bbls	9,072 bbls			Standby	
80 – 9	EMPTY	Empty	Empty			Standby	
80 - 10	Py Gas	14,294 bbls	2,207 bbls			Complete	
80 - 11	Base Oil	51,741 bbls	31,559 bbls			Standby	
80 - 12	EMPTY	Empty	Empty			Complete	
80 - 13	Toluene	13,854 bbls	0 bbls			Complete	
80 - 14	Py Gas	13,837 bbls	0 bbls		Inline System	Complete	
80 - 15	Py Gas	9,354 bbls	0 bbls			Complete	

With Regards, Steve

<image002.jpg>

Contact

Full Name: ITC Incident

E-mail: itcincident@iterm.com

Contact

Full Name: PasadenaOperationsCopier@iterm.com

E-mail: PasadenaOperationsCopier@iterm.com

Message

Sent: 4/1/2019 9:21:58 AM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Draft ITC update info you requested -- 04/01/2019

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC.
- At approximately 2:00 am on April 1, Dow Chemical reported they had sheltered their facility due to elevated benzene readings; just slightly over 1.0 ppm benzene detected. At 1:30 pm on March 31, Nouryon Facility (730 Independence Parkway) (lifted at 6:00 pm) and Geo Specialty Chemicals (739 Independence Parkway) self-sheltered in place (lifted at 5:00 pm).
- The Executive Director of the TCEQ (Toby Baker), as well as the Commander of the USCG 8th District (Paul Thomas), and acting EPA Regional Administrator David Gray will be visiting the site on Monday, April 1. EPA has coordinated with the On-Scene Coordinator and the Joint Information Center of the visit / itinerary.
- An additional 57,000-barrel liquid waste collection barge arrived on March 31. This barge will be in addition to the existing two 30,000-barrel barges currently in use.
- The Harris County Fire Marshal's Office will begin their fire investigation on April 2. They will control access to the tank farm but operations to remove product and waste from the tank farm and secondary containment area will continue.
- Pumping of Tank 11 stopped at approximately 4:00 pm on March 31 until additional storage capacity is secured.
- Foaming of the secondary containment to prevent reignition and reduce emissions continues as necessary.
- Several entities including Texas Commission on Environmental Quality (TCEQ), EPA, and ITC continue to conduct air monitoring around the tank farm, in adjoining industrial areas, and communities downwind from the facility.
- ITC continued air monitoring on March 31 (midnight to midnight); there were 2,238 VOC readings (476 detections) with and 2,238 benzene readings (516 detections).
- EPA continued mobile air monitoring on March 31 (24 hour) at ___ locations. There were ____ detections, with ___ detections above the action level noted.
- ASPECT conducted flight 16 on March 31; all structures in the tank farm. were found to be at ambient temperature. Infrared and photographic data collected over the confluence area indicated that product continues to be present in the boom network with some leakage observed pushed against the ship channel boom. No compound detections were observed on this mission.
- EPA conducted air sampling using the Trace Atmospheric Gas Analyzer (TAGA) on March 31, 2019. TAGA analyzed air samples for benzene, toluene and xylene down wind of the site.
- No EPA surface water sampling was conducted on March 31 due to weather conditions. Sampling will resume on Monday, April 1.
- TCEQ continued handheld air monitoring on March 31 from 12:00 am to 10:00; approximately 163 readings were taken. No readings above the Unified Command action level were detected.
- Vacuum truck operations at Tucker Bayou and the outfall ditch continue on 24 hour basis.
- As of 6:00 pm on Sunday, March 31:
    - 116,400 feet of boom deployed
    - 62,577 bbl of product/water recovered from water operations
    - 69,958 bbl of product/water recovered from tank farm
    - Approximately 460,000 gallons of foam concentrate used for fire-fighting/suppression and emission suppression
    - 969 people working on-scene (field, command post)

Tank Status as 3:00 am on April 1, 2019

Tank #		Original Volume	Updated Volume	Flow rate	Transfer Method	Status	Notes
80 – 1	Base Oil	48,713 bbls	4,522 bbls			Standby	

80 – 2	Gasoline Blendstock	38,451 bbls	0 bbls			Complete	
80 – 3	Gasoline Blendstock	33,200 bbls	0 bbls			Complete	
80 – 4	Base Oil	34,808 bbls	7,393 bbls			Standby	
80 – 5	Xylenes	35,502 bbls	6,529 bbls			Standby	
80 – 6	Gasoline Blendstock	48,147 bbls	n/a			Standby	
80 – 7	Py Gas	42,680 bbls	Empty			Complete	
80 – 8	Naptha	69,482 bbls	9,072 bbls			Standby	
80 – 9	EMPTY	Empty	Empty			Standby	
80 - 10	Py Gas	14,294 bbls	2,207 bbls			Complete	
80 - 11	Base Oil	51,741 bbls	31,559 bbls			Standby	
80 - 12	EMPTY	Empty	Empty			Complete	
80 - 13	Toluene	13,854 bbls	0 bbls			Complete	
80 - 14	Py Gas	13,837 bbls	0 bbls		Inline System	Complete	
80 - 15	Py Gas	9,354 bbls	0 bbls			Complete	

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get boxed and work down to my mouth. Often, this is a bad thing."

Message

Sent: 5/11/2019 7:22:51 PM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Draft ITC update info you requested -- 03/26/2019
Attachments: 20190325 Compiled SCAT Map.jpg; 20190325 SCAT Map.jpg

Intercontinental Terminals Company (ITC) Fire Morning Update
Deer Park, Texas
March 26, 2019

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC.
- EPA is developing an Emergency Funding Authorization (EFA) for both the United States Coast Guard (USCG) and the National Oceanic and Atmospheric Administration (NOAA) to continue funding for operations.
- Late on March 25, USCG expressed concerns about holding material on the skimmers due to a potential fire hazard. TCEQ, EPA, and USCG agreed to allow ITC to remove the material from the skimmer vessels and be placed in barges that will go off for disposal to a TCEQ authorized disposal facility.
- ITC has requested to start releasing its wastewater from its permitted Waste Water Treatment Plant (WWTP). This would be already treated water that is not related to the incident. USCG, TCEQ, and EPA have agreed as long as it does not impact recovery efforts on Tucker Bayou. USCG has requested that the flow be kept at a low rate and to ensure that the ditch with foam will not have any adverse reactions to it.
- EPA and TCEQ provided comments on the Waste Management Plan to ITC in the evening of March 25.
- A 3-man entry team entered the tank farm in the evening of March 25 to determine the viability of the valves Tanks 80-14 and 80-15. The team was able to open the sump valve on Tank 80-10.
- Foaming of the secondary containment to prevent reignition and reduce emissions continues as necessary.
- ITC is beginning to see a decrease in benzene detections in the immediate tank farm area. EPA has requested ITC develop a visual aid (chart) that displays the number of readings, detections, and action level detections of benzene on a daily basis.
- Several entities including Harris County, Texas Commission on Environmental Quality (TCEQ), EPA, the 6th Civil Support Team, and ITC continue to conduct air monitoring around the tank farm, in adjoining industrial areas, and communities downwind from the facility.
- ITC continued air monitoring on March 25 (midnight to midnight); there were 2,000 VOC readings (427 detections) with and 1,684 benzene readings (388 detections). There continues to be readings above the action levels for benzene close to the tank farm on Tidal Road, and by Dock 4 on Buffalo Bayou.
- EPA continued mobile air monitoring on March 25 (12:00 pm) to March 25 (midnight) at 45 locations. There were 0 detections above the action level noted.
- EPA ASPECT
- EPA's TAGA Mobile laboratory continued monitoring during the day of March 25.
- EPA collected 9 water samples on March 25; collected from previously sampled locations in Buffalo Bayou, Lynchburg Reservoir, and southwest of Crystal Bay.
- TCEQ continued handheld air monitoring between 2:00 pm and 10:00 pm on March 25 (36 readings). No significant readings were detected.
- Unified Command developed, reviewed, and approved the Incident Action Plan (#4) for the next operational period.
- The Rapid Assessment Team (RAT) is scheduled to continue assessments along the Bayou shorelines on March 26. OSC Fisher will accompany the team (summary map from March 25 is attached).
- The United States Coast Guard (USCG) Captain of the Port will open the Ship Channel at 8:00 am on March 26. Decontamination vessels to help ships that may have residue on the hulls are being positioned.
- Vac truck operations at Tucker Bayou continue on 24 hour basis.
- Reported by ITC in a press release issued late on March 25:

- Personnel currently assigned: 661
- Fire-fighting equipment: 64
- Product removal vehicles: 20
- Vessels assigned: 45
- Boom deployed: 27,000 feet
- Skimmers have recovered more than 1.299 million gallons of oil/water mixture

Tank Status as 4:00 am on March 26, 2019

Tank #		Original Volume	Updated Volume	Flow rate	Transfer Method	Status	Notes
80 - 1	Base Oil	48,713 bbls	4,522 bbls			Standby	
80 - 2	Gasoline Blendstock	38,451 bbls	5,437 bbls			Standby	
80 - 3	Gasoline Blendstock	33,200 bbls	5,441 bbls			Standby	
80 - 4	Base Oil	34,808 bbls	7,393 bbls			Standby	
80 - 5	Xylenes	35,502 bbls	6,529 bbls			Standby	
80 - 6	Gasoline Blendstock	48,147 bbls	n/a			Standby	
80 - 7	Py Gas	42,680 bbls	4,461 bbls	500 bbls/hr	Submersible pump	Active	
80 - 8	Naptha	69,482 bbls	9,072 bbls			Standby	
80 - 9	EMPTY	Empty	Empty			Standby	
80 - 10	Py Gas	14,294 bbls	6,160 bbls	553	Inline System	Standby	
80 - 11	Base Oil	51,741 bbls	51,671 bbls			Standby	
80 - 12	EMPTY	Empty	Empty			Complete	
80 - 13	Toluene	13,854 bbls	13,356 bbls			Standby	Being evaluated
80 - 14	Py Gas	13,837 bbls	267 bbls	560 bbls/hr	Inline System	Active	
80 - 15	Py Gas	9,354 bbls	Empty			Complete	

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Message

From: mason.steve@epa.gov [mason.steve@epa.gov]
Sent: 3/25/2019 5:59:41 AM
To: Kendra Bernhagen [Kendra.Bernhagen@tceq.texas.gov]
Subject: Re: End of Shift Update_03.2.2019_Kendra Bernhagen, and Jason Ybarra

Finally showed. You're great

Sent from my iPhone

On Mar 25, 2019, at 12:55 AM, Kendra Bernhagen <Kendra.Bernhagen@tceq.texas.gov> wrote:

I remembered! ☺

From: Kendra Bernhagen
Sent: Monday, March 25, 2019 12:47 AM
To: Guadalupe Quiroz; Alma Jefferson; Kevin McLeod; Todd Thompson
Cc: Tina Tran; Jason Ybarra
Subject: End of Shift Update_03.2.2019_Kendra Bernhagen, and Jason Ybarra

End of Shift Update_03.2.2019_Kendra Bernhagen, and Jason Ybarra

- TCEQ requested that the daily progress report be provided to Spill12 at 2300 hours daily.
- TCEQ requested that a table be created tracking the progress of the tank farm and be distributed to the TCEQ distribution list. This will be provided every 4 hours. (Task has been completed and followed through with).
- Planning meeting began at 1600 hours.
- Pumping actions resumed at 1515 hours on tank 80-7 to tank 80-18. Tank 80-10 is being evaluated for transfer, and tank 80-14 began pumping at 1600 hours and stopped at 2209 due to a pump shutoff, currently on standby.
- USCG was working on recovering a 60 x 60 ft pocket of material that was found in the Peggy Lake area.
- Nothing has been observed by USCG past Patrick Bayou at the time of this update.
- The Baytown Nature Center was still under evaluation by USCG.
- The operations branch has now been broken up into 5 divisions. Please see the attached map for divisions.
- ITC is maintaining 2 feet of foam within the secondary containment.
- Fire water mix is being pumped into tank 100-28. The fire water mix is coming from the secondary containment.
- Foaming operations are taking place for 20 to 30 minutes.
- ITC has brought in infrared cameras to see vapors coming off tanks and to read tank levels.

- RAT will remain the same for 3/25. The teams will be evaluating for any changes than what has been previously observed. The teams will continue until all product is removed from the water.
- Tucker Bayou operations continue. Approximately 1,310 barrels of oily/water mix has been offloaded into Tank 100-28.
- Shell has offered their fire water to wash out marsh area and have the material pumped into vac trucks for removal. Low pressure washing would be utilized for this operation.
- TCEQ Air and Water Sections will provide an update and a list of resources by 1500 hours daily with a brief description of next day activities for the IAP
- EMSI has provided its mobile air monitoring unit data. See Spill12 for information.
- Readings of butadiene are beginning to be recorded near the work area.
- TAGA will begin monitoring at approximately 0830 hours on March 25, 2019.
- ASPECT will attempt to fly in the afternoon depending on the cloud cover.
- The ERC provided maps to Baytown OEM to decide on the parks closures. Ultimately, Baytown decided to keep the parks closed.
- Air Monitoring update

  Benzene

  Div A - 5 - readings between .45 - 11.3 ppm

  Div B - 12 - readings between .05 - 11.75 ppm

  Div C - 5 - readings between .075 - 2.75 ppm

  Div D - 0

  Div E - 58 - Highest reading was 64.4 ppm

  Industrial Area - 13 readings between 0.1 - 2.325 ppm

  Impacted tank farm - 13 readings between 0.1 - 33.75 ppm

  Butadiene:

  Div E - 13 readings between .08 - 1.35 ppm at 2113 hours
- ITC was provided a list of fire control observations. Tina Tran will follow up with the answering of these concerns.
- ERC worked on a pass down folder and a list of duties to be completed during shifts. The folder is to get handed down to each ERC.

<20190324 2300 Incident Event Log.pdf>

<20190325 Division Map.jpg>

Message

Sent: 3/25/2019 9:16:11 AM
To: Delgado, Eric [Delgado.Eric@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: Draft ITC update info you requested -- 03/25/2019

Intercontinental Terminals Company (ITC) Fire Morning Update
Deer Park, Texas
March 25, 2019

- EPA continues to participate in Unified Command with TCEQ, Harris County Pollution Control Services, and ITC.
- As of March 25, ITC continues pumping of Tank 7, as well as the initiation of pumping of Tank 10 and 14.
- ITC reported one minor exposure / injury of a worker. While pumping recovered liquids from the vacuum truck / frac tank / tank, a gasket failed and the contract worker was sprayed with recovered liquid. He was taken to the standby ambulance, and the decision was made to transport the worker to the hospital for observation. There were no visible symptoms or injuries.
- Foaming of the secondary containment to prevent reignition and reduce emissions continues. A two-foot layer of foam (and one-inch layer of liquid) is being maintained.
- EPA collected 8 water samples on March 24. These included previously sampled locations in Buffalo Bayou, near the west side of Lynchburg Reservoir, and southwest of Crystal Bay. EPA will continue taking samples on March 25.
- Several entities including Harris County, Texas Commission on Environmental Quality (TCEQ), EPA, the 6th Civil Support Team, and ITC continue to conduct air monitoring around the tank farm, in adjoining industrial areas, and communities downwind from the facility.
- ITC continued air monitoring from on March 24; there were 1,864 VOC readings and 1,539 benzene readings. There continues to be readings above the action levels for benzene close to the tank farm on Tidal Road, and by Dock 4 on Buffalo Bayou. There were a few detections over 1.0 in the community downwind (Channelview area) but none were sustained for any period.
- Very low readings of butadiene are beginning to be recorded near the work area by the tank farm (which is .
- EPA continued mobile air monitoring on March 24 (12:00 pm) to March 25 (4:00 am) at ____ locations. There were ____ detections above the action level noted.
- ASPECT did not conduct any flights on March 24, due to a low cloud cover, which would have impeded their ability to monitor for any constituents.
- EPA's TAGA Mobile laboratory continued monitoring during the day of March 24.
- TCEQ continued handheld air monitoring between 2:00 pm and 10:00 pm on March 24 (14 readings). No significant readings were detected.
- Unified Command developed, reviewed, and approved the Incident Action Plan (#3) for the next operational period.
- The Rapid Assessment Team (RAT) is scheduled to continue assessments along the Bayou shorelines on March 25.
- The United States Coast Guard (USCG) Captain of the Port opened the San Jacinto River for a period of time to allow vessel traffic through the channel on Sunday between 5 p.m. and 7 p.m.
- USCG conducting recovery operations on a 60 x 60 ft pocket of material discovered in the Peggy Lake area
- Vac truck operations at Tucker Bayou report 9 – 130 bbl vac trucks and 2 – 70 bbl vac trucks operational; total of 1,310 bbls of oily/water mix offloaded into Tank 100-28 from 7:00 – 11:00 pm on March 24.
- Reported by ITC in a press release issued late on March 24:
    - More than 1,100 federal, state and local first responders, agencies, and environmental cleanup contractors on the scene since the fire began on March 19
    - There are currently 34 vessels, including 15 skimmers, on scene conducting operations. An additional seven skimmers and 12 vessels are scheduled to arrive on scene to support assessment, protection, and recovery operations.
    - Personnel currently assigned: 775

- Fire-fighting equipment: 14
- Product removal vehicles: 20
- Vessels assigned: 45
- Boom deployed: 27,000 feet covering Tucker's Bayou, the ITC docks, Patrick's Bayou, Old River, Carpenter's Bayou, Battleship Texas, Santa Ana Bayou, the western shore of the mouth of the San Jacinto River, and the oyster beds located in Burnett Bay
- Skimmers have recovered more than 1.3 million gallons of oil/water mixture

Tank Status as 5:00 am on March 25, 2019

Tank #		Original Volume	Updated Volume	Flow rate	Transfer Method	Status	Notes
80 - 1	Base Oil	48,713 bbls	4,522 bbls			Standby	
80 - 2	Gasoline Blendstock	38,451 bbls	5,437 bbls			Standby	
80 - 3	Gasoline Blendstock	33,200 bbls	5,442 bbls			Standby	
80 - 4	Base Oil	34,808 bbls	7,393 bbls			Standby	
80 - 5	Xylenes	35,502 bbls	4,529 bbls			Standby	
80 - 6	Gasoline Blendstock	48,147 bbls	n/a			Standby	
80 - 7	Py Gas	42,680 bbls	1,262 bbls	1200 bbls/hr	Submersible pump	Active	
80 - 8	Naptha	69,482 bbls	6-0-0 / 9,072 bbls			Standby	
80 - 9	EMPTY	Empty	Empty			Standby	
80 - 10	Py Gas	14,294 bbls	12,922 bbls	500	Inline System	Standby	Transfer stopped at 0240 for pump replacement
80 - 11	Base Oil	51,741 bbls	51,651 bbls			Standby	
80 - 12	EMPTY	Empty	Empty			Complete	
80 - 13	Toluene	13,854 bbls	13,854 bbls			Standby	Pressure testing 70 line at 60psi N2 for potential use
80 - 14	Py Gas	13,837 bbls	2,521 bbls	862 bbls/hr	Inline System	Standby	Transfer stopped at 2209 Pump shut off at 2211
80 - 15	Py Gas	9,354 bbls	Empty			Complete	

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
Mason.steve@epa.gov

"Frequently, my thoughts get turned and walk down to my mouth. Often, this is a bad thing."

Contact

Full Name: Mike Gaudet

E-mail: MGaudet@iterm.com

Message

Sent: 4/1/2019 5:47:15 AM
To: Mike Taylor [mtaylor@iterm.com]
Subject: If this will help you
Attachments: Surviving EPA Inspection.ppt

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a sad thing."

REPORT OF RCRA COMPLIANCE INSPECTION

AT

CLEAN HARBORS TECHNOLOGY CORPORATION
HC54, Box 2B
Kimball, NE 69145

EPA ID Number: NED981723513

ON

January 22-25, 1996

BY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VII
Environmental Services Division

INTRODUCTION

At the request of the Air, RCRA and Toxics Division (ART), a RCRA compliance evaluation inspection was performed at Clean Harbors Technology Corporation, Kimball, NE, on January 22-25, 1996

PARTICIPANTS

Clean Harbors Technology Corporation (Clean Harbors):
James Colburn, Facility Manager
Paul Conca, Environmental Health and Safety Officer
Danielle, Reader, Environmental Health and Safety Officer Assistant
Jim Nelson, Blend Chemist

U.S. Environmental Protection Agency (EPA):
Dedriel L. Newsome, Environmental Engineer

Contact

Full Name: Linda D. Primrose

E-mail: lprimrose@iterm.com

Contact

Full Name: Dwascome@iterm.com

E-mail: Dwascome@iterm.com

Contact

Full Name: jeverett@iterm.com

E-mail: jeverett@iterm.com

Contact

Full Name: Reid McLelland

E-mail: RMcLelland@iterm.com

Contact

Full Name: Alice Richardson

E-mail: ARICHARDSON@iterm.com

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Full Name: Brent Weber

E-mail: bweber@iterm.com

Contact

Full Name: Miguel Escoto

E-mail: MEscoto@iterm.com

Contact

Full Name: mtaylor@iterm.com

E-mail: mtaylor@iterm.com

Contact

Full Name: Mike Gaudet

E-mail: MGaudet@iterm.com

Contact

Full Name: ITC Cares

E-mail: ITCCares@iterm.com

Contact

Full Name: ITC Incident

E-mail: itcincident@iterm.com

Message

From: Timothy Gablehouse [tgablehouse@gcgllc.com]
Sent: 4/5/2019 2:07:30 PM
Subject: Texas chemical incidents intensify calls for EPA to preserve RMP rules

Three chemical release incidents at Houston-area facilities in the last three weeks are intensifying calls for EPA and other federal agencies to bolster protections for fence-line communities, increase agencies' budgets and preserve and strengthen agency rules.

"These sequential disasters highlight the dire need for more and better protections for these fence line communities. Polluters should not get a free pass to pollute our communities and harm our neighbors," Public Citizen said in an April 2 statement.

Their comments come after a fatal incident at KMCO, LLC -- a specialty chemical manufacturing facility in Harris County, TX.

The incident was the third in recent weeks. Last month, a fire (https://www.reuters.com/article/us-refinery-operations-exxon-baytown/exxon-reduces-gasoline-output-at-baytown-texas-refinery-after-fire-sources-idUSKCN1QX0QW) at Exxon's Baytown petroleum refinery forced the facility to scale back production.

Also, a March 17 fire at Mitsui & Co's Intercontinental Terminals Co (ITC) in Deer Park, TX, burnt for days, resulting in significant releases of naphta, xylene, benzene -- a known carcinogen -- and other substances from above ground storage tanks.

EPA and the the U.S. Chemical Safety Board (CSB) are investigating the ITC incident, CSB said in a March 21 statement. Investigators were slated to visit the site last week to "start interviews . . . and document the scene and collect evidence."

"The massive fire, which began on March 17th, engulfed 11 above ground storage tanks containing a variety of hydrocarbons, resulting in multiple orders for community members to Shelter in Place," CSB says.

"The escalation of the event, looking at how the fire spread from a single tank to others in the tank battery, is certainly something we're interested in," CSB lead investigator Mark Wingard told Reuters.

Investigators will focus on interviewing ITC employees and collecting the facility's documents and information on the facility's tanks.

In the wake of the ITC and Exxon incidents, Public Citizen and other groups had already urged the Trump administration to preserve EPA's Obama-era Risk Management Plan (RMP) facility safety rule.

In a March 18 statement, Public Citizen's Texas office says the fires show the "dire need" for stricter regulation and oversight. The group specifically faults EPA's plans to roll back the RMP rule.

"The ITC chemical fire demonstrates how chemical disasters happen far too often in our region, often due to lax regulatory oversight and enforcement," Stephanie Thomas, researcher for Public Citizen's Texas office, said.

Message

From: Smalley, Bryant [smalley.bryant@epa.gov]
Sent: 3/17/2019 6:29:38 PM
To: michael.k.sams@uscg.mil
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Mason, Steve [mason.steve@epa.gov]
Subject: Re: NEW/PENDS: (CIC) D8 – SHG – FACILITY FIRE – HOUSTON SHIP CHANNEL – INTERCONTINENTAL TERMINALS COMPANY (ITC) DEER PARK, TX

I believe we have activated our Response Duty Officer. Working it now

Bryant

Sent from my iPhone

On Mar 17, 2019, at 12:24 PM, Sams, Michael K CIV <Michael.K.Sams@uscg.mil> wrote:

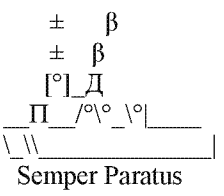
> Good Afternoon,
>
> Below FYSA. I presume you're aware and that EPA is FOSC? Pls verify and let me know. Thx!
>
> V/r,
> Mike Sams
> CGD 8
> 504-671-2234 (o)
> 281-881-6193 (c)
> Sent via mobile device
>
> ---
>
> **From:** Leak, Tierre E LT <Tierre.E.Leak@uscg.mil>
> **Date:** Sunday, Mar 17, 2019, 12:18 PM
> **To:** D08-DG-District-CC OPSBRIEF <D08-DG-District-CCOPSBRIEF@uscg.mil>
> **Cc:** D8CommandCenter <D8CommandCenter@uscg.mil>
> **Subject:** NEW/PENDS: (CIC) D8 – SHG – FACILITY FIRE – HOUSTON SHIP CHANNEL – INTERCONTINENTAL TERMINALS COMPANY (ITC) DEER PARK, TX
>
> Good Afternoon Admiral,
>
> ---
>
> (CIC) D8 – SHG – FACILITY FIRE – HOUSTON SHIP CHANNEL – INTERCONTINENTAL TERMINALS COMPANY (ITC) DEER PARK, TX
> MISLE CASE: 1165335
> DATE TIME GROUP: 171553Z MAR 19
> NEAREST COMMUNITY/LANDMARK: DEER PARK, TX
> FLAG: US
> CARGO: UNKNOWN
>
> SITUATION: SHG received report via VTS Houston of smoke IVO the Houston Ship Channel. SHG correlated the smoke to an active chemical tank fire (chemical unknown) at Intercontinental Terminals Company (ITC) DEER PARK FACILITY. ITC DEER PARK has issued an evacuation order, and has engaged in firefighting shore side. 04 chemical ships were conducting bunkering operations; and ceased operations when alerted of the situation. City of Deer Park, TX has issued a shelter in place order. There have been no injuries reported. CG Station Houston is on scene, Port of Houston Authority has 01 fireboat on scene standing by, due to distance from the fire, and another fireboat enroute. NOAA plume modeling indicated that it would not affect the Houston Ship Channel ATT. An ICP

has been stood up, and SHG representatives are en route to assist. CIC was conducted and follow-on CIC will be held at 1330 local. CASE PENDS

_____

Very Respectfully,

LT Tierre E. Leak
D8 Command Center
500 Poydras Street
New Orleans, LA 70130
(504)589-6225



Message

From: Sams, Michael K CIV [Michael.K.Sams@uscg.mil]
Sent: 3/17/2019 5:22:47 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Mason, Steve [mason.steve@epa.gov]; Smalley, Bryant [smalley.bryant@epa.gov]
Subject: FW: NEW/PENDS: (CIC) D8 – SHG – FACILITY FIRE – HOUSTON SHIP CHANNEL – INTERCONTINENTAL TERMINALS COMPANY (ITC) DEER PARK, TX

Good Afternoon,

Below FYSA. I presume you're aware and that EPA is FOSC? Pls verify and let me know. Thx!

V/r,
Mike Sams
CGD 8
504-671-2234 (o)
281-881-6193 (c)
Sent via mobile device

From: Leak, Tierre E LT <Tierre.E.Leak@uscg.mil>
Date: Sunday, Mar 17, 2019, 12:18 PM
To: D08-DG-District-CC OPSBRIEF <D08-DG-District-CCOPSBRIEF@uscg.mil>
Cc: D8CommandCenter <D8CommandCenter@uscg.mil>
Subject: NEW/PENDS: (CIC) D8 – SHG – FACILITY FIRE – HOUSTON SHIP CHANNEL – INTERCONTINENTAL TERMINALS COMPANY (ITC) DEER PARK, TX

Good Afternoon Admiral,

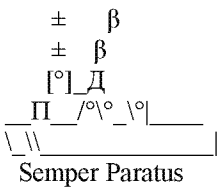
(CIC) D8 – SHG – FACILITY FIRE – HOUSTON SHIP CHANNEL – INTERCONTINENTAL TERMINALS COMPANY (ITC) DEER PARK, TX
MISLE CASE: 1165335
DATE TIME GROUP: 171553Z MAR 19
NEAREST COMMUNITY/LANDMARK: DEER PARK, TX
FLAG: US
CARGO: UNKNOWN

SITUATION: SHG received report via VTS Houston of smoke IVO the Houston Ship Channel. SHG correlated the smoke to an active chemical tank fire (chemical unknown) at Intercontinental Terminals Company (ITC) DEER PARK FACILITY. ITC DEER PARK has issued an evacuation order, and has engaged in firefighting shore side. 04 chemical ships were conducting bunkering operations; and ceased operations when alerted of the situation. City of Deer Park, TX has issued a shelter in place order. There have been no injuries reported. CG Station Houston is on scene, Port of Houston Authority has 01 fireboat on scene standing by, due to distance from the fire, and another fireboat enroute. NOAA plume modeling indicated that it would not affect the Houston Ship Channel ATT. An ICP has been stood up, and SHG representatives are en route to assist. CIC was conducted and follow-on CIC will be held at 1330 local. CASE PENDS

Very Respectfully,

LT Tierre E. Leak
D8 Command Center
500 Poydras Street
New Orleans, LA 70130

(504)589-6225



Semper Paratus

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/1/2019 5:47:19 AM
To: Mike Taylor [mtaylor@iterm.com]
Subject: If this will help you
Attachments: Surviving EPA Inspection.ppt

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get turned and work down to my mouth. Often, this is a bad thing."

Message

From: Steven Cowan [SCowan@css-inc.com]
Sent: 4/1/2019 3:10:47 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: ITC, Surface Water Sampling: 03/31/2019

Steve,

Due to inclement weather, START was not able to collect surface water samples for 03/31/2019. Weather permitting, START will resume surface water sample collection on 04/01/2019. Any questions, just let me know.

Regards,

Steve Cowan, START-IV
CSS
Cell: 214.205.6651

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/1/2019 2:04:56 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: Fw: Final Draft of comments for WMP Revisions - summary of comments from Conf. Call 3/29/19

From: spill12
Sent: Sunday, March 31, 2019 9:00 PM
To: Alma Jefferson; Bob Patton; Loesel, Matthew (loesel.matthew@epa.gov)
Cc: spill12
Subject: Final Draft of comments for WMP Revisions - summary of comments from Conf. Call 3/29/19

The today's review comments for the meeting summary by TCEQ (Region/Waste Permits) and EPA hopefully have been incorporated. Please confirm and if no further adjustments, the summary of the call will be complete. Once complete, the summary, as discussed during the call, would be provided to the call's participants groups via the FOSC/SOSC.

Regards,
Nicole

ICP Site Attendance Roster for March 29, 2019 Waste Plan Meeting Conference Call 4:00 PM - 5:10 PM:
Tom Erny - TCEQ
Carlton Porter - TCEQ
Seth Tate - TCEQ
Tina Tran - TCEQ
Johnathan Martin - Harris County Pollution Control
Karrah Shremshock - ITC
Ernie Shirley - CTEH
Adam Adams - EPA
Daniel Tighe - EPA START
Helen Dubach - CTEH

Region 12 – TCEQ on the call:
Alma Jefferson
Westin Massey
Guadalupe Quiroz
Jason Ybarra
Nicole Bealle

Waste Permits – TCEQ
Bob Patton
Sarah Schreier
Mark Shannon

Also included are references which were either mentioned during the call, required, and/or provide supporting information on how to conduct a regulatorily compliant waste determination and classification. This information, in turn, would be used to appropriately identify the appropriate waste disposal method(s).

A few points that were not raised during the call:

1. The draft indicates the use of EPA method 537M for PFAS. That method has not been approved for use by the EPA and appears that there has been modification to method 537.1. It would be prudent for all parties to utilize the same method when analyzing for PFAS.
2. Recommend separate plans the different elements of waste management – for example, Waste Classification sampling, Waste management (inclusive of Storage and Disposal), and Remediation.

Call summary:

The TCEQ provided feedback on the second review of the Waste Management Plan (WMP) provided by ITC. The agency's call representatives emphasized that the plan's purpose is to fully address the waste classification, storage, and disposal of the wastes generated from the fire event which began on March 17, 2019. The Waste Management and Sampling plan is to address all wastes generated as a result of the event.

The discussion from the agency focused on the requirements in both State and Federal regulations which require the implementation of specific sampling protocols, analytical methods, and supporting documentation. The main referenced documents included the TCEQ QAPP, waste classification/determination information in guidance and rule; EPA sampling protocols and analytical protocols (SW-846). To facilitate use, the links to these documents (on each agency's webpage) have been included below.

Points raised:

1. All wastes that are mixed with, came into contact with, or result from the event are Hazardous Wastes (e.g., U-listed). All wastes are to be managed as HW and disposed of as HW.
2. No compositing
3. No reuse/recycling of the event related wastes – appropriate disposal at a RCRA permitted facility. No liquid wastes from this event are to be processed through the on-site WWTP. These are hazardous wastes and are to be managed and disposed of as hazardous wastes in accordance with the requirements in 40 CFR 262 an 268. (also the treatment standard(s) are applicable – the mixture, the most restrictive treatment standard is to be applied).
4. Specify the sampling type (e.g., grab) and how collected. Sampling is to follow the QAPP and/or SW-846/EPA Sampling guidance except where regulations allow other methods such as ASTM.
5. Specifically reference the guidance document/rule/etc. (e.g., TCEQ QAPP/SW-846) rather than generically referencing throughout the document. Section 1.4 states, "federal regulatory guidance..". there is no guidance in regulations, the QA guidance is in the methods.
6. Classification based on generators process knowledge will be limited. The waste Point of Generation includes a mixture outside of SDS information as the waste will also include fire fighting residual (e.g., Foam), fire residuals as the result of combustion (this occurs in all fires), mixing of materials stored, etc.
7. Specify all parameters, include sampling container type, preservation method, analytical method (must identify Totals vs TCLP. TCLP required for RCRA classifications). Must use a lab that has NELAC approved analytical method specific to the analyte.
8. Chain of Custody (COC) process and must include required information
9. Clarifications of terms:
    a. Not 'avoid' rather it is prohibited except as allowed by regulation (Section 3.0.f of document titled: Draft 6 Submitted)
    b. Prevent , not avoid (Section 3.0.h of the document titled: Draft 6 Submitted)
10. Section 1.6: Please be aware that validation is the comparison of the QA results to the acceptance criteria, either from the method or generated by the laboratory. Validation may indicate bias in the results reported by the laboratory. Accuracy will be determined by evaluating LCS and MS recovery. Organic analysis accuracy is primarily evaluated on each sample based on the surrogate recoveries. LCS and MS are used more for

metals. For organics, they are used to show lab capability. Precision will be determined by evaluating laboratory and field duplicate samples. (Two different precision measurements here, lab duplicates for lab precision, field duplicates for sample collection process and homogeneity of the media being sampled.)

11. Within Section 4.0 of the second draft provide for review there is mention of a 'well-developed' sampling program. The plan being drafted is to be inclusive of any supporting documentation of 'plans' related to the sampling, classification, storage, and final disposal of the wastes generated from the event. Having these very specific and highly detailed documents referenced and included as supporting attachments is acceptable.
12. In Section 4.1:
    a. Define the criteria for when representative sampling would not be necessary or remove the phrase, "when deemed necessary."
    b. The wastes are 'U' listed, as such are toxic as identified by rule. Additional sampling to determine if there are any other EPA hazard codes (e.g., D-listings) for characteristics is to be determined in accordance with waste determination requirements by State/Federal rules.
    c. QA sampling is to be conducted in each zone of sampling and for each media as identified by the sampling protocols established by the State/Federal requirements.
    d. Sample locations should also be in accordance with the sampling protocols established by the environmental oversight agencies for this event.
    e. Grab samples versus Composite samples – in the document, there is mention of 'aliquots from each roll off..'. Composite sample collection for bulk wastes has a well established protocol. Reference the sampling information available by the environmental oversight agencies.
    f. Please be aware that liquid samples do not undergo the 1311 TCLP extraction process, they are just diluted and analyzed, and the results are total. TCLP implies that analysis will only be conducted for the limited list of toxic organics in 261.24, which do not include any PNAs. PNAs are a subset of the SVOA list.
    g. Note that dioxins and furans are common incomplete combustion products and should be included in the list of parameters.
    h. COC must be maintained for each sample. It is possible and is acceptable to have a transfer of custody from the sampler to the transport person to the lab. The COC must reflect this chain, inclusive of date/time/name/etc. on the COC form.
    i. The list of samples noted for liquid waste does not indicate preservation method. Also, for the solids. Add TPH for the soil samples.
13. Section 4.2: The section needs specific step-by-step sampling procedures for all types of sampling to be employed and analysis that will be part of the project or included as an attachment/supplement to the plan. Collectors of samples and investigators must be aware of the range and types of analyses they can expect to be collecting and have the appropriate PPE, sampling equipment/preservation, and appropriate parameters on the COC for the lab.

    All samples are to have identification information that can be cross referenced to source (e.g., tank, roll off, tote, etc.), the sampling activity, COC, and analytical results. Also, if along a ground/water surface, a map locating the sampling location/identifier.

14. Section 4.3: Revise the section for consistency with the RCRA QAPP requirements and SW-846. Sampling must be conducted in a manner that does not disturb or mix the sample materials in order to prevent loss of volatiles to the greatest extent possible.

    Address any sampling of phases within a media.

    Address analytical of any phases that occur within a sample container.

15. Section 4.3.2: Revise to identify a clear methodology which establishes the determination of QA samples to be collected in each defined/distinct area (e.g., tank farm, ditch, etc.). The QA samples must be representative of the sampling media, location and type, as well as the parameters. Again, please reference the guidance information previously referenced. QA guidance is in methods.

Section 4.3.3: As described in the drafted document, this is not a split, this is a co-located sample, if collected by agency. A split consists of separate aliquots of the same sample. Field split samples WILL be collected if requested by the representatives of the TCEQ/EPA or as otherwise determined/deemed necessary.

Matrix interference should and will be checked using method of dilutions or other such tests to resolve.

All analytical methods shall include the Method or sample detection limit, the sample quantitation limit and dilution factor for each analyte in each sample in the laboratory report.

16. Section 4.3.6: All supporting data for laboratory calibrations, calibration check samples, daily calibration checks, recovery levels, etc. are to be included in the data report package provided. Copies of all analytical information is to be provided to the TCEQ.

    LCS are samples, not standards. There are other lab QA analyses not included is this list (instrument blanks, interference check samples, instrument tuning). Indicate the QA included/specified in the methods.

    Identify the lab and/or labs to be used and if any parameters will be contracted out from the main receiving lab.

17. Section 4.4: The decontamination process will also be generating a waste. Elaborate on the handling of this waste (solids, liquids) also, a it is a waste generated from this event and all classification, storage, disposal conditions, unless otherwise concurred with by the TCEQ, will be applicable.

18. Section 5.0: in the table, also address the absence of U220 and have supporting documentation to include as an attachment to the detailed plan.

19. Section 6.0: In the table, for the line identified as "Contaminated Water/Recoverable product": First, Please elaborate on this included verbiage. Second, there is significant concern that there is consideration of any 'recoverable' product. Extensive documentation to demonstrate that the material was not impacted by the fire response (e.g., mixed, contaminated, denatured, etc.) would be required to be provided to the TCEQ/EPA for evaluation. Provide (it may be provided as a supporting document), the handling and storage conducted for any and all materials removed from the tanks within the 2nd 80's area. Any mixtures are a waste and subject to full regulation under RCRA.

    Within the "Ultimate Disposal" column:: No 'recovery' is to be initiated without review by TCEQ/EPA.

    The contaminated water will include stormwater and wash waters that have contacted contaminated solid, vegetation, hard surfaces, and accumulated or flowed into the locations where collected.

20. Section 7.0: All units managing the resulting wastes generated from the event should be identified on the NOR. These units will be subject to the state/federal storage/unit regulations as found in 30 TAC 335 and 40 CFR 260 – 270.

    Where are the separations for collections to be determined? How will vacuum truck operations determine which materials they are not to collect?

    No recovery wastes or liquids are to be managed in the WWTP or treated on-site without specific authorization by the TCEQ. The current TPDES permit DOES NOT authorize the treatment of the wastes generated from this event.

21. All documentation must include the information identified in rule and/or specifically required by the TCEQ/EPA for this event.

Also note: The remediation plan will be needed to be developed. The sampling activity is an element of the remediation efforts that will be required. The remediation will be required to all impacted areas both on-site and off-site. The current plan under development, Waste Management/Sampling Plan, will supplement the remediation plan/activities. All remediation activity wastes will be subject to the conditions noted here.

Reference materials:

1. TCEQ RCRA QAPP: https://www.tceq.texas.gov/permitting/waste_permits/ihw_permits/qapp.html
2. TCEQ RCRA Sampling information: https://www.tceq.texas.gov/remediation/analysis.html
3. TCEQ Guidelines for Waste Classification: https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-022.pdf
4. NELAC info: https://www.tceq.texas.gov/agency/nelac.html
5. Chapter Nine of the SW-846 Compendium: Sampling Plans: https://www.epa.gov/hw-sw846/chapter-nine-sw-846-compendium-sampling-plans
6. EPA SW-846 Quality Assurance and Hazardous Waste Test Methods: https://www.epa.gov/hw-sw846/quality-assurance-and-hazardous-waste-test-methods

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From: Karrah Shremshock <KShremshock@iterm.com>
Sent: Wednesday, March 27, 2019 2:37 PM
To: spill12 <spill12@tceq.texas.gov>; johnathan.martin@pcs.hctx.net
Cc: Helen Dubach <hdubach@ctehrm.com>; Ernie Shirley <eshirley@cteh.com>; James McCormack <jmccormack@cteh.com>
Subject: WMP Revisions

Good afternoon all,

Here is the updated copy of the waste management plan for review. I have included a word document that incorporates the questions asked with our answers for easy reference. Please let me know if have any questions, or need any clarification.

Thanks,

Karrah Shremshock | Hazardous Waste Operator
Intercontinental Terminals Co, LLC
1943 Independence Pkwy S. | La Porte, TX 77571
Office: 281.884.0357 | Cell: 281.515.1819
kshremshock@iterm.com

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/31/2019 11:52:11 PM
To: Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Rouse, Philip [rouse.philip@epa.gov]; Fisher, Kelsey [fisher.kelsey@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Blaze, Stephen [Blaze.Stephen@epa.gov]; Acevedo, Janie [acevedo.janie@epa.gov]; Assunto, Carmen [assunto.carmen@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]; Moore, Gary [moore.gary@epa.gov]; anthony.buck@tceq.texas.gov; travis.lay@tceq.texas.gov; jenniffier.hawes@dps.texas.gov; Curry, Tim [Curry.Timothy@epa.gov]; SCowan@dynamac.com; Alice Richardson [ARICHARDSON@iterm.com]; carlton.porter@tceq.texas.gov; bianca.lopez@tceq.texas.gov
CC: Latham, Benjamin [Benjamin.Latham@WestonSolutions.com]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]; Paige.Doelling@noaa.gov; Neil Daniell [NDaniell@css-inc.com]; Brescia, Nicolas [brescia.nicolas@epa.gov]
Subject: Daily Stress Relief -- Tip for the Day # 10

have

<u>This May be the Most Important One.</u>

During a disaster response, such as this, you may build friendships you did not before, working with people from other areas, or even other programs within your entity.

That's a good thing.

But just as importantly, it is easy to ruin a friendship during stressful times also.

If you want to still be a friend after this is over with, treat your friends with respect, and do not jump on them just because things are not much fun.

Your real friends will be here for you now, and in the future… as long as you don't run them off…

---

to

we all

Play around (just not too much!). Kids and animals seem to have a natural ability play, without stressing about their overflowing inboxes or the beat-down meetings and conference calls.

Until upper management authorizes cookies, milk, and nap time each afternoon, have to take personal responsibility to relax.

Watch a sitcom or movie after work.

And if you go to dinner together, force yourselves not to talk about work, the disaster, or other things that just keep you frustrated.

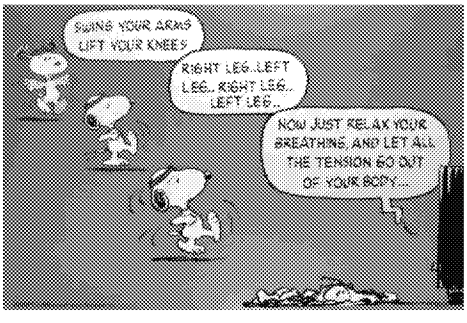
But be a little careful… while you may think a good practical joke will lighten the mood in the work area, understand some people do not have a sense of humor…

---

also a

and

relax.



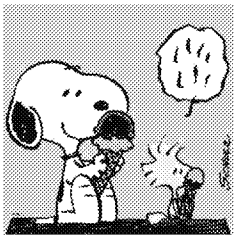
<u>Learn to breathe.</u> This sounds too simple, but a useful tool to prevent panic attacks or reduce peaks of stressfulness, the breath is great marker of where your anxiety level is at throughout the day.

Short, shallow breaths signify stress and anxiety in the brain body.

On the flip side, consciously breathing, plus lengthening and strengthening the breath helps send signals to the brain that it's okay to

So if you find yourself stressed out, find a quiet, comfortable place to sit down. take a normal breath then try a deep breath, breathe in slowly through your nose, allowing your chest and lower belly to rise as you fill your lungs, let your abdomen expand fully, and now breathe out slowly through your mouth (or your nose, if that feels more natural).

As you sit comfortably with your eyes closed, deep breathing with, get your mind off the things making you stress out.



Eat right. Anxiety can throw our bodies totally out of whack: Our appetite might change, or we might crave certain foods (mine has been powdered donuts and Sweet-tarts).

But to give the body the support it needs, try eating more of foods that contain nutrients such as vitamin B and omega-3s (polyunsaturated fats, that actually are not bad for us), plus some healthy whole-grain carbohydrates.

Studies have linked vitamin B with good mental health, and omega-3s may help reduce symptoms of depression and anxiety. Whole-grain carbs help regulate levels of serotonin, the "feel-good" neurotransmitter that helps us remain calm.

And even though our cravings might be telling us otherwise, research suggests that eating sugary and processed foods can increase symptoms of anxiety (not to mention adding weight).

And if you ever need to just talk, give me a call… 214-789-1871 or Monica at 469-766-3398

We're in this together. So now you're going to be working next to someone 12-14-16 hours a day for two weeks (or more). And maybe sharing very close working quarters with that person. How do you keep from killing each other?

There is no sure fire method, but there are some simple things to keep in mind that may help. First remember, all of you in the field have some common/shared thoughts: I don't want to be here (none of us wanted this to happen); I want to go home; and I'm tired.

So when dealing with others in the field, remember that other person is probably thinking the same thing you are. Also, do not keep things bottled up and let them fester. Talk through little issues to ensure they do not grow into big ones. When you have down time (which isn't much), get to know the other person (hobbies, family, previous experiences, etc.) so you better understand them.

Every once in a while, take a separate vacation – while you have to work together, doesn't mean you have to be together every minute of the day. And, finally, each person deals with stress differently… **Look out for each other**.

Express gratitude. Studies have found expressing gratitude helps reduce anxiety, especially when we're well-rested.

So when someone fulfills a request from you, make sure you thank them for the effort.

But there are other times when we don't think about saying "thanks," which is appropriate or can actually defuse others…

When you're receiving a compliment; When you're running late (thank others for being patient); When you're comforting someone (for sharing what they're going through); When you're receiving helpful feedback; When you're receiving unfair criticism (this will many times stop them from continuing); When someone gives you unsolicited advice (also helps to stop them); and When you're not sure if you should thank someone.

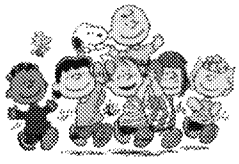
De-clutter the brain. Physical clutter = mental clutter.

A messy workspace can make it more difficult to relax and make it seem like our work is never-ending.

So take a few minutes every day or so to tidy up the work area, and then make a habit of keeping things clean and anxiety-free.

If you no longer need a document, file it with the Documentation Unit to help clear off your desk or table.

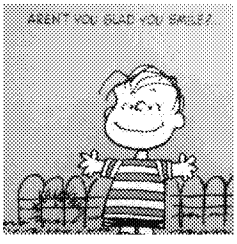
It'll help us think rationally, and there won't be as much room for anxiety.



Turn it Off. Research reveals that people who use electronic devices (television, phones, tablets, etc.) up to the minute they go to bed are sacrificing a more restful sleep. The visual stimulation to your brain takes a while to wind down.

So, to get more rest, turn off that stimulation at least 30 minutes before you try to go to sleep. Instead, open up a fiction book that you have wanted to read, and read a chapter or two until you are ready to close your eyes.

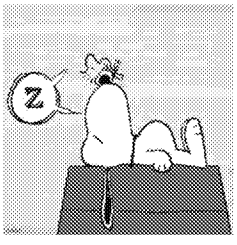
And bad news, ebook devices are just as bad as the TV or laptop. So break out the old but trusty paper book. And while it is simple, and may sound silly, if you had a favorite comic strip when you were younger (Garfield, Bloom County, Peanuts), go to a book store and find a compilation of those to re-discover. Not only may they bring a smile before bed, they may even trigger fond memories of your childhood!



Smile. I am sure all of us will sooner or later will get down from the long hours, stress, being away from home, etc.

When work has got you down, it's a good idea to take a quick break to relieve stress by finding the humor in your life.

Research suggests that laughter can reduce symptoms of depression and anxiety, so consider checking out a funny clip on the internet, remembering your favorite joke, or simply think of funny things that may have happened in past incidents, to help relieve the stress.



Get enough sleep. OK, don't laugh… I know how hard this can be. But, inconsistent sleep can have some serious consequences. Not only does it affect our physical health, but lack of sleep can also contribute to overall anxiety and stress.

And sometimes it turns into a vicious cycle, since anxiety often leads to disruptions in sleep. Especially when feeling anxious, try to get a few more minutes of sleep. If it is possible, when exhausted, try to just take a quick 15 minute nap somewhere.

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Message

From: Dominique Henson [Dominique.Henson@Tceq.Texas.Gov]
Sent: 3/31/2019 9:52:32 AM
To: Mason, Steve [mason.steve@epa.gov]; cameron.dews@pcs.hctx.net
Subject: FW: End of Shift Update_3.30.2019_Bianca Lopez, Carlton Porter

From: spill12
Sent: Saturday, March 30, 2019 11:05 PM
To: Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Todd Thompson <Todd.Thompson@tceq.texas.gov>; Ly Pham <ly.pham@tceq.texas.gov>; Guadalupe Quiroz <guadalupe.quiroz@tceq.texas.gov>; spill12 <spill12@tceq.texas.gov>; Kevin McLeod <Kevin.McLeod@tceq.texas.gov>
Cc: Dominique Henson <Dominique.Henson@Tceq.Texas.Gov>; Jocina Chase <Jocina.Chase@tceq.texas.gov>; Bianca Lopez <Bianca.Lopez@Tceq.Texas.Gov>; Carlton Porter <Carlton.Porter@Tceq.Texas.Gov>
Subject: End of Shift Update_3.30.2019_Bianca Lopez, Carlton Porter

End of Shift Update for March 30, 2019 at 02:00 p.m. to 11:00 p.m.

The EPA TAGA vehicle monitored down wind of the site in the Deer Park and LaPorte area until 4:30 PM. TAGA did not detect any readings above the action levels. ASPECT did not fly due to cloud coverage, they will evaluate again in the morning due to coverage.

There was one land strike team and one water strike team during the day until 6:00 PM. No elevated readings were reported during this time. One land strike team was deployed at 7:00 PM. No readings were reported.

The TCEQ Team 2 contractor recorded a 34.55 ppm benzene reading at 4:44 p.m. at 2911 N. Alexander Drive in Baytown, TX 77520. The TCEQ Region 12 requested the TCEQ Team 2 contractor to return to the location to confirm the reading. Upon return to the location at 4:57 p.m. the reading was 0 ppm. The TCEQ Region 12 did not report any additional readings.

Harris County Pollution Control provided an update of information regarding facilities east and south of ITC whom enacted a shelter-in-place:

- Oxy Vinyls Battleground – enacted at 2:30 PM / lifted at 2:55 PM
- Oxy Vinyls LaPorte VCM – enacted at 2:28 PM / lifted at 3:08 PM
- LyondellBasell (1515 Miller Cut Off Road)– enacted at 2:28 PM
- INEOS (1230 Independence Parkway) – enacted 3:31 PM
- Geo Specialty Chemicals – enacted at 3:31 PM
- Nouryon Polymer Chemicals Battleground – 4:49 PM
- Braschem (8811 Strang Road)– enacted at 5:08 PM

The SCAT team was notified there were no concerns to continue without state representatives. However, the SCAT planning team was notified to inform TCEQ regional management of any developments. At approximately 06:00 PM, Environmental Unit Leader (Helen Dubach) requested information on what TCEQ will be satisfied with as an end-goal

objective for SCAT Team operations. At 10:41 PM, an email was sent from Spill 12 (Carlton Porter) to Karina Rocha and Westin Massey requesting the information. Next shift has been advised of the of the situation.

The ITC PIO provided wildlife impacts: 3 dead birds and 10 birds rehabilitated on March 30, 2019 (as of 5:00 PM).

Questions asked by Andy Goodrich about Tanks 60-1, 80-24, and 50-2 were addressed with Mike Gaudet at 5:30 PM and ICP Planning Section Chief Dustin White at 6:00 PM. These tanks will be added to the Tank Volume Status Update.

Questions asked by Andy Goodrich about the EMSI air monitoring reports were addressed with Mike Gaudet at 5:30 PM. Mike Gaudet is awaiting a revised report from EMSI answering the specific questions asked, and EMSI is revising the report for the data to better address the questions asked by Andy. Mike Gaudet will send revised ESMI report and answers to questions to spill12 as soon as he receives it. Next shift has been advised this is a priority issue and to maintain continuity of efforts to obtain requested information.

ITC Legal Officer (Linda Primrose) requested an update on Incident Documentation Plan at approximately 07:09 PM. The Documentation Plan was submitted to TCEQ on March 26, 2019 for review and response. Update from TCEQ legal has not been received.

Dustin White, Planning Section Chief (TRG Employee), notified the TCEQ and EPA of a possible amendment to the existing IAP due to reduced resources (removal of one skimmer vessel). Next shift has been notified of this possibility.

Financial and logistical discussions concerning the Texas Responder. ITC and the Coast Guard are working the issue.

TCEQ Executive Director, EPA Regional Administrator, and Admiral Thomas with the 8th District USCG will be visiting the site on Monday to discuss progress and transitions. Further information will be provided in the morning shift.

Thank you,

Bianca Lopez and Carlton Porter
TCEQ R12 Environmental Investigators

Message

From: Steven Cowan [SCowan@css-inc.com]
Sent: 3/31/2019 1:23:59 AM
To: Mason, Steve [mason.steve@epa.gov]
CC: Daniel Tighe [Daniel.Tighe@WestonSolutions.com]
Subject: ITC: Surface Water Sampling, 03/30/2019

Steve,

START collected a total of 11 water samples (includes 1 duplicate sample) on 03/30/19.

Steve Cowan, START-IV
CSS
Cell: 214.205.6651

Message

From: Cook, David [David.Cook@WestonSolutions.com]
Sent: 3/30/2019 10:37:20 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: RE: ITC: SCRIBE

See below.
Thanks!
David Cook
START R6 IT/Data Management Lead
Weston Solutions, Inc.
(469) 666-5505 Direct
(512) 970-8836 Cell

From: Cook, David
Sent: Saturday, March 30, 2019 5:18 AM
To: Steven Cowan <SCowan@css-inc.com>
Cc: Steve.Mason@epa.gov
Subject: RE: ITC: SCRIBE

Morning,

We aren't housing the TAGA data in SCRIBE.
ERT post processes TAGA's run for the day at midnight, then does a data dump to Viper.net FTP in the wee hours. I pull the package in the morning when I do my reporting. We house the data in a Geodatabase file on the EPA Amazon cloud. The data set for one day alone is ~32 MBs before zipped up. Let me know which days you want, and I can work on getting you those. They are in CSV files.
I am reporting out for a 6AM delivery so my hands are tied, but can definitely get you something afterwards.

Thanks,

David Cook
START R6 IT/Data Management Lead
Weston Solutions, Inc.
(469) 666-5505 Direct
(512) 970-8836 Cell

From: Steven Cowan [mailto:SCowan@css-inc.com]
Sent: Saturday, March 30, 2019 5:09 AM
To: Cook, David <David.Cook@WestonSolutions.com>
Cc: Steve.Mason@epa.gov
Subject: ITC: SCRIBE

**** External Email ****
David,

OSC Mason would like to take a look at the SCRIBE database that contains the TAGA data. Can you tell us where he can find the ITC SCRIBE Database? Will he have access to SCRIBE? Any questions, just let me know or give Steve Mason a call.

Regards,

Steve Cowan, START-IV

WARNING: External Email: This email originated outside of Weston Solutions. DO NOT CLICK on any links or attachments unless you recognize the sender and are expecting the email.
CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Message

From: Steven Cowan [SCowan@css-inc.com]
Sent: 3/30/2019 10:21:11 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: FW: ITC: SCRIBE

Steve,

See David's e-mail about the TAGA data.

Steve

From: Cook, David <David.Cook@WestonSolutions.com>
Sent: Saturday, March 30, 2019 5:18 AM
To: Steven Cowan <SCowan@css-inc.com>
Cc: Steve.Mason@epa.gov
Subject: RE: ITC: SCRIBE

Morning,

We aren't housing the TAGA data in SCRIBE.
ERT post processes TAGA's run for the day at midnight, then does a data dump to Viper.net FTP in the wee hours. I pull the package in the morning when I do my reporting. We house the data in a Geodatabase file on the EPA Amazon cloud. The data set for one day alone is ~32 MBs before zipped up. Let me know which days you want, and I can work on getting you those. They are in CSV files.
I am reporting out for a 6AM delivery so my hands are tied, but can definitely get you something afterwards.

Thanks,

David Cook
START R6 IT/Data Management Lead
Weston Solutions, Inc.
(469) 666-5505 Direct
(512) 970-8836 Cell

From: Steven Cowan [mailto:SCowan@css-inc.com]
Sent: Saturday, March 30, 2019 5:09 AM
To: Cook, David <David.Cook@WestonSolutions.com>
Cc: Steve.Mason@epa.gov
Subject: ITC: SCRIBE

**** External Email ****
David,

OSC Mason would like to take a look at the SCRIBE database that contains the TAGA data. Can you tell us where he can find the ITC SCRIBE Database? Will he have access to SCRIBE? Any questions, just let me know or give Steve Mason a call.

Regards,

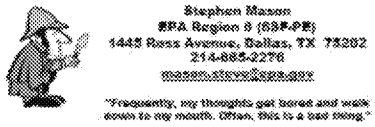
Steve Cowan, START-IV

WARNING: External Email: This email originated outside of Weston Solutions. DO NOT CLICK on any links or attachments unless you recognize the sender and are expecting the email.
CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/31/2019 3:44:18 AM
To: carlton.porter@tceq.texas.gov
Subject: FW: 2nd 80s Fire - 3-30-2019 Tank Volume Status 1900
Attachments: 20190330 1900 Incident Event Log.pdf; 20190330_1900 Volume Status.xlsx; 20190323_TankFarmMap.jpg

With Regards, Steve



From: Kevin Madison <kmadison@responsegroupinc.com>
Sent: Saturday, March 30, 2019 10:35 PM
To: Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; spill12@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net
Subject: 2nd 80s Fire - 3-30-2019 Tank Volume Status 1900

Good evening,

Please see attached for the current tank volume status and incident event log as of 19:00 on March 30, 2019. Please remember that the tank volume status are estimates based off of thermal imaging calculations.

Next update will be for 23:00 on March 30, 2019.

Thank you,

Kevin Madison
Current Night Shift Planning Section Chief

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/31/2019 12:37:12 AM
To: Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Rouse, Philip [rouse.philip@epa.gov]; Fisher, Kelsey [fisher.kelsey@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Blaze, Stephen [Blaze.Stephen@epa.gov]; Acevedo, Janie [acevedo.janie@epa.gov]; Assunto, Carmen [assunto.carmen@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]; Moore, Gary [moore.gary@epa.gov]; anthony.buck@tceq.texas.gov; travis.lay@tceq.texas.gov; jenniffier.hawes@dps.texas.gov; Curry, Tim [Curry.Timothy@epa.gov]; SCowan@dynamac.com; Alice Richardson [ARICHARDSON@iterm.com]; carlton.porter@tceq.texas.gov; bianca.lopez@tceq.texas.gov
CC: Latham, Benjamin [Benjamin.Latham@WestonSolutions.com]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]; Paige.Doelling@noaa.gov; Neil Daniell [NDaniell@css-inc.com]; Brescia, Nicolas [brescia.nicolas@epa.gov]
Subject: Daily Stress Relief -- Tip for the Day # 09

to

Play around (just not too much!). Kids and animals seem to have a natural ability play, without stressing about their overflowing inboxes or the beat-down meetings and conference calls.

we all

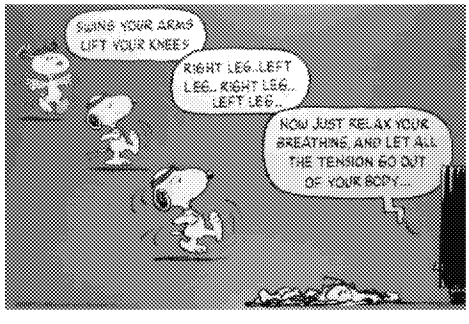
Until upper management authorizes cookies, milk, and nap time each afternoon, have to take personal responsibility to relax.

Watch a sitcom or movie after work.

And if you go to dinner together, force yourselves not to talk about work, the disaster, or other things that just keep you frustrated.

But be a little careful… while you may think a good practical joke will lighten the mood in the work area, understand some people do not have a sense of humor…

also a



<u>Learn to breathe.</u> This sounds too simple, but a useful tool to prevent panic attacks or reduce peaks of stressfulness, the breath is great marker of where your anxiety level is at throughout the day.

and

Short, shallow breaths signify stress and anxiety in the brain body.

On the flip side, consciously breathing, plus lengthening and strengthening the breath helps send signals to the brain that it's okay to

relax.

So if you find yourself stressed out, find a quiet, comfortable place to sit down. take a normal breath then try a deep breath, breathe in slowly through your nose, allowing your chest and lower belly to rise as you fill your lungs, let your abdomen expand fully, and now breathe out slowly through your mouth (or your nose, if that feels more natural).

As you sit comfortably with your eyes closed, deep breathing with, get your mind off the things making you stress out.

---

tarts).

<u>Eat right</u>. Anxiety can throw our bodies totally out of whack: Our appetite might change, or we might crave certain foods (mine has been powdered donuts and Sweet-

for

But to give the body the support it needs, try eating more of foods that contain nutrients such as vitamin B and omega-3s (polyunsaturated fats, that actually are not bad us), plus some healthy whole-grain carbohydrates.

Studies have linked vitamin B with good mental health, and omega-3s may help reduce symptoms of depression and anxiety. Whole-grain carbs help regulate levels of serotonin, the "feel-good" neurotransmitter that helps us remain calm.

And even though our cravings might be telling us otherwise, research suggests that eating sugary and processed foods can increase symptoms of anxiety (not to mention adding weight).

And if you ever need to just talk, give me a call… 214-789-1871 or Monica at 469-766-3398

We're in this together. So now you're going to be working next to someone 12-14-16 hours a day for two weeks (or more). And maybe sharing very close working quarters with that person. How do you keep from killing each other?

There is no sure fire method, but there are some simple things to keep in mind that may help. First remember, all of you in the field have some common/shared thoughts: I don't want to be here (none of us wanted this to happen); I want to go home; and I'm tired.

So when dealing with others in the field, remember that other person is probably thinking the same thing you are. Also, do not keep things bottled up and let them fester. Talk through little issues to ensure they do not grow into big ones. When you have down time (which isn't much), get to know the other person (hobbies, family, previous experiences, etc.) so you better understand them.

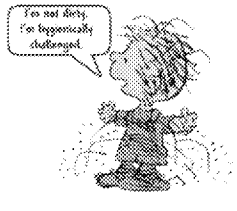
Every once in a while, take a separate vacation – while you have to work together, doesn't mean you have to be together every minute of the day. And, finally, each person deals with stress differently… **Look out for each other**.

Express gratitude. Studies have found expressing gratitude helps reduce anxiety, especially when we're well-rested.

So when someone fulfills a request from you, make sure you thank them for the effort.

But there are other times when we don't think about saying "thanks," which is appropriate or can actually defuse others…

When you're receiving a compliment; When you're running late (thank others for being patient); When you're comforting someone (for sharing what they're going through); When you're receiving helpful feedback; When you're receiving unfair criticism (this will many times stop them from continuing); When someone gives you unsolicited advice (also helps to stop them); and When you're not sure if you should thank someone.



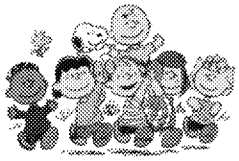
De-clutter the brain. Physical clutter = mental clutter.

A messy workspace can make it more difficult to relax and make it seem like our work is never-ending.

So take a few minutes every day or so to tidy up the work area, and then make a habit of keeping things clean and anxiety-free.

If you no longer need a document, file it with the Documentation Unit to help clear off your desk or table.

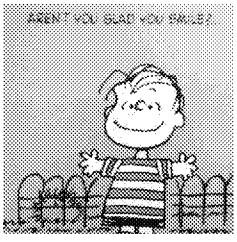
It'll help us think rationally, and there won't be as much room for anxiety.

The  go to

Turn it Off. Research reveals that people who use electronic devices (television, phones, tablets, etc.) up to the minute they go to bed are sacrificing a more restful sleep. visual stimulation to your brain takes a while to wind down.

So, to get more rest, turn off that stimulation at least 30 minutes before you try to sleep. Instead, open up a fiction book that you have wanted to read, and read a chapter or two until you are ready to close your eyes.

And bad news, ebook devices are just as bad as the TV or laptop. So break out the old but trusty paper book. And while it is simple, and may sound silly, if you had a favorite comic strip when you were younger (Garfield, Bloom County, Peanuts), go to a book store and find a compilation of those to re-discover. Not only may they bring a smile before bed, they may even trigger fond memories of your childhood!



stress so stress.

Smile. I am sure all of us will sooner or later will get down from the long hours, stress, being away from home, etc.

When work has got you down, it's a good idea to take a quick break to relieve by finding the humor in your life.

Research suggests that laughter can reduce symptoms of depression and anxiety, consider checking out a funny clip on the internet, remembering your favorite joke, or simply think of funny things that may have happened in past incidents, to help relieve the

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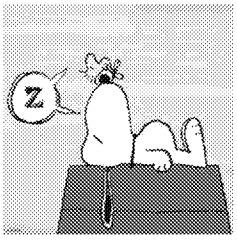
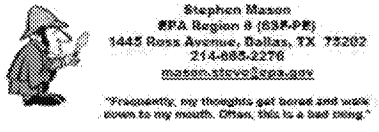


Get enough sleep. OK, don't laugh… I know how hard this can be. But, inconsistent sleep can have some serious consequences. Not only does it affect our physical health, but lack of sleep can also contribute to overall anxiety and stress.

And sometimes it turns into a vicious cycle, since anxiety often leads to disruptions in sleep. Especially when feeling anxious, try to get a few more minutes of sleep. If it is possible, when exhausted, try to just take a quick 15 minute nap somewhere.

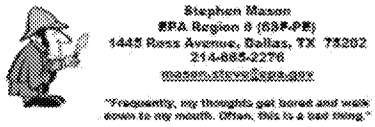
With Regards, Steve



Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/29/2019 1:25:02 AM
To: william.j.cotta@uscg.mil
Subject: FW: 2nd 80s Fire - Trajectory 032719
Attachments: ATT00001.txt; 2019_03_27_ITCTankFire (1).pdf

With Regards, Steve



From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, March 27, 2019 5:39 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; spill12@tceq.texas.gov; David Wade <david.wade@oem.hctx.net>; dwhite@responsegroupinc.com; ltannehill@responsegroupin.com; hdubach@ctehrm.com
Subject: 2nd 80s Fire - Trajectory 032719

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/28/2019 10:40:03 PM
To: Linda D. Primrose [lprimrose@iterm.com]
CC: Kendra.Bernhagen@tceq.texas.gov; spill12@tceq.texas.gov; Dustin White [dwhite@responsegroupinc.com]; John Pasquier [jpasquier@responsegroupinc.com]
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

When she gets out of the planning meeting, I will see what her comments are...

With Regards, Steve

-----Original Message-----
From: Linda D. Primrose <lprimrose@iterm.com>
Sent: Thursday, March 28, 2019 5:37 PM
To: Mason, Steve <mason.steve@epa.gov>
Cc: Kendra.Bernhagen@tceq.texas.gov; spill12@tceq.texas.gov; Dustin White <dwhite@responsegroupinc.com>; John Pasquier <jpasquier@responsegroupinc.com>
Subject: Re: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve,

Please look back to the email I sent on Tuesday at 8:40pm. My email below was just checking in on any comments to that draft.

If you need me to resend, I will. Although I just heard from Kendra that TCEQ has comments so I'm happy to come by and chat with both of you.

Thanks
Linda

Sent from my iPhone

On Mar 28, 2019, at 5:33 PM, Mason, Steve <mason.steve@epa.gov<mailto:mason.steve@epa.gov>> wrote:

There was nothing attached…

With Regards, Steve
<image001.jpg>

From: Linda D. Primrose <lprimrose@iterm.com<mailto:lprimrose@iterm.com>>
Sent: Thursday, March 28, 2019 3:00 PM
To: Mason, Steve <mason.steve@epa.gov<mailto:mason.steve@epa.gov>>; Kendra.Bernhagen@tceq.texas.gov<mailto:Kendra.Bernhagen@tceq.texas.gov>; spill12@tceq.texas.gov<mailto:spill12@tceq.texas.gov>
Cc: Dustin White <dwhite@responsegroupinc.com<mailto:dwhite@responsegroupinc.com>>; John Pasquier <jpasquier@responsegroupinc.com<mailto:jpasquier@responsegroupinc.com>>
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve and Kendra,

Please see below. Any follow-up?

Thanks
Linda

<image005.png>Linda D. Primrose | VP & General Counsel Intercontinental Terminals Company LLC
Mobile: 346.263.8228

From: Linda D. Primrose
Sent: Tuesday, March 26, 2019 8:40 PM
To: 'Mason, Steve'; 'Kendra.Bernhagen@tceq.texas.gov<mailto:Kendra.Bernhagen@tceq.texas.gov>'; 'spill12@tceq.texas.gov<mailto:spill12@tceq.texas.gov>'
Cc: 'Dustin White'; 'John Pasquier'
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve and Kendra,

Thanks for meeting with me. Please see the attached revised plan. I moved a few things around on the second page and added the language we discussed at the top.

Let me know if you have any questions or comments.
Thanks
Linda

<image005.png>Linda D. Primrose | VP & General Counsel Intercontinental Terminals Company LLC

From: Linda D. Primrose
Sent: Tuesday, March 26, 2019 7:53 PM
To: 'Mason, Steve'; John Pasquier;
Kendra.Bernhagen@tceq.texas.gov<mailto:Kendra.Bernhagen@tceq.texas.gov>
Cc: Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve,

Does the attached revised draft address EPA's concerns (see new paragraph on pg. 2 starting with "To the extent").

Thanks
Linda

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From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Tuesday, March 26, 2019 6:54 AM
To: John Pasquier; Kendra.Bernhagen@tceq.texas.gov<mailto:Kendra.Bernhagen@tceq.texas.gov>
Cc: Linda D. Primrose; Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

John, while EPA believes a documentation retention plan is appropriate for all documents that are developed and approved by the Unified Command, EPA would not be able to support a plan that asks for all notes, memos, etc.

We expect we will be placed under a litigation hold, which would preclude us from sharing those items…

With Regards, Steve
<image006.jpg>

From: John Pasquier <jpasquier@responsegroupinc.com<mailto:jpasquier@responsegroupinc.com>>
Sent: Monday, March 25, 2019 10:19 PM
To: Kendra.Bernhagen@tceq.texas.gov<mailto:Kendra.Bernhagen@tceq.texas.gov>; Mason, Steve
<mason.steve@epa.gov<mailto:mason.steve@epa.gov>>
Cc: Linda D. Primrose <lprimrose@iterm.com<mailto:lprimrose@iterm.com>>; Dustin White
<dwhite@responsegroupinc.com<mailto:dwhite@responsegroupinc.com>>
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Good evening,

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Thank you,

John Pasquier
Current Night Shift Planning Section Chief

Message

From: Linda D. Primrose [lprimrose@iterm.com]
Sent: 3/28/2019 10:36:37 PM
To: Mason, Steve [mason.steve@epa.gov]
CC: Kendra.Bernhagen@tceq.texas.gov; spill12@tceq.texas.gov; Dustin White [dwhite@responsegroupinc.com]; John Pasquier [jpasquier@responsegroupinc.com]
Subject: Re: 2nd 80s Fire Incident Documentation Plan - For Review and Approval
Attachments: image005.png; image006.jpg; ATT00001.txt

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Cc: Linda D. Primrose <lprimrose@iterm.com<mailto:lprimrose@iterm.com>>; Dustin White <dwhite@responsegroupinc.com<mailto:dwhite@responsegroupinc.com>>
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CC: Dustin White [dwhite@responsegroupinc.com]; John Pasquier [jpasquier@responsegroupinc.com]
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

There was nothing attached…

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get turned and work down to my mouth. Often, this is a bad thing."

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Steve and Kendra,

Thanks for meeting with me. Please see the attached revised plan. I moved a few things around on the second page and added the language we discussed at the top.

Let me know if you have any questions or comments.
Thanks
Linda

Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Linda D. Primrose
Sent: Tuesday, March 26, 2019 7:53 PM
To: 'Mason, Steve'; John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve,

Does the attached revised draft address EPA's concerns (see new paragraph on pg. 2 starting with "To the extent").

Thanks
Linda

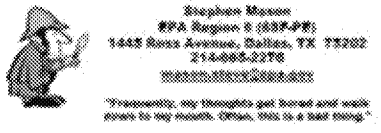
Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Tuesday, March 26, 2019 6:54 AM
To: John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Linda D. Primrose; Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

John, while EPA believes a documentation retention plan is appropriate for all documents that are developed and approved by the Unified Command, EPA would not be able to support a plan that asks for all notes, memos, etc.

We expect we will be placed under a litigation hold, which would preclude us from sharing those items…

With Regards, Steve



From: John Pasquier <jpasquier@responsegroupinc.com>
Sent: Monday, March 25, 2019 10:19 PM
To: Kendra.Bernhagen@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>
Cc: Linda D. Primrose <lprimrose@iterm.com>; Dustin White <dwhite@responsegroupinc.com>
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Good evening,

Please see attached for the 2nd 80s Fire Incident Documentation Plan for review and approval.

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/26/2019 9:45:40 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]
CC: ran2@cdc.gov; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]; Jack Hanley [jah8@cdc.gov]; jlf1 [jlf1@cdc.gov]; michael.k.sams@uscg.mil; Mark Ryan [MRyan@lsuhsc.edu]
Subject: Fwd: Deer Park Fire SITREP #4
Attachments: SITREP-4 3.26.19 - Deer Park.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Baker, David" <David.Baker@BSWHealth.org>
Date: March 26, 2019 at 4:38:56 PM CDT
To: "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, Steven D." <dbaker@UTMB.EDU>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: Deer Park Fire SITREP #4

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

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Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/28/2019 3:15:49 PM
To: Mason, Steve [mason.steve@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; fred.schuster@hhs.gov; Julia Lothrop [Julia.Lothrop@hhs.gov]; Amyo.Taylor@hhs.gov; Christine Hanson [christine.hanson@fema.dhs.gov]
CC: ran2@cdc.gov; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Jack Hanley [jah8@cdc.gov]; Lyke, Jennifer [Lyke.Jennifer@epa.gov]; Mark Ryan [MRyan@lsuhsc.edu]; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]
Subject: Fwd: Deer Park Fire SITREP #5
Attachments: SITREP-5_3.27.19 - Deer Park.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Baker, David" <David.Baker@BSWHealth.org>
Date: March 27, 2019 at 4:46:27 PM CDT
To: "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, Steven D." <dbaker@UTMB.EDU>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: RE: Deer Park Fire SITREP #5

Let's try that again with attachment ☺

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

From: Baker, David
Sent: Wednesday, March 27, 2019 4:34 PM
To: 'Young, Patrick' <young.patrick@epa.gov>; 'Snodgrass, Wayne R.' <wsnodgra@UTMB.EDU>; 'Martin, Thomas' <Thomas.Martin@ttuhsc.edu>; 'Melody Gardner' <MELODY.GARDNER@phhs.org>; 'Baker, Steven D.' <dbaker@UTMB.EDU>; 'Jaramillo, Jeanie' <Jeanie.Jaramillo@ttuhsc.edu>; 'Kelly Hogue' <KELLY.HOGUE@phhs.org>; 'Sal Baeza' <sbaeza@umcelpaso.org>; 'Veronica Stoller' <Stoller@uthscsa.edu>; 'Brett Roth' <Brett.Roth@UTSouthwestern.edu>; 'Dr. Varney' <Varney@uthscsa.edu>; 'Joshi, Prashant' <Prashant.Joshi@ttuhsc.edu>; Morrissey, Ryan P M.D. <Ryan.Morrissey@BSWHealth.org>; 'Sharilyn Stanley' <sharilyn.stanley@csec.texas.gov>; 'Borron, Stephen' <Stephen.Borron@ttuhsc.edu>; 'Hall,Emily (DSHS)' <Emily.Hall@dshs.texas.gov>; 'Stuteville,Haylea (DSHS)' <Haylea.Stuteville@dshs.texas.gov>; 'Kelli Merriweather' <kellim@csec.texas.gov>; 'James Johnson' <jamesmj@csec.texas.gov>; 'Kaitlyn Cross' <KAITLYN.CROSS@phhs.org>; 'Dawn Marchetto' <DAWN.MARCHETTO@phhs.org>
Subject: Deer Park Fire SITREP #5

Here is today's Sit rep from poison center

First page – updates in red font – Thanks Patrick for the added information

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

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Message

From: Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]
Sent: 3/28/2019 5:59:18 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: Fw: End of Shift Update_03.27.2019_Kendra Bernhagen_Sam Cortez

Here ya go!

From: Kendra Bernhagen
Sent: Thursday, March 28, 2019 12:55 AM
To: Guadalupe Quiroz; Todd Thompson; Alma Jefferson; Kevin McLeod
Cc: Travis Lay; Tom Erny
Subject: End of Shift Update_03.27.2019_Kendra Bernhagen_Sam Cortez

End of Shift Update_03.27.2019_Kendra Bernhagen_Sam Cortez

Kendra Bernhagen and Erasha DeSilva took an overflight with, GLO, Cardno (ITC contractor) to assess the current status of material in Tucker Bayou, Houston Ship Channel, and surrounding areas. TCEQ observed current operations near Tucker Bayou and identified that there was reduced activity on Tucker Bayou.

A planning meeting was held at 1730 hours where the IAP was presented and reviewed for the next operational period.

-
100-28 is having to have some of its material transferred to tank 100-31 to reduce head pressure and volume, and to allow vac trucks to continue offloading into 100-28.

The tank farm activities are as followed: Tank 80-13 is being transferred to 80-18. The pump has a flow rate of approximately 476 barrels per hour. Currently 60, 373 barrels have been transferred to 80-13. The operation is estimated to be completed by 1300 hours on March 28, 2019.

Hydro cutting activities on tank 80-14 and 80-15 were put on hold due to parts not arriving yet.

The tank farm is being foamed as necessary. Each foaming operation uses approximately 6, 250 gallon totes of foam.

Tucker Bayou and ditch operations are as followed: Approximately 1300 barrels of material have been removed from Tuckers Bayou and are pumping the material into tank 100-28. 70 barrels have been removed from the ditch and taken to tank 100-28.

A question that has been presented to TCEQ is can the boom be cleaned after this incident or does it have to be disposed of?

A discussion was had with ITC to address the following concerns:

- Obtain additional information on the volumes noted in the last paragraph – how did it get from the lower starting amount to both being at 37 feet. This appears to indicate that the tanks were still receiving flow.

Answer: The 80s tank farm is not the only tank farm that flows into this area. Tanks can still be pumped into the tank when power is cut, but cannot be pumped out. Additionally, the facility cannot read the tank level without power.

- Obtain a wastewater/stormwater flow map

Answer: The map needs to be obtained by the morning ERC. Mike Gaudet and Hunter Willis will be the contact points.

- Clarify the power outage/timing

Answer: This is a question that Hunter Willis will need to provide in morning.

- Do the pumps have a manual override/manual valve that can open/close the feed lines to Tanks 60-1 and 80-34?

Answer: The pumps have a manual override. These valves can be opened and closed to feed or cut the feed from tanks 60-1 and 80-34

- Did the treatment plant lose power like tanks 60-1/80-34? How is the plant being fed/with what/from where, etc.)

Answer: The plant actually cut the power to the WWTP (this was clarified by the IC on March 27, 2019). Time, date, and what was fed to maintain the bugs will be clarified by ERC on March 27, 2019.

- Describe the 'recirculation' term further – is that recirculated within the one tank; between tanks (if so ID which ones)

Answer: Recirculation has been described as the facility will pull out of one tank either 80-34 or 60-1 circulating that water throughout the WWTP and then feed it back into the tank it originated from.

Other clarifications:
The sample point for the WWTP is the following coordinates: 29.732069, -95.097522.

A decant plan was presented to Unified Command, this plan was declined by both TCEQ and EPA since the material is a hazardous waste. The only decanting that can take place is for disposal. The water can be sent for deep well injection and the material can be sent for incineration.

The Strike Team,comprised of CST on behalf of TCEQ, EPA, and CTEH were sent to Houston Fuel Terminal Dock 3 at 2342 hours to investigate a complaint about gaseous odors. The strike team observed visible material on the water and recorded a reading of .05 ppm of benzene. The initial call came to Unified Command by Kirby Marine stating that the tug was evacuating the area due to gaseous odors in the area, however no air monitoring was conducted by Kirby.

Coast Guard has currently recovered 24, 364 barrels of material from on water operations. Approximately 35,724 barrels of material from the tank farm has been recovered. 128 cubic yards of

solid waste has been generated. 12,600 feet of boom was deployed on March 27, 2019. 77,600 feet of 18" boom has been deployed and 2, 640 feet of offshore 67" of boom has also been deployed. These numbers do not account for Tucker Bayou boom.

Correction to Toms update: no decanting plans were approved. The decontamination plan was approved on March 23, 2019.

Message

From: Travis Lay [Travis.Lay@Tceq.Texas.Gov]
Sent: 3/27/2019 11:30:38 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: FW: ITC surface water sampling plan
Attachments: Sampling plan-water 1.1.docx; Sample Location Map.pdf

From: Eresha DeSilva
Sent: Wednesday, March 27, 2019 6:22 AM
To: Travis Lay <Travis.Lay@Tceq.Texas.Gov>
Subject: FW: ITC surface water sampling plan

From: Westin Massey
Sent: Tuesday, March 26, 2019 9:47 AM
To: Eresha DeSilva <Eresha.DeSilva@tceq.texas.gov>
Subject: FW: ITC surface water sampling plan

From: Westin Massey
Sent: Sunday, March 24, 2019 7:32 AM
To: spill12 <Spill12@tceq.texas.gov>; Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Karina Rocha <Karina.Rocha@tceq.texas.gov>
Subject: FW: ITC surface water sampling plan

Attached is the updated sampling plan received from SWS. OW/Honeycutt have reviewed the document and have no further comments at this time.

-Westin

From: Westin Massey
Sent: Saturday, March 23, 2019 6:12 PM
To: Lori Hamilton <Lori.Hamilton@tceq.texas.gov>; Jill Csekitz <Jill.Csekitz@tceq.texas.gov>; Katherine Nelson <Katherine.Nelson@tceq.texas.gov>; Michael Honeycutt <Michael.Honeycutt@tceq.texas.gov>
Cc: Karina Rocha <Karina.Rocha@tceq.texas.gov>
Subject: FW: ITC surface water sampling plan

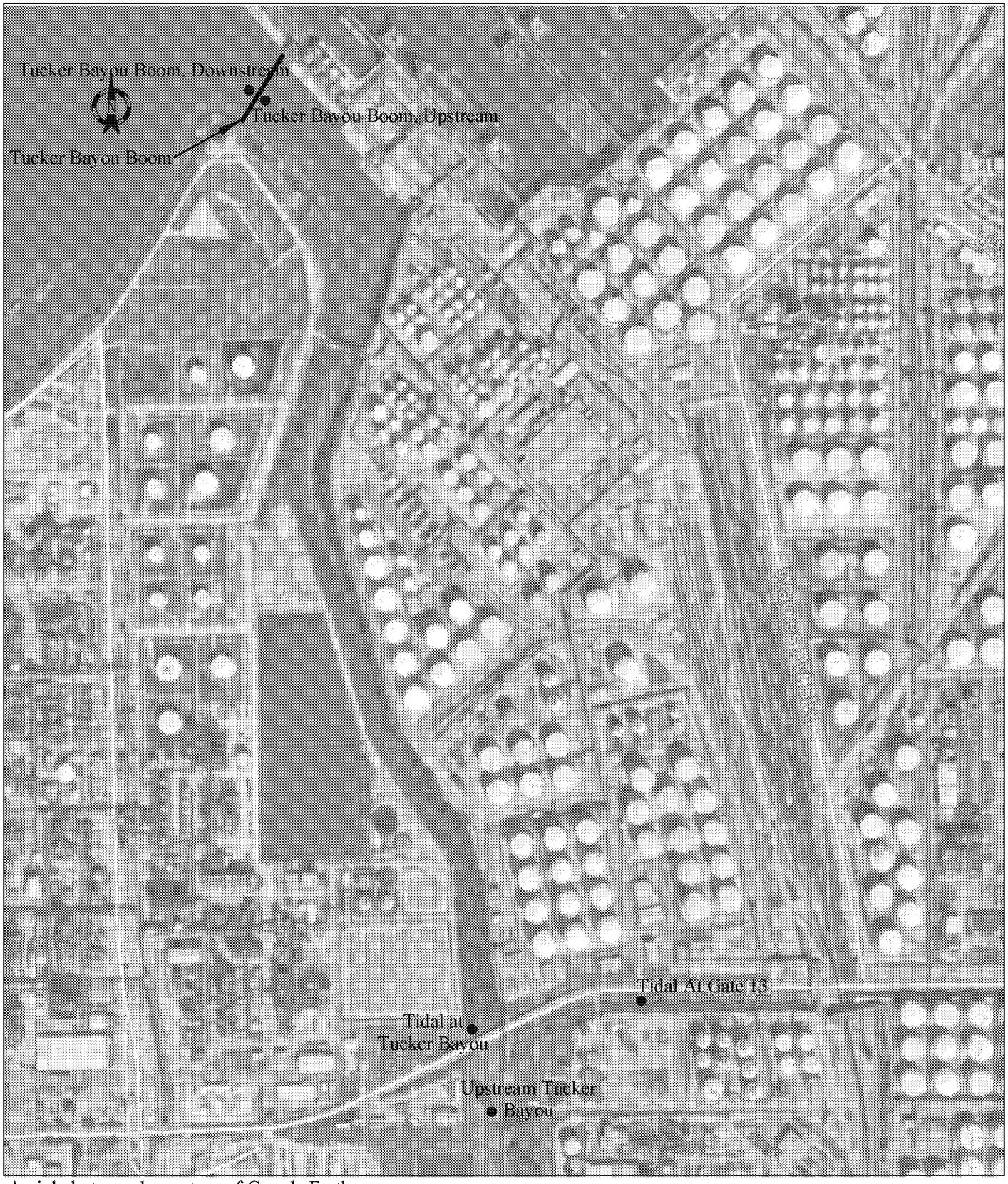
Updated sampling plan from SWS.

-Westin

From: Wise, Henry <hwise@nrcc.com>
Sent: Saturday, March 23, 2019 5:11 PM
To: spill12 <spill12@tceq.texas.gov>; Anthony Buck <Anthony.Buck@tceq.texas.gov>
Subject: ITC surface water sampling plan

Henry Wise
Project Manager II
- - - - - - - - - - - - - - - - - - -
www.nrcc.com | hwise@nrcc.com

- - - - - - - - - - - - - - - - - - -
1700 North E Street
La Porte, TX 77571
United States
Tel: (281) 867-9131
Mobile: (713) 569-7814
Fax: (281) 867-9150
24 Hour Emergency Service: 1 (800) 899-4672



Aerial photograph courtesy of Google Earth.

SWS ENVIRONMENTAL SERVICES 1700 North E Street La Porte, Texas 77571	Date: 3/22/2019 Project No. HU3-903-1211 0 200 400 600 Scale (Feet)	ITC 2626 Tidal Road Deer Park, Texas 77536	**Figure 1** **Sample Location Map**

SWS Environmental Services
Always On
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Emergency Response
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Field Services
Waste Services

600 Grand Panama Blvd, Suite 200
Panama City Beach, FL 32407
Phone: 850.234.3428
Fax: 850.234.2451
www.swsenvironmental.com

March 23, 2019

Weston Massey
Texas Commission on Environmental Quality

RE: Sampling Plan, ITC Above Ground Storage Tank Fire, Deer Park, Texas

Dear Mr. Massey:

Pursuant to your request, SWS Environmental Services (SWS) has prepared this sampling workplan to collect representative water samples at the above referenced facility to provide analytical data for constituents of concern at the site. Based on permit requirements for the permitted facility and discussions with the Texas Commission on Environmental Quality (TCEQ), SWS will collect water samples once a day from five locations of the site known to have been impacted by the March 17, 2019 fire, when accessible. Access may be limited by fire, foam, sudden discharges of fluids from failing containment areas, or other emergency situations that may occur. These locations are (Figure 1):

- Tucker Bayou Boom, downstream side,
- Tucker Bayou Boom, upstream side,
- Tidal Road at Gate 13,
- Tidal Road at Tucker Bayou, and
- Upstream Tucker Bayou

Arrangements to collect the downstream and upstream sides of the boom at Tucker Bayou must be made with the US Coast Guard, who will provide transportation to the site. Life vests are to be worn while on the boat.

ED_002627_00017249-00001

600 Grand Panama Blvd, Suite 200
Panama City Beach, FL 32407
Phone: 850.234.3428
Fax: 850.234.2451
www.swsenvironmental.com

All locations will be sampled for:

Analysis	Method	Sample Container	Hold-Time	Comments
CBOD	SM2510B	1 L plastic	48 Hrs to Set	5 day Incubation
COD/NH_3/Total Organic Nitrogen (TON)	H8000/EPA 350.1/Calc: EPA 351.2-EPA 350.1	1-500 ml with H_2SO_4	28 days	TKN-NH3
TSS	SM2540D	1 L plastic	7 days	
Oil/Grease	E1664B	1-32 oz. glass with HCL	28 days	
Total Phenol	EPA 420.4	1 L amber with H_2SO_4	28 days	
Sulfide	SM4500SF00	1-500 ml plastic with NaOH and Zn acetate	7 days	
Phosphate	EPA 365.1	1-500 ml plastic-plain	48 hrs/28 days	unpreserved/preserved
TPH	TX-1005	2-40 ml with HCL	14 Days	w/HCL Preservation
VOC's	EPA 624	3-40 ml with HCL	14 days	w/HCL Preservation
SVOC's	EPA 625	2- 1 L amber	7 Days	7 day extraction/40 days to analysis
Cyanide	EPA 335.4	1-250 ml with NaOH	14 days	
Metals (Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Tin, Zinc/Mercury	EPA 6020/EPA 7470	1-500 ml plastic with HNO_3	6 Months/28 days	w/HN03 preservation
Tentatively Identified Compounds (TICs)				

Due to the constantly changing air quality situation for the site, a CPEH will be contacted prior to sampling each location to confirm if a respirator is needed in the area. Respirators with organic vapor cartridges are to be used whenever needed. Personnel will use new nitrile sampling gloves to collect samples from each location so as to minimize the possibility of cross-contamination. Areas covered with foam will not be sampled.

Based on our discussions with TCEQ representatives, no bailers or other means of collecting the samples will be used to collect the samples and then transfer them to the sample containers. The sample containers will be used to collect the water samples directly from the source. Care must be taken when filling the sample containers that contain preservatives so as to not over-fill them and loose the preservatives that are in the containers. Samples collected for VOC and TPH (Texas Method 1005) analyses are to be filled to the top with no bubbles present after filling.

All sample labels will be filled out and attached to the sample containers prior to sampling. After sampling, the containers will be wiped clean of any residual liquids prior to placing them on ice in ice chests. All ice chests will be accompanied with a properly filled out chain-of-custody,

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sealed with custody seals, and stored in secure locations until delivered to the laboratory. Be sure there is sufficient ice in the coolers prior to sealing them to keep the samples cooled to less than 6° C until delivered to the laboratory. All samples will be delivered to the laboratory as soon as possible after collection. If needed, call the laboratory to arrange for weekend deliveries. All analyses will meet the appropriate Texas Risk Reduction Program (TRRP) human health surface water Risk-Based exposure limits (^{SW}RBELs).

For QA/QC purposes, one trip blank will accompany each cooler and be analyzed for VOCs, one field blank will be collected per day and analyzed for VOCs, and one duplicate sample will be collected per day and analyzed for all of the analyses listed above. Upon receipt of each finalized laboratory report SWS will have a data review of the information performed by an independent third party for completeness, accuracy, precision, and usability.

Should you have any questions regarding this plan, please contact me at 281-867-9131 (office) or 713-569-7814 (cell).

Sincerely,

Henry M. Wise, PG, CPG
Remedial Services Senior Specialist

ED_002627_00017249-00003

Message

From: Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]
Sent: 3/27/2019 6:19:32 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: Fw: End of Shift Update_03.26.2019_Kendra Bernhagen_Sam Cortez

Here you go!

From: Kendra Bernhagen
Sent: Wednesday, March 27, 2019 1:18 AM
To: Guadalupe Quiroz; Alma Jefferson; Kevin McLeod; Todd Thompson
Cc: Travis Lay; Tom Erny; Samuel Cortez
Subject: End of Shift Update_03.26.2019_Kendra Bernhagen_Sam Cortez

End of Shift Update_03.26.2019_Kendra Bernhagen_Sam Cortez

ERC Kendra took an overflight with Anthony Buck, CID to observe the impacted tank farm, Tucker Bayou, and the Huston Ship Channel. The team observed a few pockets of material that had not been addressed by USCG or ITC. USCG has been made aware of these areas and are addressing the spots that may have been missed.

A tactics meeting took place at 1400 hours where tactics for March 27, 2019 were discussed and finalized.

A planning meeting took place with Unified Command and general stall at 1700 hours. The IAP for the next operating period was presented and agreed upon by Unified Command.

Currently tank 80-7 is empty of product but has foam layer. Tank 80-10, 80-14 and 80-15 are all being marked as empty by the incident commander. 80-13 has lost suction and is currently being assessed to determine emptiness.

80-3 transfer tap was unsuccessful, US Fire Pump will water cut the tank and use a hose to suck the tank out.

Tucker Bayou operations are currently utilizing one skimmer, and two vac trucks that are then going to tank 80- 18. Currently tank 80-18 is holding 55,256 barrels of material

USA Environmental is utilizing 6 vac trucks that are vacuuming out the ditches and then moving the material to tank 100-28.

Worked with ITC on wastewater issues that the region had concerns about. See below for information:

The outfall was closed/shutdown on March 13, 2019 (time of shutdown to be provided by ITC at a later time), for the purposes of ensuring that water levels in the wastewater treatment feed tank (60-1) remain above 20 feet to maintain Chemical Oxygen Demand (COD) levels. Tank 60-1 is the primary feed tank for collecting process/contact water and has a 20-foot action level for preventing COD issues. If the tank falls below 20 feet, the potential for COD problems are present.

The facility does have concerns that the chemical drain collection system did capture some of the foam and the fire water from initial fire response operations. However, the facility does not have concerns that materials stored in the impacted tanks have breached the collection systems.

The 2nd 80s tank farm has been isolated from the wastewater treatment plant (WWTP) and no materials from that tank farm can be received by the WWTP. The facility will look into exactly when the tank farm was isolated. However, it is known that the tank farm lost power within minutes of the start of the fire on March 17, 2019. The 1st 80s tank farm also lost power at the start of the incident. The 3rd 80s tank farm, which is the tank farm that contains 60-1 and 80-34 lost power on the evening of March 17, 2019. The truck rack located between the 2nd and 3rd 80s tank farms, and the rail rack on the west side of the 3rd 80s tank farm, also lost power on the evening of March 17, 2019. All of these areas are points that foam and fire water could have made their way into the collection systems.

On March 17, 2019, the WWTP lost power in which the feed tanks were unable to pump wastewater to the biotreatment process. Currently, the wastewater system is not recirculating due to no power. To ensure that the bugs/microorganisms responsible for treatment are maintained the facility is feeding them in the meantime to maintain stability of the system. However, Tank 60-1 and 80-34 lost power on the evening of March 17, 2019 and power has not been restored. Power is expected to return as early as tomorrow, March 27, 2019. When power is restored the tanks will be included in the recirculation process for further treatment.

The initial height of the wastewater tanks pre-fire on Sunday morning was 22 feet 5 inches on 60-1 and on 80-34 was 8 foot 1 inch. The max safe fill for tank 60-1 is 43 feet 6 inches and on 80-34 the max safe fill is 63 feet 5 inches. Currently the tanks are both at 37 feet.

The Emergency Response Plan and the Facility Response Plan (the FRP could possibly have personal information, please do not distribute outside the agency) was provided by ITC.

The response regarding ITCs comments to TCEQs Fire concerns was provided to Spill12 please see the responses below:

Fire Improvements – items to address:

- **TCEQ Comment:** Identification of current leadership in IAP and related documents to be current. It has been noted that Dwight Williams; Chris Ferrara have departed and possibly John Snyder departed today.
    - **ITC Response:** ITC has been updating the IAP on a daily basis to reflect any changes in shift supervisors. The IAP issued this morning (March 26) lists Ryan Nawrocki and John Snyder as supervisors for US Fire Pump. Chris Ferrara has returned to the site. John Snyder is expected to continue assisting on site.
- **TCEQ Comment:** No fire suppression ring around the tank farm.
    - **ITC Response:** ITC has had monitors capable of deploying foam to any location within the tank farm since March 19. ITC continues to evaluate the tank farm and has deployed additional monitors and dry chemical units as needed. At present, ITC has three dry chemical units deployed

at the southwest corner of the tank farm and has monitor trailers positioned at the following locations:

- North of the tank farm;
- South of the tank farm;
- Northwest corner of the tank farm;
- Northeast corner of the tank farm;
- Southeast corner of the tank farm;
- Southwest corner of the tank farm; and
- West along Tidal Road.

- **TCEQ Comment:** How often is foam being applied? Do not apply foam if it's not necessary.
  - **ITC Response:** ITC has been actively monitoring foam coverage with drones, visual inspections, and air monitoring. ITC applies foam only as necessary to provide an adequate foam blanket for fire suppression and emissions control purposes.
- **TCEQ Comment:** Fire monitors do not appear to be manned at all times.
  - **ITC Response:** Fire monitors are monitored at all times and US Fire Pump employees are standing by and available to take immediate control of fire monitors through remote operation. ITC is also monitoring the area closely to determine any actions necessary to ensure a consistent foam blanket.

Environmental Improvements – items to address:

- **TCEQ Comment:** Improve engineering controls including containment of runoff into Tucker Bayou.
  - **ITC Response:** ITC continues to deploy boom as needed and to evaluate containment options that would be valuable and are viable. In particular, ITC added an additional underflow dam on March 25 near the intersection of the Tidal Road ditch and Tucker Bayou.
- **TCEQ Comment:** Water from underflow dam in ditch near gate 13 from Tidal Rd continues to allow migration of product to Tucker Bayou and out toward the ship channel.
  - **ITC Response:** ITC has taken steps to prevent further migration of product to Tucker Bayou and out toward the ship channel in connection with the breach of secondary containment. Specifically, ITC expects that the additional underflow dam installed on March 25 will help to further alleviate the issue. ITC also continues to deploy boom.
- **TCEQ Comment:** Containment at Tidal Rd / Tucker Bayou bridge needs attention. Better boom deployment or another underflow dam should be constructed and a vac truck in place to catch as much product as possible before it migrates off site.
  - **ITC Response:** ITC has improved containment at the Tidal Rd/Tucker Bayou bridge. ITC added an additional underflow dam near the bridge on March 25 and continues to deploy boom. ITC has

used and continues to use vac trucks along the Tidal Road ditch to catch as much product as possible.

The documentation plan was revisited with ITC and comments were provided by EPA and TCEQ, a draft has been sent to Jess Robinson to review and provide any additional comments.

EPA and TCEQ had conversations with ITC about the status of Tucker Bayou. The facility wants to start flushing Tucker Bayou in an attempt to remove residual material that may still be in it and push it towards the boom to make removing the material easier. This will be discussed with USCG, EPA, and TCEQ further in the morning.

A conversation was had with Nicole over the ITC water sampling plan. Initial thoughts and comments are to provide ITC with the TCEQ plan and EPA plan and to request that their plan closely mirror the two plans already created. The ITC plan has been sent to the TCEQ Water Division Director.

Message

From: ITC Response [itcresponse@iterm.com]
Sent: 3/25/2019 6:58:30 PM
To: 'amy.calvin@nbcuni.com' [amy.calvin@nbcuni.com]; 'Andrew Aleman (aaleman@ci.pasadena.tx.us)' [aaleman@ci.pasadena.tx.us]; 'Angela Barajas (angela.barajas@cnn.com)' [angela.barajas@cnn.com]; 'anthony.cusumano@nbcuni.com' [anthony.cusumano@nbcuni.com]; 'aphouston@ap.org' [aphouston@ap.org]; 'assignments@khou.com' [assignments@khou.com]; 'brian.balboa@spglobal.com' [brian.balboa@spglobal.com]; 'citydesk@chron.com' [citydesk@chron.com]; 'david.wade@oem.hctx.net' [david.wade@oem.hctx.net]; 'desk@kprc.com' [desk@kprc.com]; 'eang@opisnet.com' [eang@opisnet.com]; 'erwin.seba@thomsonreuters.com' [erwin.seba@thomsonreuters.com]; 'fbengochea@ci.pasadena.tx.us' [fbengochea@ci.pasadena.tx.us]; 'fhart@deerparktx.org' [fhart@deerparktx.org]; 'fmartin@houstonpublicmedia.com' [fmartin@houstonpublicmedia.com]; 'fox26houstonnews@foxtv.com' [fox26houstonnews@foxtv.com]; 'francisco.sanchez@oem.hctx.net' [francisco.sanchez@oem.hctx.net]; 'gabe.gutierrez@nbcuni.com' [gabe.gutierrez@nbcuni.com]; 'gary.mcwilliams@tr.com' [gary.mcwilliams@tr.com]; 'gauthierk@laportetx.gov' [gauthierk@laportetx.gov]; 'gerryfernandez@mac.com' [gerryfernandez@mac.com]; 'godofredo.vasquez@chron.com' [godofredo.vasquez@chron.com]; 'hollie.silverman@turner.com' [hollie.silverman@turner.com]; ITC Cares [ITCCares@iterm.com]; 'ivory.hecker@foxtv.com' [ivory.hecker@foxtv.com]; 'J. Blundau (jblundau@khou.com)' [jblundau@khou.com]; 'jeff.ehling@abc.com' [jeff.ehling@abc.com]; 'jesrivera@univision.net' [jesrivera@univision.net]; 'jrogalski@khou.com' [jrogalski@khou.com]; 'Juan.Rodas@nbcuni.com' [Juan.Rodas@nbcuni.com]; 'kateamclean@gmail.com' [kateamclean@gmail.com]; 'katherine.blunt@wsj.com' [katherine.blunt@wsj.com]; 'Kimberly Flores (Kimberly.Flores@nbcuni.com)' [Kimberly.Flores@nbcuni.com]; 'ktmd_newsdesk@telemundo.com' [ktmd_newsdesk@telemundo.com]; 'ktrk.news.releases@abc.com' [ktrk.news.releases@abc.com]; 'ktrk.newsalerts@ktrk.com' [ktrk.newsalerts@ktrk.com]; 'lindsey.henry@foxtv.com' [lindsey.henry@foxtv.com]; 'Lozano (lozano@ap.org)' [lozano@ap.org]; 'Lozano, Juan' [jlozano@ap.org]; 'luciapressreleases@gmail.com' [luciapressreleases@gmail.com]; 'M Hubbell (mhubbell@tdecw.org)' [mhubbell@tdecw.org]; 'maguzman@univision.net' [maguzman@univision.net]; 'margaret.downing@houstonpress.com' [margaret.downing@houstonpress.com]; 'matt.dempsey@chron.com' [matt.dempsey@chron.com]; 'Meredith.amor@nbcuni.com' [Meredith.amor@nbcuni.com]; 'Natalie.valdes@nbcuni.com' [Natalie.valdes@nbcuni.com]; 'neighborhoods@chron.com' [neighborhoods@chron.com]; 'news@39online.com' [news@39online.com]; 'news@abc13.com' [news@abc13.com]; 'news@chron.com' [news@chron.com]; 'news@houstonpublicmedia.org' [news@houstonpublicmedia.org]; 'news@ktrh.com' [news@ktrh.com]; 'newsdesk@fox26.com' [newsdesk@fox26.com]; 'newstips@khou.com' [newstips@khou.com]; 'nicole.hensley@chron.com' [nicole.hensley@chron.com]; 'Nieves, Nathalie (NievesN@cbsnews.com)' [NievesN@cbsnews.com]; 'oemjic@oem.hctx.net' [oemjic@oem.hctx.net]; 'philip.rosenbaum@cbs.com' [philip.rosenbaum@cbs.com]; 'radamsheard@bloomberg.net' [radamsheard@bloomberg.net]; 'randy.wallace@foxtv.com' [randy.wallace@foxtv.com]; 'rebecca.schuetz@chron.com' [rebecca.schuetz@chron.com]; 'rhemminger@deerparktx.org' [rhemminger@deerparktx.org]; 'rosanchez@univision.net' [rosanchez@univision.net]; 'Rosio.Torres-Segura@oem.hctx.net' [Rosio.Torres-Segura@oem.hctx.net]; 'samantha.ketterer@chron.com' [samantha.ketterer@chron.com]; 'ssimon@tribunemedia.com' [ssimon@tribunemedia.com]; 'Steve.Campion@abc.com' [Steve.Campion@abc.com]; 'tammy.leitner@nbcuni.com' [tammy.leitner@nbcuni.com]; 'TaylorMillard@247newssource.com' [TaylorMillard@247newssource.com]; 'taylormillard@iheartmedia.com' [taylormillard@iheartmedia.com]; 'ted.oberg@abc.com' [ted.oberg@abc.com]; 'univision45@univision.net' [univision45@univision.net]; 'vtobben@bloomberg.net' [vtobben@bloomberg.net]; 'wmoquete@tribunemedia.com' [wmoquete@tribunemedia.com]; Alice Richardson [ARICHARDSON@iterm.com]; Craig Rouse [CRouse@iterm.com]; IT [it@iterm.com]; ITC Incident [itcincident@iterm.com]; Jane Chaya [JCHAYA@iterm.com]; Jenna Walters [jwalters@iterm.com]; Krista Rodriguez [krodriguez@iterm.com]; MKTG [MKTG@iterm.com]; Nicholas Lambron [nlambron@iterm.com]; Pasadena Security [pasadenasecurity@iterm.com]; Rebecca Jackson [RJACKSON@iterm.com]; Security [Security@iterm.com]; Security Force [securityforce@iterm.com]; Sheridon Ochoa [sochoa@iterm.com]; Yasuhito Oiwa [YOiwa@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]; Craig Rouse [CRouse@iterm.com]; IT [it@iterm.com]; ITC Incident [itcincident@iterm.com]; Jane Chaya [JCHAYA@iterm.com]; Jenna Walters [jwalters@iterm.com]; Krista Rodriguez [krodriguez@iterm.com]; MKTG [MKTG@iterm.com]; Nicholas Lambron [nlambron@iterm.com]; Rebecca Jackson [RJACKSON@iterm.com]; Security [Security@iterm.com]; Security Force [securityforce@iterm.com]; Yasuhito Oiwa [YOiwa@iterm.com]; 'rachel.moreno@fmo.hctx.net' [rachel.moreno@fmo.hctx.net]; 'Sean (sean@jettyapp.com)' [sean@jettyapp.com];

'samantha.ketterer@chron.com' [samantha.ketterer@chron.com]; Mason, Steve [mason.steve@epa.gov]; 'spill12@tceq.texas.gov' [spill12@tceq.texas.gov]; 'ryan.vise@tceq.texas.gov' [ryan.vise@tceq.texas.gov]

Subject: ITC Media Release Statement 23

Attachments: ITC Press Release Statement #23.pdf

All,

Please see attached updated release. Spanish to follow.

Regards,

ITC PIO Support Team

FOR IMMEDIATE RELEASE

DATE: March 25, 2019

UPDATE 23: Unified Command continues ITC Fire clean-up operations

HOUSTON — Unified Command continues clean-up operations at the Intercontinental Terminals Company LLC (ITC) facility, Tucker Bayou and Houston Ship Channel near Deer Park, Texas.

Since March 19, 2019, more than 1,100 federal, state and local first responders, agencies, and environmental cleanup contractors have been on the scene and actively assessing, booming and continuing to remove product from affected areas.

We continue to pump liquid out of tank 80-7 and have less than 6 inches (approximately 1,122 barrels or 47,127 gallons) remaining in the tank. The remaining liquid is mostly water.

ITC operational personnel are currently transferring product from 80-14 and will continue transferring product from tank 80-10 to tank 80-18 until tanks 80-14 and 80-10 are empty.

Tank 80-15 is empty.

We are still pumping product from the ditch using vacuum trucks and hoses. That product is being transferred to tank 100-28. We are still foaming the tank farm hourly to maintain a 2-foot level of foam.

We continue to monitor air and water quality. Updates are available on ITC's web page (www.iterm.com/news), as well as those of the responding agencies.

The Coast Guard Captain of the Port opened the San Jacinto River to allow for vessel traffic during daylight hours only. The Houston Ship Channel remains closed to traffic between Tucker Bayou and HSC Light 116 with the exception of coordinated vessel movement by the Coast Guard and closed for cargo operations from HSC Light 139 to HSC Light 129.

Tucker Bayou and the water adjacent ITC piers remain the primary impacted areas and the product is contained within booming. Overflights confirmed as of 1:30 p.m. on Sunday that the western leading edge of the product is located at Patrick Bayou and the eastern leading edge is at Old River, with pockets of additional product in the vicinity of Lynchburg Ferry and San Jacinto Port.

Booms have been deployed, covering Tucker Bayou, the ITC docks, Patrick Bayou, Old River, Carpenter Bayou, Battleship Texas, Santa Ana Bayou, the western shore of the mouth of the San Jacinto River, and the oyster beds located in Burnett Bay.

Incident Summary:

Response assets:

- Personnel assigned: 611
- Fire-fighting/rescue equipment: 64
- Product removal vehicles: 20

- Boom deployed: 27,000 feet
- Aircraft 5

Skimmers have recovered more than 30,952 barrels of oil water mixture as cleanup crews work 24 hours a day.

Recovered material:

- Oily water mixture 30,952 barrels removed from the water
- Pyrolysis gasoline (or Pygas) 12,647 barrels removed from tank 80-7

Our major goals for the next 24 hours:

- Continue to protect and remediate environmentally sensitive areas including waterways, marshes and land. Place additional boom across Tucker Bayou.
- Continue operations to remove product from tanks in the affected area while maintaining an appropriate foam barrier for vapor suppression and to mitigate any re-ignition potential.

Key Phone Numbers:

- Claims Hotline: 346-263-9766 – Please note this is the correct Claims Hotline number.

For more information contact:

Joint Information Center (JIC):

(832) 780-6739
www.itcresponse.com
ITCCares@iterm.com
@CaresITC

JIC hours:

- As of Monday, March 25, 2019 6 a.m. – 8 p.m. (7 days a week)

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/28/2019 1:35:24 AM
To: Mason, Steve [mason.steve@epa.gov]
CC: ran2@cdc.gov; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Jack Hanley [jah8@cdc.gov]; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Lyke, Jennifer [Lyke.Jennifer@epa.gov]
Subject: Fwd: Deer Park Fire SITREP #5
Attachments: SITREP-5_3.27.19 - Deer Park.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

> **From:** "Baker, David" <David.Baker@BSWHealth.org>
> **Date:** March 27, 2019 at 4:46:27 PM CDT
> **To:** "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, Steven D." <dbaker@UTMB.EDU>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
> **Subject: RE: Deer Park Fire SITREP #5**
>
> Let's try that again with attachment ☺

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

> **From:** Baker, David
> **Sent:** Wednesday, March 27, 2019 4:34 PM
> **To:** 'Young, Patrick' <young.patrick@epa.gov>; 'Snodgrass, Wayne R.' <wsnodgra@UTMB.EDU>; 'Martin, Thomas' <Thomas.Martin@ttuhsc.edu>; 'Melody Gardner' <MELODY.GARDNER@phhs.org>; 'Baker, Steven D.' <dbaker@UTMB.EDU>; 'Jaramillo, Jeanie' <Jeanie.Jaramillo@ttuhsc.edu>; 'Kelly Hogue' <KELLY.HOGUE@phhs.org>; 'Sal Baeza' <sbaeza@umcelpaso.org>; 'Veronica Stoller' <Stoller@uthscsa.edu>; 'Brett Roth' <Brett.Roth@UTSouthwestern.edu>; 'Dr. Varney' <Varney@uthscsa.edu>; 'Joshi, Prashant' <Prashant.Joshi@ttuhsc.edu>; Morrissey, Ryan P M.D. <Ryan.Morrissey@BSWHealth.org>; 'Sharilyn Stanley' <sharilyn.stanley@csec.texas.gov>; 'Borron, Stephen' <Stephen.Borron@ttuhsc.edu>; 'Hall,Emily (DSHS)' <Emily.Hall@dshs.texas.gov>; 'Stuteville,Haylea (DSHS)' <Haylea.Stuteville@dshs.texas.gov>; 'Kelli Merriweather' <kellim@csec.texas.gov>; 'James Johnson' <jamesmj@csec.texas.gov>; 'Kaitlyn Cross' <KAITLYN.CROSS@phhs.org>; 'Dawn Marchetto' <DAWN.MARCHETTO@phhs.org>
> **Subject:** Deer Park Fire SITREP #5

Here is today's Sit rep from poison center

First page – updates in red font – Thanks Patrick for the added information

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

The information contained in this e-mail may be privileged and/or confidential, and protected from disclosure, and no waiver of any attorney-client, work product, or other privilege is intended. If you are the intended recipient, further disclosures are prohibited without proper authorization. If you are not the intended recipient (or have received this e-mail in error) please notify the sender immediately and destroy this e-mail. Any unauthorized copying, disclosure or distribution of the material in this e-mail is strictly forbidden and possibly a violation of federal or state law and regulations. The sender and Baylor Scott & White Health, and its affiliated entities, hereby expressly reserve all privileges and confidentiality that might otherwise be waived as a result of an erroneous or misdirected e-mail transmission. No employee or agent is authorized to conclude any binding agreement on behalf of Baylor Scott & White Health, or any affiliated entity, by e-mail without express written confirmation by the CEO, the Senior Vice President of Supply Chain Services or other duly authorized representative of Baylor Scott & White Health.

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/29/2019 9:36:24 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]
CC: Renee Funk (CDC/ONDIEH/NCEH) [rfunk@cdc.gov]; Jack Hanley [jah8@cdc.gov]; Lyke, Jennifer [Lyke.Jennifer@epa.gov]; michael.k.sams@uscg.mil; ran2@cdc.gov; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]
Subject: Fwd: TPCN_SITREP_7 3.29.19
Attachments: image001.png; ATT00001.htm; TPCN_SITREP-7_3.29.19 - Deer Park.docx; ATT00002.htm

Sent from my iPhone

Begin forwarded message:

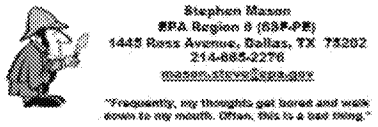
From: "Baker, Steven D." <dbaker@UTMB.EDU>
Date: March 29, 2019 at 2:54:44 PM CDT
To: "Baker, David" <David.Baker@BSWHealth.org>, "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, "Kelli Merriweather" <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, "Dawn Marchetto" <DAWN.MARCHETTO@phhs.org>
Subject: RE: TPCN_SITREP_7 3.29.19

S. David Baker, PharmD, DABAT, FAACT
Director - Interim
Southeast Texas Poison Center
Office phone 409.772.3306

Message

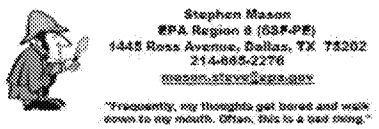
From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/27/2019 2:47:12 AM
To: travis.lay@tceq.texas.gov
Subject: Benzene Monitoring Slide -- EPA START
Attachments: ITC Fire -- Benzene Monitoring -- Community -- 03-26-2019.pdf

With Regards, Steve



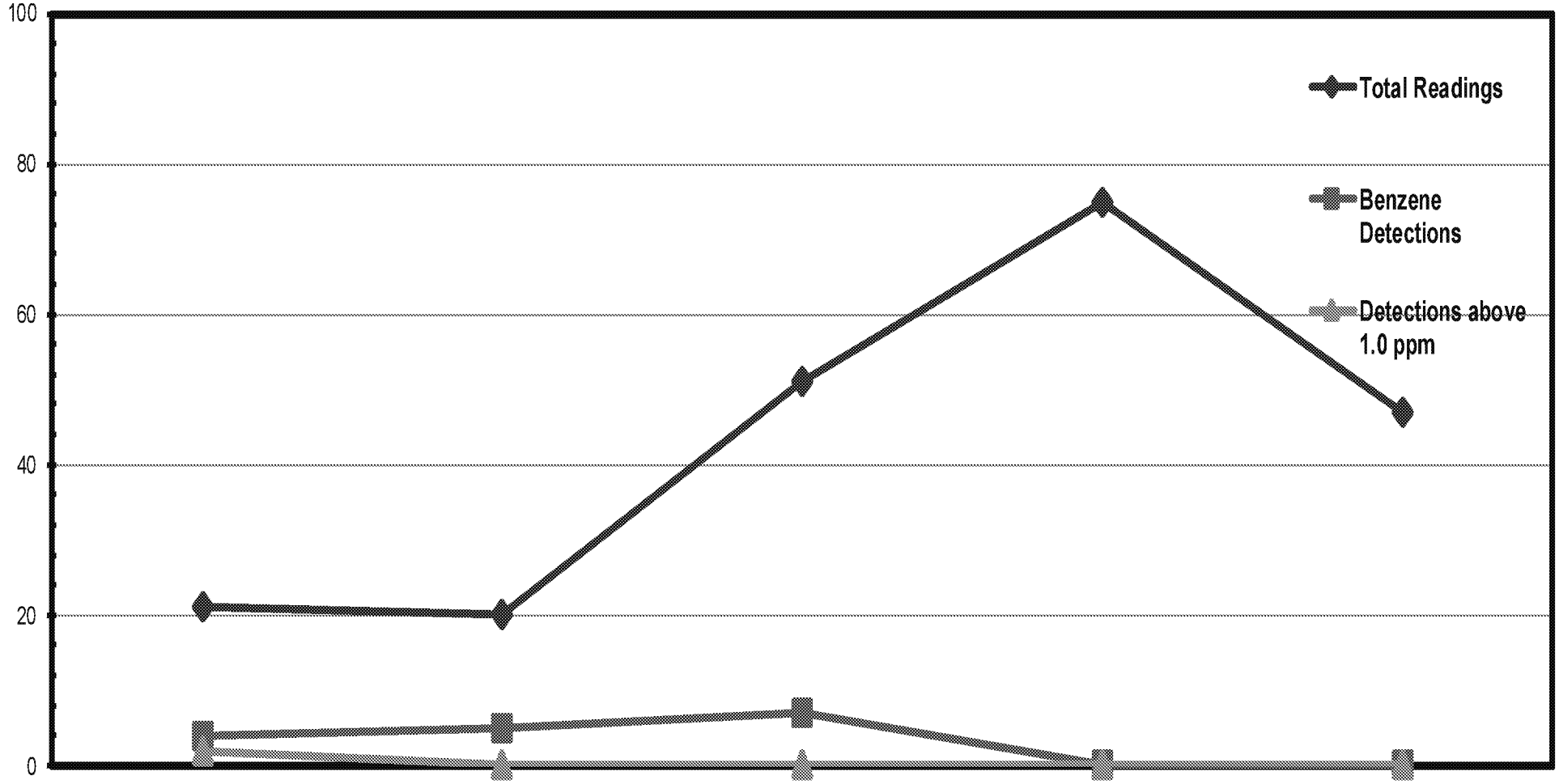
From: Mason, Steve
Sent: Tuesday, March 26, 2019 9:32 PM
To: 'Neil Daniell' <NDaniell@css-inc.com>
Subject: Slide

With Regards, Steve



START Benzene Monitoring - Community - 03/14 - 30/26/2019

3/26/2019



	03/21	03/22	03/23	03/24	03/25
Total Readings	21	20	51	75	47
Benzene Detections	4	5	7	0	0
Benzene Detections above action level (>1.0 ppm)	2	0	0	0	0

Message

From: Neil Daniell [NDaniell@css-inc.com]
Sent: 3/29/2019 12:04:03 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: Fwd: Data Request
Attachments: ATT00001.txt; R6_DP_Air_Monitoring.xlsx

Please see attached.

Begin forwarded message:

From: David Cook <david.cook@westonsolutions.com>
Date: Mar 29, 2019 at 6:24 AM
To: Neil Daniell <ndaniell@css-inc.com>
Subject: RE: Data Request

Attached is all the data. TCEQ is left off this as data team wants to review data before reporting. Go ahead and filter on what you need.

Let me know with further connectivity issues as they arise.

David Cook
START R6 IT/Data Management Lead
Weston Solutions, Inc.
(469) 666-5505 Direct
(512) 970-8836 Cell

From: Neil Daniell [mailto:NDaniell@css-inc.com]
Sent: Friday, March 29, 2019 2:33 AM
To: Cook, David <David.Cook@WestonSolutions.com>
Subject: Data Request

**** External Email ****
Hi David! I have two data requests this AM:

1) The first request is the normal request. Please export all the START air monitoring results from midnight 3/28 to 1159 3/28/2019. Same format as the usual data export for the reporting periods.

2) The second request is to please export ALL the START air monitoring results from the beginning (~3/17) to 1159 3/28/2019. The same format as the usual data export for the reporting periods.

Thanks!

Neil

PS: I had to manual input all the data for Team 3 last night. He had connectivity issues. I don't think I created any duplicates, but I wasn't sure where Jordan left of on 3/27. Best I could tell, it was 3/4/19. So, please look closely.

From: Neil Daniell
Sent: Thursday, March 28, 2019 4:05 AM
To: 'Cook, David' <David.Cook@WestonSolutions.com>
Subject: RE: Export of Data for 3/23

Hi David! Could you please export all the START air monitoring results for midnight 3/27 to 1159 3/27/2019. Same format as the usual data export for the reporting periods. Thanks! Neil

From: Neil Daniell
Sent: Wednesday, March 27, 2019 4:28 AM
To: 'Cook, David' <David.Cook@WestonSolutions.com>
Subject: RE: Export of Data for 3/23

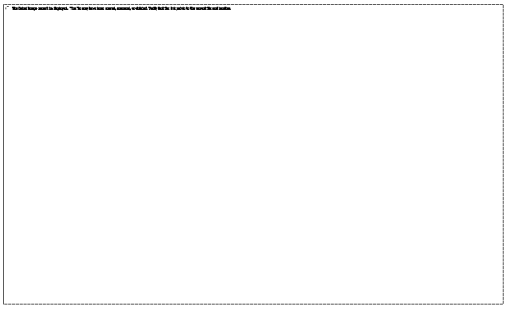
Hi David! Could you please export all the START air monitoring results for midnight 3/26 to 1159 3/26/2019. Same format as the usual data export for the reporting periods. Thanks! Neil

From: Neil Daniell
Sent: Tuesday, March 26, 2019 5:05 AM
To: 'Cook, David' <David.Cook@WestonSolutions.com>
Subject: RE: Export of Data for 3/23

Hi David! Could you please export all the START air monitoring results for midnight 3/25 to 1159 3/25/2019. Same format as the usual data export for the reporting periods. Thanks! Neil

From: Neil Daniell
Sent: Monday, March 25, 2019 1:19 AM
To: Cook, David <David.Cook@WestonSolutions.com>
Subject: RE: Export of Data for 3/23

Hi David! Could you please export all the START air monitoring results for midnight 3/24 to 1159 3/24/2019. Same format as the usual data export for the reporting periods. Thanks! Neil



From: Cook, David <David.Cook@WestonSolutions.com>
Sent: Sunday, March 24, 2019 4:49 AM
To: Latham, Benjamin <Benjamin.Latham@WestonSolutions.com>

Cc: Neil Daniell <NDaniell@css-inc.com>
Subject: RE: Export of Data for 3/23

Attached.

David Cook
START R6 IT/Data Management Lead
Weston Solutions, Inc.
(469) 666-5505 Direct
(512) 970-8836 Cell

From: Latham, Benjamin
Sent: Sunday, March 24, 2019 2:16 AM
To: Cook, David <David.Cook@WestonSolutions.com>
Cc: Neil Daniell <NDaniell@css-inc.com>
Subject: Export of Data for 3/23

Could you export all START air monitoring results for midnight 3/23 to 1159 3/23? Same format as the usual data export for the reporting periods. Thanks,
Ben

Benjamin J. Latham
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Monitoring Location	Date/Time	VOC (ppm)	LEL (%)	H2S (ppm)
1-1	3/17/2019 21:32	0	0	0
1-2	3/17/2019 22:01	0	0	0
1-3	3/17/2019 22:20	0	0	0
1-4	3/17/2019 22:37	0	0	0
1-5	3/17/2019 22:51	0	0	0
1-6	3/17/2019 23:13	0	0	0
1-7	3/17/2019 23:30	0	0	0
1-8	3/17/2019 23:45	0	0	0
AM01-18	3/18/2019 0:15	0	0	0
2-1	3/18/2019 2:36	0	0	0
2-2	3/18/2019 2:48	0	0	0
2-3	3/18/2019 2:57	0	0	0
2-4	3/18/2019 3:06	0	0	0
2-5	3/18/2019 3:18	0	0	0
2-6	3/18/2019 3:29	0	0	0
AM01-1	3/18/2019 11:02	0	0	0
AM01-2	3/18/2019 11:30	0	0	0
AM01-3	3/18/2019 11:50	0	0	0
AM01-4	3/18/2019 12:30	0	0	0
AM01-5	3/18/2019 12:42	0	0	0
AM01-6	3/18/2019 12:51	0	0	0
AM01-7	3/18/2019 13:03	0	0	0
AM01-8	3/18/2019 13:12	0	0	0
2-7	3/18/2019 13:24	0	0	0
AM01-9	3/18/2019 13:26	0	0	0
1-10	3/18/2019 14:01	0	0	0
AM01-10	3/18/2019 14:11	0	0	0
1-11	3/18/2019 14:25	0	0	0
AM01-11	3/18/2019 14:30	0	0	0
1-12	3/18/2019 14:31	0	0	0
1-13	3/18/2019 14:37	0	0	0
AM01-12	3/18/2019 14:38	0	0	0
1-14	3/18/2019 14:44	0	0	0
AM01-13	3/18/2019 14:55	0	0	0
1-15	3/18/2019 15:00	0	0	0
AM01-14	3/18/2019 15:06	0	0	0
AM01-15	3/18/2019 15:16	0	0	0
AM01-16	3/18/2019 15:26	0	0	0
AM01-17	3/18/2019 15:37	0	0	0
1-16	3/18/2019 15:40	0	0	0
1-17	3/18/2019 15:55	0	0	0
1-18	3/18/2019 16:10	0	0	0
1-19	3/18/2019 16:20	0	0	0
2-8	3/18/2019 16:44	0	0	0
2-9	3/18/2019 16:52	0	0	0
2-10	3/18/2019 17:03	0	0	0

CO (ppm)	O2 (%)	Particulates (ug/m3)	Benzene (ppm)	Xylene (ppm)
0	20.9			
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Toluene (ppm)	Naptha (ppm)	Location Type
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Comments
East of 13th and Center St.
Northeast of Fleming Dr and Preston Rd
Walmart Parking Lot, southeast area
Forest Oaks Baptist Church
Walgreens parking lot
Meadowbrook Baptist Church
Food Town parking lot
Strip mall parking lot off Red Bluff Rd
W 13th St between Georgia and Scaco
Chevron Hwy 225
Pomeroy St. corner
Winona Dr.
Pasadena HS parking lot
Vince and Garfield St.
N. Park and Pitts Ave.
Park Row and Addicks Satsuma Rd
West of Katy Freeway and Barker Cyrpress Rd
Katy Freeway and Park Ten Blvd
Strafford High School
Southeast of Memorial Dr and Electra Dr
South of Briar Forest Dr and E. Rivercrest Dr
San Felipe St, between Kensington Ct and Piney Point Rd
Southwest of Memorial Dr and Longwoods Ln
Vista Rd and Independence Pkwy
West of the north end of St James Pl
Southeast of Drexler Dr and San Felipe St
North end of Georgia Ave, south of Hwy 225
Southeast of Kirby Dr and San Felipe St
Sunray Ln and Parkwood Dr
Vermont St and Driscoll St
Northeast of Fairview St and Windsor St
Red Bluff Rd and South St
South of Crocker St and Westheimer Rd
East of Pasadena Blvd and Burke Rd
McGowen St and Chenevert St
Southwest of Lafferty Rd and Fresa Rd
Spencer Hwy, between 7th and 8th St
College Ave, between Dallas St and Houston Blvd
Airport Blvd and Ruthby St
West of the west end of W 7th
Northeast of Hwy 225 and S Richley St
Jefferson Rd
Jefferson Rd and 1st St
Deerwood Business Park
UA Pipe Fitters union
Burger King southeast of East 13th and Center St

2-11	3/18/2019 17:10	0	0	0
1-20, NPL Patrick Bayou site	3/18/2019 20:32	0	0	0
1-21 NPL US Oil Recovery Site	3/18/2019 21:27	0	0	0
1-22 NPL Harris Farley st	3/18/2019 22:12	0	0	0
1-23 NPL Dixie Oil Processors site	3/18/2019 22:32	0	0	0
2-12	3/18/2019 22:35	0	0	0
1-24 NPL Brio Refining site	3/18/2019 22:42	0	0	0
2-13	3/18/2019 22:50	0	0	0
2-14	3/18/2019 23:00	0	0	0
2-15	3/18/2019 23:09	0	0	0
1-25 NPL site Geneva Industries/Furhamm Energy	3/18/2019 23:17	0	0	0
2-16	3/18/2019 23:18	0	0	0
2-17	3/18/2019 23:30	0	0	0
1-26 NPL Site Sol Lynn/ Industrial Transformers.	3/18/2019 23:42	0	0	0
2-18	3/19/2019 0:05	0	0	0
1-27 NPL Many Diversified Interests site	3/19/2019 1:22	0	0	0
1-27 NPL site South Cavalcade st	3/19/2019 1:40	0	0	0
1-29 NPL site North Cavalcade st	3/19/2019 1:48	0	0	0
1-30 NPL site Sikes Disposal Pits	3/19/2019 2:20	0	0	0
1-31 NPL site French ltd.	3/19/2019 2:31	0	0	0
1-32 NPL site Highlands Acid pit	3/19/2019 2:55	0	0	0
1-33 NPL site San Jacinto River Waste Pits	3/19/2019 3:26	0	0	0
1-34	3/19/2019 4:15	0	0	0
1-35	3/19/2019 4:26	0	0	0
1-36 (Clinton park)	3/19/2019 4:44	0	0	0
1-37	3/19/2019 9:27	0	0	0
1-38	3/19/2019 10:09	0	0	0
1-39	3/19/2019 13:59	0	0	0
1-40	3/19/2019 14:18	0	0	0
1-41	3/19/2019 14:43	0.1	0	0
1-42	3/19/2019 14:56	0	0	0
1-43	3/19/2019 15:11	0.1	0	0
1-44	3/19/2019 15:26	0.1	0	0
1-45	3/19/2019 15:39	0.1	0	0
1-46	3/19/2019 15:58	0	0	0
1-47	3/19/2019 16:17	0	0	0
1-48	3/19/2019 16:44	0	0	0
1-49	3/19/2019 17:08	0	0	0
1-50	3/19/2019 17:57	0	0	0
1-51	3/19/2019 18:06	1.8	0	0
1-52	3/19/2019 20:50	0	0	0
1-53	3/19/2019 21:09	0	0	0
1-54	3/19/2019 21:46	0	0	0
1-55	3/19/2019 22:04	0	0	0
1-56	3/19/2019 22:20	0	0	0
2-19	3/19/2019 22:43	0.26	0	0
1-57	3/19/2019 22:53	0	0	0

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End of Wynfield Dr
NPL site located within Oxy plant, air monitoring location as close as team 1 could get to the site before reaching controll
Could not gain access to site due to locked gate. Air monitoring point take on perimeter of site at gate.
Air monitoring point taken from the side of the road adjacent to landfill NPL site.
Monitoring point taken at site locked gate.
Below plume
Monitoring point collected across the road from the site due to availability of parking. Gate locked.
Residential beneath plume
Recreational park south edge of plume
Residential beneath plume.
Could not directly access NPL site due to road closure.
Residential beneath plume.
Residential north edge of plume
ITC yard beneath plume
Could not access site directly
Could not access site. Monitoring at road adjacent to site.
Gate to site locked, monitoring point taken at gate.
Could not access site.
Could not access site
Residential area, plume visible
Residential area, plume visible overhead.
Point taken in mount Zion church car park. Plume visible overhead, slightly north. Residential area
Jones Road Superfund Site
Crystal Chemical Superfund Site
Residential area
Residential area
Residential area
Herman Brown Park
Herman Brown Park
Farqueson St and Herald Ave
St Louis Ct and Homestead Rd
Residential area
Holland Middle School
ITC tank farm
Point taken at Jacinto City elementary school.
Point taken outside st Matthew Baptist church
East of site. Fire/plume significantly reduced. 0.26 ppm short spike, sustained 0.0. Vehicle traffic in area.

1-58	3/19/2019 23:11	0	0	0
2-20	3/19/2019 23:25	0	0	0
2-21	3/19/2019 23:31	0	0	0
1-59	3/19/2019 23:32	0	0	0
1-60	3/19/2019 23:47	0	0	0
1-61	3/20/2019 0:03	0	0	0
1-62	3/20/2019 2:00	0	0	0
1-63	3/20/2019 2:16	0	0	0
1-64	3/20/2019 2:25	0	0	0
1-65	3/20/2019 2:42	0	0	0
2-22	3/20/2019 2:53	0	0	0
2-23	3/20/2019 3:02	0	0	0
2-24	3/20/2019 3:09	0	0	0
2-25	3/20/2019 3:23	0	0	0
1-66	3/20/2019 3:39	0	0	0
1-67	3/20/2019 4:00	0	0	0
1-68	3/20/2019 4:13	0	0	0
1-69	3/20/2019 4:24	0	0	0
1-70	3/20/2019 4:32	0	0	0
1-71	3/20/2019 4:45	1.6	0	0
1-72	3/20/2019 4:52	0.4	0	0
1-73	3/20/2019 5:01	2	0	0
1-71-2	3/20/2019 7:55	0	0	0
1-73	3/20/2019 8:59	0	0	0
1-74	3/20/2019 9:45	0	0	0
1-75	3/20/2019 10:11	0	0	0
1-76	3/20/2019 11:30	0	0	0
I-77	3/20/2019 11:38	0	0	0
I-79	3/20/2019 12:17	2.8	0	0
I-80	3/20/2019 13:20	0	0	0
1-81	3/20/2019 14:42	0	0	0
1-82	3/20/2019 14:59	0	0	0
1-83	3/20/2019 15:05	0	0	0
1-84	3/20/2019 15:15	0	0	0
1-85	3/20/2019 15:55	0	0	0
1-86	3/20/2019 16:02	0	0	0
1-87	3/20/2019 16:06	0	0	0
1-89	3/20/2019 16:20	0	0	0
1-89	3/20/2019 16:30	0	0	0
1-90	3/20/2019 16:42	0	0	0
1-91	3/20/2019 17:11	0	0	0
1-92 J.P. Bonnette JHS	3/20/2019 21:43	0	0	0
1-93 Carpenter Elem	3/20/2019 21:57	0	0	0
2-26	3/20/2019 22:19	0	0	0
2-27	3/20/2019 22:25	0	0	0
2-28	3/20/2019 22:31	0	0	0
1-94 Deer Park North HS	3/20/2019 22:34	0	0	0

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Reading collected at garden oaks elementary school
Downwind of site at port

Deepwater Elementary School
Industrial area. Calm winds.

San Jacinto Elementary School

Point taken at Deer Park Performing Arts High School

Deer park city hall
Benzene reading of 0.35ppm
Benzene reading at 0.25 ppm
Benzene reading at 0.7 ppm
Follow up to confirm previous voc/benzene detection. Vocs/benzene not detected. Winds remain out of northeast appro

La Porte High School
La Porte Elementary
Benzene 0.9 ppm

Channelview High School
Early Childhood Center
Alice Johnson Junior High School
Harvey Brown Elementary School
Anthony Aguirre Junior High
B. H. Hamblen
Cobb Elementary School
Channelview Elementary Support Center
Mac F. McMullan Primary
Schocler Elementary
De Zavala Elementary

Galena Park Elementary School
Galena Park Middle School
Galena Park High School

S-29	3/20/2019 22:38	0	0	0
1-95 DPHA Wolters Campus	3/20/2019 22:40	0	0	0
2-30	3/20/2019 22:49	0	0	0
1-96 Deer Park JHS	3/20/2019 22:52	0	0	0
1-97 San Jacinto elem	3/20/2019 23:05	0	0	0
2-31	3/20/2019 23:09	0	0	0
2-32	3/20/2019 23:18	0	0	0
2-33	3/20/2019 23:23	0	0	0
2-34	3/20/2019 23:42	0	0	0
2-35	3/20/2019 23:52	0	0	0
2-36	3/20/2019 23:56	0	0	0
2-37	3/21/2019 0:00	0	0	0
2-38	3/21/2019 0:08	0	0	0
1-99 J. P. Dabbs elem	3/21/2019 0:09	0	0	0
2-39	3/21/2019 0:11	0	0	0
1-100 Deer Park elem	3/21/2019 0:19	0	0	0
2-40	3/21/2019 0:23	0	0	0
1-101 College Park elem	3/21/2019 0:31	0	0	0
2-41	3/21/2019 0:35	0	0	0
1-102 Lomax JHS	3/21/2019 0:44	0	0	0
2-42	3/21/2019 0:45	0	0	0
2-43	3/21/2019 0:50	0	0	0
1-103 Lomax elem	3/21/2019 0:55	0	0	0
2-44	3/21/2019 0:58	0	0	0
2-45	3/21/2019 1:01	0	0	0
2-46	3/21/2019 1:08	0	0	0
1-104 Baker JHS	3/21/2019 1:09	0	0	0
2-47	3/21/2019 1:15	0	0	0
2-48	3/21/2019 1:19	0	0	0
1-105 Leo Rizzuto elem	3/21/2019 1:19	0	0	0
2-49	3/21/2019 1:31	0	0	0
1-106 Jennie Reid elem	3/21/2019 1:36	0	0	0
2-50	3/21/2019 1:39	0	0	0
1-107	3/21/2019 2:02	0	0	0
1-108	3/21/2019 2:14	0	0	0
2-51	3/21/2019 2:39	0	0	0
1-109 San Jacinto College	3/21/2019 3:05	0	0	0
2-52	3/21/2019 3:13	0	0	0
1-110 Fairmont elem	3/21/2019 3:16	0	0	0
2-53	3/21/2019 3:17	0	0	0
1-111 Fairmont JHS	3/21/2019 3:24	0	0	0
2-54	3/21/2019 3:28	0	0	0
2-55	3/21/2019 3:33	0	0	0
1-112	3/21/2019 3:53	0	0	0
2-56	3/21/2019 4:02	0	0	0
2-57	3/21/2019 4:09	2.2	0	0
1-113 Parkwood elem	3/21/2019 4:19	0	0	0

0	20.9	10.7
0	20.9	4.7
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0	20.9	4.2
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0	20.9	14.9
0	20.9	13.6
0	20.9	7
0	20.9	15.2
0	20.9	14.7
0	20.9	17.6
0	20.9	5.5
0	20.9	16.5
0	20.9	15.7
0	20.9	4.8
0	20.9	14.6
0	20.9	4.7
0	20.9	15.9
0	20.9	5.8
0	20.9	4.8
0	20.9	14.6
0	20.9	10.9
0	20.9	11.5
0	20.9	10.1
0	20.9	11.5
0	20.9	9
0	20.9	15.1
0	20.9	13.6
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MacArthur Elementary School

Pyburn Elementary
Woodland Acres Elementary
Woodland Acres Middle School
Cimmarron Elementary
Green Valley Elementary
North Shore High School
Joyce Zotz Education Ctr.
North Shore Elementary

Cloverleaf Elementary

Sam Houston Elementary

Normandy Crossing Elementary

Cunningham Middle School
Tice Elementary

North Shore Middle School
Harvard Elementary
North Shore Sr. HS

Cobb 6th Grade
Freedom Elementary

Purple Sage

San Jacinto College North / CTE Early College

Gethsemane Missionary Baptist Church

Sheldon Elementary

Sheldon early Learning Center/Intermediate School

High point School East
Royalwood Elementary

0.00 benzene
Benzene 1.5 ppm

2-58	3/21/2019 4:25	0.3	0	0
1-114	3/21/2019 4:29	0	0	0
2-59	3/21/2019 4:32	1	0	0
2-60	3/21/2019 4:40	0	0	0
2-61	3/21/2019 4:44	0	0	0
2-62	3/21/2019 4:48	0	0	0
2-63	3/21/2019 4:52	0	0	0
2-64	3/21/2019 5:14	1.8	0	0
1-115 CEKing	3/21/2019 5:15	0	0	0
1-116 Kase Academy	3/21/2019 5:19	0	0	0
1-117 C E King HS	3/21/2019 5:25	0	0	0
2-65	3/21/2019 5:25	2	0	0
2-66	3/21/2019 5:30	0	0	0
1-118 craven early childhood	3/21/2019 5:33	0	0	0
1-119	3/21/2019 5:41	0	0	0
1-120 H M Carol elem	3/21/2019 5:49	0	0	0
1-121 Michael R. null MS	3/21/2019 5:58	0	0	0
1-122 Garrett elem	3/21/2019 6:06	0	0	0
1-123	3/21/2019 9:26	0	0	0
1-124	3/21/2019 9:40	0	0	0
1-125	3/21/2019 9:56	0	0	0
1-126	3/21/2019 10:51	0	0	0
1-127	3/21/2019 11:17	0	0	0
1-128	3/21/2019 11:34	0	0	0
1-129	3/21/2019 11:46	0	0	0
1-130	3/21/2019 11:58	0	0	0
1-131	3/21/2019 12:29	0	0	0
1-133	3/21/2019 14:19	0	0	0
1-133	3/21/2019 15:16	0	0	0
1-13	3/21/2019 15:38	0	0	0
1-135	3/21/2019 15:49	0	0	0
1-136	3/21/2019 16:16	0	0	0
1-137	3/21/2019 16:23	0	0	0
1-138	3/21/2019 16:33	0	0	0
1-139	3/21/2019 17:38	0	0	0
1-139	3/21/2019 21:17	0	0	0
1-140	3/21/2019 21:32	0	0	0
1-141	3/21/2019 21:48	0	0	0
1-142	3/21/2019 22:01	0	0	0
1-143	3/21/2019 22:13	0	0	0
1-145	3/21/2019 22:28	0	0	0
1-146	3/21/2019 22:44	0	0	0
1-148	3/21/2019 23:09	0	0	0
1-149	3/22/2019 0:39	0	0	0
1-150	3/22/2019 0:50	0	0	0
1-151	3/22/2019 1:14	0	0	0
1-152	3/22/2019 1:23	0	0	0

0	20.9	
0	20.9	7.9
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0	0	
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0	20.9	12.4
0	20.9	13.8
0	20.9	11.8
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0	20.9	36.7
0	20.9	11.3
0	20.9	8.3
0	20.9	8.2
0	20.9	9.3
0	20.9	44
0	20.9	44.3
0	20.9	12.2
0	20.9	5.2
0	20.9	5.9
0	20.9	6.8
0	20.9	5.8
0	21.1	4.2
0	21.1	4.4
0	21.2	7.2
0	21.1	8.3
0	20.9	8.7
0	20.9	7.5
0	20.9	8.1
0	20.9	9.2
0	20.9	5.6
0	20.9	5.5
0	20.9	2.8
0	20.9	3
0	20.9	2.6
0	20.9	8.4
0	20.9	2.3
0	20.9	3.4
0	20.9	2.9
0	20.9	3.2
0	20.9	7.2
0	20.9	4.1
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.55 benzene winds out of north

East Blvd and 13th; benzene .35 ppm
East and X St. ; benzene 0.00 ppm
East and St Augustine; benzene 0.00 ppm
East and P st.; benzene 0.00 ppm
Near east and Pasadena; benzene 0.00
Benzene 1.8 ppm.

Benzene 1.8 ppm
Benzene 0.00 ppm

Residential Area
Parking lot of Church's Chicken
Alistair Ave and Bearle St
JD Parks Elementary
San Augustine Ave and Alecia Dr
Deer Park High School South Campus
Lanell St and Luella Ave
Deerwood Dr and Robinwood Dr
Holiday Inn Deer Park
REI parking lot
Gethsemane Missionary
Pleasantville Elementary School
End of Pleasantville Drive
Burger King parking lot
Port Houston Elementary School
Furr High School
Intersection of Echo Bluff and Spencer Highway

DeWalt school

PDR not working. W Nazro St and Elm St
PDR not working. Arbor St and Bayway Dr

1-154	3/22/2019 1:42	0	0	0
1-155	3/22/2019 1:47	0	0	0
2-67	3/22/2019 2:23	0	0	0
2-68	3/22/2019 2:34	0	0	0
1-155	3/22/2019 2:39	0.3	0	0
2-69	3/22/2019 2:43	0	0	0
2-70	3/22/2019 2:57	0	0	0
2-71	3/22/2019 3:02	0	0	0
1-156	3/22/2019 3:31	0	0	0
1-157	3/22/2019 3:49	0	0	0
1-158	3/22/2019 3:58	0	0	0
1-159	3/22/2019 4:10	0	0	0
1-160	3/22/2019 4:20	0	0	0
1-161	3/22/2019 4:37	0	0	0
1-162	3/22/2019 9:32	0	0	0
1-163	3/22/2019 10:05	0	0	0
1-164	3/22/2019 10:54	0	0	0
1-165	3/22/2019 10:59	0	0	0
1-166	3/22/2019 11:12	0	0	0
1-167	3/22/2019 11:30	0	0	0
1-168	3/22/2019 11:37	0	0	0
1-169	3/22/2019 11:54	0	0	0
1-170	3/22/2019 14:03	0	0	0
1-171	3/22/2019 14:46	0	0	0
1-172	3/22/2019 15:29	0	0	0
1-173	3/22/2019 16:17	0	0	0
1-174	3/22/2019 16:46	0	0	0
1-175	3/22/2019 17:34	0	0	0
1-176	3/22/2019 17:43	0	0	0
1-177	3/22/2019 17:55	0	0	0
1-178	3/22/2019 18:05	0	0	0
1-179	3/22/2019 21:52	0	0	0
1-180	3/22/2019 22:00	0	0	0
1-181	3/22/2019 22:06	0	0	0
1-182	3/22/2019 22:12	0	0	0
1-183	3/22/2019 22:21	0	0	0
1-184	3/22/2019 22:34	0	0	0
1-184	3/22/2019 22:43	0	0	0
1-185	3/22/2019 22:53	0	0	0
1-186	3/22/2019 23:11	0	0	0
1-187	3/22/2019 23:24	0	0	0
1-188	3/22/2019 23:26	0	0	0
1-189	3/22/2019 23:33	0	0	0
1-190	3/23/2019 0:02	0	0	0
1-191	3/23/2019 0:11	0	0	0
1-192	3/23/2019 0:16	0	0	0
1-193	3/23/2019 0:18	0	0	0

0	20.9			
0	20.9			
0	20.9	8.3		
0	20.9	6.9		
0	20.9		0.35	0
0	20.9	8.7		
0	20.9	7.9		
0	20.9	8.8		
0	21.3	0		
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0	20.9	13.5		
0		24.4		
0	20.9	11.3		
0	20.9	11		
0	20.9	10.3		
0	20.9	12.9		
0	20.9	13.5		
0	20.9	12.8		
0	20.9	12.8		
0	20.9	17		
0	20.9	13.8		
0	20.9	13.5		
0	20.9	11.7		
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PDR not working. Bayway Dr and Park St
PDR not working.
Lynchburg downwind of site.
S ilfrey st downwind
Reading on Draeger showed <10 ppm which is the minimum detection limit of the device ; PDR not working; Yaupon Dr s
Hillcrest Ln
Burnett Dr.
S Burnett Dr.
PDR not working. Mossey Oak Dr and Hwy 330
PDR not working. Bayou Dr and Avenue A
PDR not working. Middle of 2nd St
PDR not working. Avenue C and Sheldon Rd
Grand St and Avenue C, PDR not working
PDR not working. Alastair Dr and Bearle St
Discount Tire parking lot
Mayflower and Calhoun
W Texas Ave and N Atlantic St
Goose Creek Park
W Texas Ave and S Ashbel St
George Washington Carver Elementary
Baytown Community Center
Sens Rd and 225
Parking lot of King's Biergarten
Kelly Lane and Cannon Road
Latma Ct and Latma
Phillips 66 Gas Station
Ethyl Corporation
Barbara Mae and Bandera
Greenville St, Slightly west of plume
14420 Longview St, Directly under plume
Nimitz Street, directly under plume
Center/ S Kilgore Ave
Center/ S Ilfrey st
Center/Oakland

1-194	3/23/2019 0:20	0	0	0
1-195	3/23/2019 0:25	0	0	0
1-196	3/23/2019 0:33	0	0	0
1-197	3/23/2019 0:38	0	0	0
1-198	3/23/2019 0:44	0	0	0
1-198	3/23/2019 0:59	0	0	0
1-199	3/23/2019 1:06	0	0	0
1-200	3/23/2019 1:14	0	0	0
1-201	3/23/2019 1:21	0	0	0
1-202	3/23/2019 1:33	0	0	0
1-203	3/23/2019 1:38	0	0	0
1-204	3/23/2019 2:25	0	0	0
1-205	3/23/2019 2:30	0	0	0
1-206	3/23/2019 2:33	0	0	0
1-207	3/23/2019 2:38	0	0	0
1-208	3/23/2019 2:42	0	0	0
1-209	3/23/2019 2:52	0	0	0
1-210	3/23/2019 3:04	0	0	0
1-211	3/23/2019 3:09	0	0	0
1-212	3/23/2019 3:32	0.6	0	0
1-213	3/23/2019 3:37	0.2	0	0
1-214	3/23/2019 3:43	0.4	0	0
1-215	3/23/2019 3:46	0.2	0	0
1-216	3/23/2019 3:49	0.2	0	0
1-217	3/23/2019 3:53	0	0	0
1-218	3/23/2019 4:03	0.2	0	0
1-219	3/23/2019 4:07	0	0	0
1-202	3/23/2019 4:13	0	0	0
1-221	3/23/2019 4:27	0	0	0
1-222	3/23/2019 5:12	0	0	0
1-223	3/23/2019 5:15	0	0	0
1-224	3/23/2019 5:18	0	0	0
1-225	3/23/2019 8:50	0	0	0
1-226	3/23/2019 9:10	0	0	0
1-227	3/23/2019 9:17	0	0	0
1-228	3/23/2019 9:26	0	0	0
1-229	3/23/2019 9:36	0	0	0
1-230	3/23/2019 10:24	0	0	0
1-231	3/23/2019 10:50	0	0	0
1-232	3/23/2019 11:10	0	0	0
1-233	3/23/2019 11:28	0	0	0
1-234	3/23/2019 11:57	0	0	0
1-235	3/23/2019 12:46	0	0	0
1-236	3/23/2019 13:01	0	0	0
1-237	3/23/2019 14:29	0	0	0
1-238	3/23/2019 14:46	0	0	0
1-239	3/23/2019 14:57	0	0	0

0	20.9	15.2			
0	20.9	32			
0	20.9	12			
0	20.9	12			
0	20.9	13.7			
0	20.9	10.6			
0	20.9	10.5			
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0	20.9	10.4			
0	20.9	11			
0	20.9	11.1			
0	20.9	12.4			
0	20.9	12.8			
0	20.9				
0	20.9	12.4			
0	20.9	30			
0	20.9	9.4			
0	20.9	9			
0	20.9	9.2			
0	20.9	43.5	0.6		
0	20.9	22.5	0.15	0	
0	20.9	41.5	0.45	0	
0	20.9	32.4	0.1		
0	20.9	32	0.15	0	
0	20.9	27	0		
0	20.9	25	0.2		
0	20.9	9	0		
0	20.9	11			
0	20.9	15.5			
0	20.9	8.5			
0	20.9	8.5			
0	20.9	17			
0	20.9	10.4			
0	20.9	9.6			
0	20.9	12.3			
0	20.9	8.5			
0	20.9	8.4			
0	20.9	7.3			
0	20.9	7.1			
0	20.9	7.7			
0	20.9	5.4			
0	20.9	10.1			
0	20.9	4.5			
0	20.9	5.9			
0	20.9	6.7			
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Center/ Mable
Oakland/Burnett
S Kilgore / Lakeview
S Kilgore Ave
Lakeview / Ilfrey
N Burnet Dr
S Burnet Dr
Bayway/woods st
Katherine st
Bayway Dr
Bayway / Baker
Monmouth Dr
Meadowbrook / Brookshire st
Park dr / Meadowbrook
Magnolia / river
Park St
Faith st
Start team left area due to elevated readings on Far East of De zavalla
Backed out of area with benzene readings to Harding street and re tested. <10 ppm toluene and xylene, and 0 ppm napth
N Shore dr / Elsbeth rd Draeger showed <10ppm
Cedar Dr; team backed out to safer area and did not measure toluene/xylene/naphtha.
Lakeside / Market. benzene sampled for.
Market st
Avenue D. ; team backed out to safer area and did not measure toluene/xylene/naphtha.
Avenue d / avenue D
Ruskin / Kirk st
W end of Dezavalla
Carlang / market st
Beth ln / Market st
Grand and Market st.
Hartsook St and 45
Defender and N Carolina St
Fidelity St and Mascot St
Crown St and 3rd St
Lane St and Chazen Dr
Harmon Field
Walmart Parking Lot
Isaacs Elementary
Eastwood Park
Milart St ans Hull St
Dover St and Kimble St
Spanky's Pizza Parking Lot
Joplin St and De Leon St
CVS Parking Lot
Meridian St and Niles St

1-240	3/23/2019 15:11	0	0	0
1-241	3/23/2019 15:35	0	0	0
1-242	3/23/2019 15:42	0	0	0
1-243	3/23/2019 15:52	0	0	0
1-244	3/23/2019 16:11	0	0	0
1-245	3/23/2019 17:03	0	0	0
1-246	3/23/2019 17:38	0	0	0
1-246	3/23/2019 17:38	0	0	0
1-247	3/23/2019 17:46	0	0	0
1-248	3/23/2019 21:27	0	0	0
1-249	3/23/2019 21:42	0.1	0	0
1-250	3/23/2019 22:12	0	0	0
1-251	3/23/2019 22:21	0	0	0
1-252	3/23/2019 22:28	0	0	0
1-253	3/23/2019 22:44	0.2	0	0
1-254	3/23/2019 23:17	0	0	0
1-255	3/23/2019 23:25	0	0	0
1-256	3/23/2019 23:31	0	0	0
1-257	3/23/2019 23:40	0	0	0
1-258	3/24/2019 1:26	0	0	0
1-259	3/24/2019 1:40	0	0	0
1-260	3/24/2019 1:43	0	0	0
1-261	3/24/2019 1:48	0	0	0
1-262	3/24/2019 1:52	0	0	0
1-263	3/24/2019 1:59	0	0	0
1-264	3/24/2019 2:05	0	0	0
1-265	3/24/2019 2:09	0	0	0
1-266	3/24/2019 2:16	0	0	0
1-267	3/24/2019 2:21	0	0	0
1-268	3/24/2019 2:27	0	0	0
1-269	3/24/2019 2:34	0	0	0
1-270	3/24/2019 2:40	0	0	0
1-271	3/24/2019 2:44	0	0	0
1-272	3/24/2019 2:46	0	0	0
1-273	3/24/2019 2:52	0	0	0
1-274	3/24/2019 2:56	0	0	0
1-275	3/24/2019 3:00	0	0	0
1-276	3/24/2019 3:04	0	0	0
1-277	3/24/2019 3:11	0	0	0
1-278	3/24/2019 3:17	0	0	0
1-279	3/24/2019 3:22	0	0	0
1-280	3/24/2019 3:28	0	0	0
1-281	3/24/2019 3:52	0	0	0
1-282	3/24/2019 3:56	0	0	0
1-283	3/24/2019 4:04	0	0	0
1-284	3/24/2019 4:33	0	0	0
1-285	3/24/2019 4:40	0	0	0

0	20.9	5.8		
0	20.9	7.2		
0	20.9	7.7		
0	20.9	10.2		
0	20.9	7.4		
0	20.9	5.6		
0	20.9			
0	20.9	5.5		
0	20.9	9.6		
0	20.9	8.7		
0	20.9	19.7	0.1	0
0	20.9	13.8		
0	20.9	8.2		
0	20.9	20.9		
0	20.9	18.1	0.2	0
0	20.9	20.1		
0	20.9	13.1		
0	20.9	15.2		
0	20.9	14.7		
0	20.9	13.4		
0	20.9	14.5		
0	20.9	14.6		
0	20.9	15.3		
0	20.9	16.1		
0	20.9	39.1		
0	20.9	38.7		
0	20.9	23.1		
0	20.9	22.3		
0	20.9	16.9		
0	20.9	19.1		
0	20.9	20.1		
0	20.9	14.1		
0	20.9	16.2		
0	20.9	14.4		
0	20.9	21.2		
0	20.9	37.2		
0	20.9	21		
0	20.9	19.8		
0	20.9	21		
0	20.9	24.5		
0	20.9	30.6		
0	20.9	27.2		
0	20.9	31.6		
0	20.9	39.3		
0	20.9	33.1		
0	20.9	11.9		
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Patricia Manor Apartments
Bacher St and Sexton St
Attwater St and Eastland St
Safebuy St and Bacher St
Guinevere St and Columbus
Walmart Parking Lot
Holland Ave and Clinton Drive
Holland Ave and Clinton Dr
Holland Ave and 18th St
De Zavala and Channelview
Intersection of Carlang and Garlang, Xylene and Toluene <10.0 ppm, Naptha <0.5
Intersection of Market and Grand
Market St. at Carpenter's Bayou bridge
Intersection of Market and Appelt Dr.
Intersection of Sheldon and Market, xylene and toluene <10.0 ppm, naphthalene <0.5 mg/l
Intersection of Carlang and Langcart
Intersection of Sheldon and Langcart
Intersection of Sheldon and Garlang
Lorenzo St. @ VV Ramsey Community Center
Intersection of Avenue C and S Brentwood
15543 Avenue C
Avenue C creek crossing
Intersection of South and N Brentwood
Intersection of Dell Dale St and South Dr
15415 Market St.
15631 Market St.
15707 Garlang St
Intersection of Tower and Lorenzo
Intersection of Barron and Market
Intersection of Magnolia and 1st St.
Intersection of Market and 2nd St.
Intersection of Pecan and Lakeside
Intersection of Pecan and Elsbeth
1643 1st St.
16301 1st St.
Intersection of Pemberton and E. Channelview Dr.
Intersection of Pemberton and Red Oak St.
831 Coolidge
Intersection of Coolidge St. and N. Shore Dr.
Intersection of Elsbeth and Lake Ct.
16504 De Zavala Rd.
East End of De Zavala
Intersection of Jacintoport Blvd and Appelt Dr
Intersection of Jackson Ave. and E. Park Ln.
Intersection of Thomas and Stratfor

1-286	3/24/2019 4:49	0	0	0
1-287	3/24/2019 5:04	0	0	0
1-288	3/24/2019 5:16	0	0	0
1-289	3/24/2019 5:26	0	0	0
1-290	3/24/2019 5:34	0	0	0
1-291	3/24/2019 5:39	0	0	0
1-292	3/24/2019 9:47	0	0	0
1-293	3/24/2019 10:01	0	0	0
1-294	3/24/2019 10:06	0	0	0
1-295	3/24/2019 10:16	0	0	0
1-296	3/24/2019 10:31	0	0	0
1-297	3/24/2019 10:45	0	0	0
1-298	3/24/2019 11:01	0	0	0
1-299	3/24/2019 11:45	0	0	0
1-300	3/24/2019 12:03	0	0	0
1-301	3/24/2019 12:58	0	0	0
1-302	3/24/2019 13:08	0	0	0
1-303	3/24/2019 13:25	0	0	0
1-304	3/24/2019 13:36	0	0	0
1-305	3/24/2019 13:54	0	0	0
1-306	3/24/2019 15:25	0	0	0
1-307	3/24/2019 15:33	0	0	0
1-308	3/24/2019 15:36	0	0	0
1-309	3/24/2019 15:39	0	0	0
1-310	3/24/2019 15:46	0	0	0
1-311	3/24/2019 15:57	0	0	0
1-312	3/24/2019 16:03	0	0	0
1-313	3/24/2019 16:09	0	0	0
1-314	3/24/2019 16:15	0	0	0
1-315	3/24/2019 16:21	0	0	0
1-316	3/24/2019 16:30	0	0	0
1-317	3/24/2019 16:40	0	0	0
1-318	3/24/2019 16:51	0	0	0
1-319	3/24/2019 17:00	0	0	0
1-320	3/24/2019 17:05	0	0	0
1-321	3/24/2019 17:11	0	0	0
1-322	3/24/2019 17:18	0	0	0
1-323	3/24/2019 17:35	0	0	0
1-324	3/24/2019 20:36	0	0	0
1-325	3/24/2019 21:13	0	0	0
1-326	3/24/2019 21:23	0	0	0
1-327	3/24/2019 21:27	0	0	0
1-328	3/24/2019 21:34	0	0	0
1-329	3/24/2019 21:42	0	0	0
1-330	3/24/2019 21:51	0	0	0
1-331	3/24/2019 23:03	0	0	0
1-331	3/24/2019 23:12	0	0	0

0	20.9	12.1		
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0	20.9	20.8		
0	20.9	16.1		
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0	20.9	12.2	0	0
0	20.9	8.4	0	0
0	20.9	9.2	0	0
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Intersection of Jenkins and Willow Oaks
Ben Briar Park
intersecton of white briar dr and west side dr
Intersection of center and third street
Frances and Luella
North end of Luella
DeZavala Elementary
Wild Hawgs Saloon
Southwest Shipyard LP
River Rd and Ave B
End of Cedar Ln
Rancho Grande Dr and Green Feather Dr
Two Penny St and Evanston St
Carpenters Landing Way and Granite Mountain Trail
Wood Forest Dr and Woodhurst Dr
Chanel Dr and Sasson Blvd
Valley Flag and Valley Breeze
Michael R Null Middle School
Aqueduct Rd
Winding Boardwalk Way and Upland Junction Trail
Palais Royal Parking Lot
Little Country Church
Spence Ln and Pin Oak Loop Rd
Pin Oak Loop and Hurta
County Rd exit off of Rt 90
Sheldon Food Mart
Channelview Church of Christ
Elgin St and Ashland Blvd
Reyes Reception
Barnesville St and Woodforest Blvd
Agua Dulce Trail and Rancho Plato Dr
First Assembly of God
DeZavala Elementary School
Cedar St and Market St
Market St
San Jac Marine
Alliance Tank Service
Sheila and Ridlon
Woodrow Street, Lakeside Park. Foul odor resembling gasoline in area.
Avenue B Cedar Bluff
Avenue B Cedar Bluff
Bayou Drive, Cedar Bluff
Cedar Lane, Channel View
2nd Street, Channelview
Arcadia, Channelview
Sheldon road, Channelview

1-332	3/24/2019 23:47	0	0	0
1-333	3/25/2019 0:04	0	0	0
1-334	3/25/2019 0:18	0	0	0
1-335	3/25/2019 0:30	0	0	0
1-336	3/25/2019 0:40	0	0	0
1-337	3/25/2019 0:54	0	0	0
1-338	3/25/2019 1:00	0	0	0
1-339	3/25/2019 1:08	0	0	0
1-340	3/25/2019 1:15	0	0	0
1-341	3/25/2019 1:26	0	0	0
1-342	3/25/2019 1:47	0	0	0
1-343	3/25/2019 3:06	0	0	0
1-344	3/25/2019 3:14	0	0	0
1-345	3/25/2019 3:46	0	0	0
1-346	3/25/2019 3:52	0	0	0
1-347	3/25/2019 4:00	0	0	0
1-348	3/25/2019 4:06	0	0	0
1-349	3/25/2019 4:12	0	0	0
1-350	3/25/2019 4:24	0	0	0
1-351	3/25/2019 4:32	0	0	0
1-352	3/25/2019 5:43	0	0	0
1-353	3/25/2019 5:52	0	0	0
1-354	3/25/2019 9:27	0	0	0
1-355	3/25/2019 10:46	0	0	0
1-356	3/25/2019 10:53	0	0	0
1-357	3/25/2019 10:58	0	0	0
1-358	3/25/2019 11:05	0	0	0
1-359	3/25/2019 11:10	0	0	0
1-360	3/25/2019 11:13	0	0	0
1-361	3/25/2019 11:22	0	0	0
1-362	3/25/2019 11:28	0	0	0
1-363	3/25/2019 11:43	0	0	0
1-364	3/25/2019 11:49	0	0	0
1-365	3/25/2019 11:54	0	0	0
1-366	3/25/2019 12:14	0	0	0
1-367	3/25/2019 12:19	0	0	0
1-368	3/25/2019 12:22	0	0	0
1-369	3/25/2019 12:27	0	0	0
1-370	3/25/2019 13:30	0	0	0
1-371	3/25/2019 13:37	0	0	0
1-372	3/25/2019 13:42	0	0	0
1-373	3/25/2019 13:57	0	0	0
1-374	3/25/2019 14:00	0	0	0
1-375	3/25/2019 14:04	0	0	0
1-376	3/25/2019 14:08	0	0	0
1-377	3/25/2019 14:23	0	0	0
1-378	3/25/2019 14:39	0	0	0

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0	20.9	8.5	0	0
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0	20.9	14.7	0	0
0	20.9	11.6	0	0
0	20.9	8.7	0	0
0	20.9	8	0	0
0	20.9	8.4	0	0
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0	20.9	10.1	0	0
0	20.9	11.8	0	0
0	20.9	9.3	0	0
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0	20.9	18.2		
0	20.9	16		
0	20.9	18.5		
0	20.9	14.1		
0	20.9	13.6		
0	20.9	14.7		
0	20.9	15.9		
0	20.9	18.9		
0	20.9	18.7		
0	20.9	16.6		
0	20.9	13.6		
0	21.1	14.7		
0	21.1	16.2		
0	21.1	14.8		
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Edgewood Village Trail, Sheldon
New Forest Glen, New Forest
Wentworth Park Dr. Wood Forest North
Brook Street, Channelview. Roads in neighborhood under construction
Sheldon Rd. Channelview
Corner of California and Missouri streets
Corner of California and Florida
Corner of Kansas and Florida
Corner of Mississippi and Florida
Corner of W Main and Utah
1800 Utah street
2106 Utah street
Missouri & Maryland
2103 Maryland st.
Maryland st empty lot
W Main and Maryland
W Main and Carolina
St. Joseph's Catholic Church
Carolina St and Missouri St
Missouri St and New Jersey St
West side of New Jersey St.
San Jacinto Elementary
Bergeron Park
Huggins st. & Iowa st.
Huggins st. & Ohio St.
Huggins St. & Illinois St.
Huggins st. & market st.
Minnesota St and Oklahoma St
Illinois st. & Oklahoma
La Porte Tool Box

1-379	3/25/2019 14:45	0	0	0
1-380	3/25/2019 15:03	0	0	0
1-381	3/25/2019 15:12	0	0	0
1-382	3/25/2019 15:25	0	0	0
1-383	3/25/2019 15:37	0	0	0
1-384	3/25/2019 15:44	0	0	0
1-385	3/25/2019 15:57	0	0	0
1-386	3/25/2019 16:04	0	0	0
1-387	3/25/2019 16:09	0	0	0
1-388	3/25/2019 16:14	0	0	0
1-389	3/25/2019 16:27	0	0	0
1-390	3/25/2019 16:31	0	0	0
1-391	3/25/2019 16:35	0	0	0
1-392	3/25/2019 16:42	0	0	0
1-393	3/25/2019 16:49	0	0	0
1-394	3/25/2019 16:56	0	0	0
1-395	3/25/2019 17:01	0	0	0
1-396	3/25/2019 20:57	0	0	0
1-397	3/25/2019 21:24	0	0	0
1-398	3/25/2019 21:35	0	0	0
1-399	3/25/2019 21:41	0	0	0
1-400	3/25/2019 21:51	0	0	0
1-401	3/25/2019 22:01	0	0	0
1-402	3/25/2019 22:19	0	0	0
1-403	3/25/2019 22:33	0	0	0
1-404	3/25/2019 22:44	0	0	0
1-405	3/25/2019 22:50	0	0	0
1-406	3/25/2019 22:57	0	0	0
1-407	3/25/2019 23:05	0	0	0
1-408	3/25/2019 23:49	0	0	0
1-409	3/25/2019 23:56	0	0	0
1-410	3/26/2019 0:03	0	0	0
1-411	3/26/2019 0:11	0	0	0
1-412	3/26/2019 0:26	0	0	0
1-413	3/26/2019 0:48	0	0	0
1-414	3/26/2019 1:13	0	0	0
1-415	3/26/2019 1:21	0	0	0
1-416	3/26/2019 1:33	0	0	0
1-417	3/26/2019 1:48	0	0	0
1-418	3/26/2019 1:57	0	0	0
1-419	3/26/2019 2:07	0	0	0
1-420	3/26/2019 2:14	0	0	0
1-421	3/26/2019 2:28	0	0	0
1-422	3/26/2019 2:43	0	0	0
1-423	3/26/2019 2:59	0	0	0
1-424	3/26/2019 3:11	0	0	0
1-426	3/26/2019 3:22	0	0	0

0	21.2	11.9		
0	21.2	11.2		
0	21.2	13.5		
0	21.2	14.5		
0	20.9	14.1		
0	20.9	14.5		
0	20.9	15.9		
0	20.9	15.1		
0	20.9	14.1		
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0	20.9	14.8		
0	20.9	13.4		
0	20.9	11.3		
0	20.9	9.6	0	0
0	20.9	8	0	0
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0	20.9	12.5	0	0
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0	20.9	6.8	0	0
0	20.9	8	0	0
0	20.9	8	0	0
0	20.9	7.1	0	0
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West main st. & s 14th st.
W 15th st. & W B St.
HydrochemPSC
Bayou city industrial contractors
Little cedar bayou park
2nd point @ little cedar bayou park
West 1st & s 7th
West H st & s 5th st
W F st. & s 5th st
W C St. & S 5th St
W A st. & S 6th st.
S 7th st. & W B St
S 7th St. & W F St.
N 8th St. @ W Polk St.
N 8th St. & W Tyler St.
WesMor Cryogenics LLC
W Tyler St. & N 6th St
Arise Church
San Jacinto Elementary
Deer Park United Methodist Church
corner of Garden Park dr. and Wesley Ln.
Lanell st near Dow Park
Park Meadows Park
Bay Oaks Dr
N. Off of Genoa Red Bluff Rd.
andrew st
Summer Oak Dr. and Celtic Oak Dr.
Baywood Dr
Off Genoa Red Bluff Rd
Mahan dr and Pecan Crossing Ln
Fairmont Oaks
Farrington St. and Shell Rock Rd.
Youpon Dr. and Pecan Dr.
Herbert F. Freeman Jr. Police Administration Building
Bayshore Baptist Church
Meadow Crest and Glen Meadows
Sugar Creek and Myrtle Creek
Off Spencer Highway
Christ Redeemer Lutheran Church
College Park
Carrie St. and Durabt Ave
Tejas Dr. and Deckman St.
The Boulevard at Deer Park
Kindom Hall of Jehovah's Witnesses
Deer Park Police Station
Asbury Ln. and Garden Park St.
Karenkawa Court

1-427	3/26/2019 4:13	0	0	0
1-428	3/26/2019 4:19	0	0	0
1-428	3/26/2019 4:35	0	0	0
1-429	3/26/2019 4:56	0	0	0
1-430	3/26/2019 5:03	0	0	0
1-431	3/26/2019 10:28	0	0	0
1-432	3/26/2019 10:47	0	0	0
1-433	3/26/2019 10:55	0	0	0
1-434	3/26/2019 11:04	0	0	0
1-435	3/26/2019 11:10	0	0	0
1-436	3/26/2019 11:15	0	0	0
1-437	3/26/2019 11:21	0	0	0
1-438	3/26/2019 11:34	0	0	0
1-439	3/26/2019 11:38	0	0	0
1-440	3/26/2019 11:50	0	0	0
1-441	3/26/2019 11:55	0	0	0
1-442	3/26/2019 12:05	0	0	0
1-443	3/26/2019 12:12	0	0	0
1-444	3/26/2019 12:20	0	0	0
1-445	3/26/2019 12:31	0	0	0
1-446	3/26/2019 12:47	0	0	0
1-447	3/26/2019 12:52	0	0	0
1-448	3/26/2019 12:56	0	0	0
1-449	3/26/2019 14:25	0	0	0
1-450	3/26/2019 14:34	0	0	0
1-451	3/26/2019 14:39	0	0	0
1-452	3/26/2019 14:50	0	0	0
1-453	3/26/2019 14:55	0	0	0
1-454	3/26/2019 15:03	0	0	0
1-455	3/26/2019 15:12	0	0	0
1-456a	3/26/2019 15:56	0	0	0
1-456	3/26/2019 16:02	0	0	0
1-457	3/26/2019 16:06	0	0	0
1-458	3/26/2019 16:14	0	0	0
1-459	3/26/2019 16:20	0	0	0
1-461	3/26/2019 16:32	0	0	0
1-462	3/26/2019 16:38	0	0	0
1-463	3/26/2019 16:48	0	0	0
1-464	3/26/2019 20:25	0	0	0
1-465	3/26/2019 20:35	0	0	0
1-466	3/26/2019 20:44	0	0	0
1-467	3/26/2019 20:52	0	0	0
1-468	3/26/2019 20:57	0	0	0
1-469	3/26/2019 21:03	0	0	0
1-470	3/26/2019 21:08	0	0	0
1-471	3/26/2019 21:10	0	0	0
1-472	3/26/2019 21:36	0	0	0

0	20.9	9	0	0
0	20.9	9	0	0
0	20.9	11	0	0
0	20.9	7.1	0	0
0	20.9	7.1	0	0
0	20.9	6.2		
0	20.9	4.6		
0	20.9	6.3		
0	20.9	6.6		
0	20.9	6.3		
0	20.9	6.1		
0	20.9	6.9		
0	20.9	6.5		
0	20.9	6.1		
0	20.9	6		
0	20.9	6.1		
0	20.9	4.3		
0	20.9	5.3		
0	20.9	5		
0	20.9	4.8		
0	20.9	5.1		
0	20.9	5.7		
0	20.9	4.4		
0	20.9	6.8		
0	20.9	6.9		
0	20.9	7.1		
0	20.9	6.2		
0	20.9	6.5		
0	20.9	8.6		
0	20.9	7.7		
0	20.9	7.2		
0	20.9	7.2		
0	20.9	7.5		
0	20.9	7.5		
0	20.9	7.9		
0	20.9	7.6		
0	21.1	8.3		
0	21.1	7.2		
0	20.9	6.3	0	0
0	20.9	6.4	0	0
0	20.9	6.7	0	0
0	20.9	7.5	0	0
0	20.9	10.3	0	0
0	20.9	10	0	0
0	20.9	10.1	0	0
0	20.9	7.1	0	0
0	20.9	6.8	0	0

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San Jacinto Elementary School. strong scent of petroleum but no readings
San Jancinto ES. Strong scent of petroleum but no readings
Andrews Logistics
Deer Park Fire Field
San Jacinto ES. No scent
San Jacinto Elementary School
Dutch (800) & W 8th St.
Avon St. & W 5tg
Center St. & E 5th
Harvard St. & E 8th St.
Grove St. & E 9th St.
Alice Dr. & Deer Ave.
Ellen Dr. & Park Ave.
Crete Dr. & Deer Ave.
Deer Ave. & Reta Dr.
Una Dr. & Park Ave.
S Kaufman Dr.
Luella Ave. & N Amy Dr.
N Amy Dr. & Brenda Dr.
Deer Park Elementary School
Parkglen St. & Angela St.
Bayou St.
Knob Hill St.
Mill Wright's local services
Caramel Ridge Way; 29.683966, -95.148523
Early Walk Way & Caramel Ridge Way
Lexington St. & Oklahoma Ave.
Concord St.
Concord St.
Atlanta St. & Oklahoma St.
Regency Dr. & E Pasadena Blvd
Tudor Ct. & Windsor Dr.
Bradshire Ct. & Windsor Dr.
Yorkshire Ct. & Windsor Dr.
Downing Circle & E Pasadena Blvd.
Denise St. & Christy St.
Monument Academy
San Marcos Dr. & P St.
Center St. and Evie Ln. intersection
Durant Ave & West Temperance Ln intersection
Claude Burgess Rec Center
Hillshire Dr and Kalwick Dr intersection
Hillshire Dr. and Wakeshire Dr intersection
Carpenter Elementary School
Between Carpenter Elementary School and Bonnette Jr. High School
Bonnette Jr. High School
E Pasadena Blvd and Somerset Ln intersection.(coastal water authority entrance)

1-473	3/26/2019 22:04	0	0	0
1-474	3/26/2019 22:11	0	0	0
1-475	3/26/2019 23:03	0	0	0
1-476	3/26/2019 23:08	0	0	0
1-477	3/26/2019 23:16	0	0	0
1-478	3/26/2019 23:25	0	0	0
1-479	3/26/2019 23:33	0	0	0
1-480	3/26/2019 23:40	0	0	0
1-481	3/26/2019 23:50	0	0	0
1-482	3/26/2019 23:58	0	0	0
1-483	3/27/2019 0:07	0	0	0
1-484	3/27/2019 0:18	0	0	0
1-485	3/27/2019 0:27	0	0	0
1-486	3/27/2019 0:37	0	0	0
1-487	3/27/2019 0:46	0	0	0
1-488	3/27/2019 2:04	0	0	0
1-489	3/27/2019 2:13	0	0	0
1-490	3/27/2019 2:21	0	0	0
1-491	3/27/2019 2:31	0	0	0
1-492	3/27/2019 2:38	0	0	0
1-493	3/27/2019 2:51	0	0	0
1-494	3/27/2019 3:04	0	0	0
1-495	3/27/2019 3:25	0	0	0
1-496	3/27/2019 3:40	0	0	0
1-497	3/27/2019 4:12	0	0	0
1-498	3/27/2019 4:21	0	0	0
1-499	3/27/2019 4:31	0	0	0
3-5	3/27/2019 6:08	4.5	0	0
1-500	3/27/2019 11:34	0	0	0
1-501	3/27/2019 11:44	0	0	0
1-502	3/27/2019 11:50	0	0	0
1-503	3/27/2019 11:56	0	0	0
1-504	3/27/2019 12:05	0	0	0
1-505	3/27/2019 12:10	0	0	0
1-506	3/27/2019 14:04	0	0	0
1-507	3/27/2019 14:12	0	0	0
1-508	3/27/2019 14:22	0	0	0
1-509	3/27/2019 14:29	0	0	0
1-510	3/27/2019 16:53	0	0	0
1-511	3/27/2019 16:59	0	0	0
1-516	3/27/2019 17:01	0	0	0
1-517	3/27/2019 17:08	0	0	0
1-518	3/27/2019 17:24	0	0	0
1-519	3/27/2019 17:30	0	0	0
1-520	3/27/2019 17:41	0	0	0
3-1	3/27/2019 17:49	0	0	0
3-2	3/27/2019 18:00	0	0	0

0	20.9	24.9	0	0
0	20.9	35.6	0	0
0	20.9	17.8	0	0
0	20.9	17.2	0	0
0	20.9	14.4	0	0
0	20.9	14.1	0	0
0	20.9	15	0	0
0	20.9	13.6	0	0
0	20.9	13	0	0
0	20.9	12.9	0	0
0	20.9	13.7	0	0
0	20.9	12.7	0	0
0	20.9	10.2	0	0
0	20.9	11.1	0	0
0	20.9	10.8	0	0
0	20.9	6.1	0	0
0	20.9	6.3	0	0
0	20.9	6	0	0
0	20.9	6.4	0	0
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0	20.9	5.2	0	0
0	20.9	5.6	0	0
0	20.9	5.7	0	0
0	20.9	5.5	0	0
0	20.9	6	0	0
0	20.9	5.8	0	0
0	20.9	5.5	0	0
0	20.9		0.2	10
0	20.9	4.5		
0	20.9	5.3		
0	20.9	4.7		
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0	20.9	4.1		
0	20.9	4.9		
0	20.9	4.8		
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0	20.9	5.5		
0	20.9	4.9		
0	20.9	7.3		
0	20.9	5.5		
0	20.9	4.8	0	
0	20.9	4.2		
0	20.9	4.7		
0	20.9	4.6	0	
0	20.9	4.2		
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SE of E. 13th St. and East Blvd
NW side of E. 13th St. and East Blvd
San Jacinto Elementary School, parking lot on NE side of school
San Jancinto Elementary School, basket ball court
San Jacinto Elementary School, parking lot on SW side of school
Luella Ave and 13st St intersection
Doris St and Phyllis St. intersection
Deer Community Center Park (by city hall Parking Lot)
NE side of Deer Park City Hall
N side of Deer Park Community Center
E San Augustine St. USPS
Western dead end of W. Vaughn Ln
N. Side of Deer Park High School South
E. Side of Absheir football stadium
Texas Ave and Brookhollow Dr
SE of College Park Elementary
Eastern dead end of E Brown Ln
E. Columbia Ln and Dartmouth Ln intersection
Luella Ave and Spencer Hwy intersection
NW side of Academy Ln
N. Side of Dabbs Elementary School.
Jefferson Ave. and S. Crockett St
Lincoln St. and Grant St. intersection
Louisiana Ave and Willowbend Dr
Battleground at Deer Park entrance off of Georgia Ave
St. Patrick Ln and Gallagher Ln intersection
N. Dead end of Donegal Ct
Tucker Bayou
Deepwater Elementary School
Parkwood Elementary School
Birmham Woods Blvd.
Cann Dr.
Bennett Dr. & Guthrie Dr.
Glenmore Dr. & Guthrie Dr.
Deepwater Elementary School
Hays St. & Preston St.
Washington St. & Preston St.
Carter St. & Sherman Ave.
E Broadway Ave. & Red Bluff Road
Park Ln. & Gilbert Dr.
Park Ln. & Richard Ave.
Park Ln. & Thomas Ave.
La Iglesia Del Pueblo
Nottingham Dr.
Garner Rd. & Robinhood St.
Vopak Shore. lower detection limit for xylene and toluene is 10 ppm
Vopak Channel

3-3	3/27/2019 18:06	0	0	0
3-5	3/27/2019 18:08	4.5	0	0
3-4	3/27/2019 18:08	4.5	0	0
3-6	3/27/2019 18:35	0	0	0
3-6	3/27/2019 18:39	0	0	0
1-521	3/27/2019 21:41	0	0	0
1-522	3/27/2019 22:00	0	0	0
1-523	3/27/2019 22:14	0	0	0
1-524	3/27/2019 22:20	0	0	0
1-525	3/27/2019 22:43	0	0	0
1-526	3/27/2019 22:54	0	0	0
1-527	3/27/2019 23:09	0	0	0
1-528	3/27/2019 23:24	0	0	0
1-529	3/27/2019 23:35	0	0	0
1-530	3/28/2019 0:03	0.3	0	0
1-531	3/28/2019 1:56	0	0	0
1-532	3/28/2019 2:21	0	0	0
1-533	3/28/2019 2:36	0	0	0
1-534	3/28/2019 2:42	0	0	0
1-535	3/28/2019 3:11	0	0	0
1-536	3/28/2019 3:27	0	0	0
1-537	3/28/2019 3:39	0	0	0
1-538	3/28/2019 3:53	0	0	0
3-19	3/28/2019 4:02	0	0	0
1-539	3/28/2019 4:05	0	0	0
1-540	3/28/2019 4:14	0	0	0
1-541	3/28/2019 4:25	0	0	0
1-542	3/28/2019 4:36	0	0	0
1-543	3/28/2019 9:53	0	0	0
1-543	3/28/2019 10:16	0	0	0
1-544	3/28/2019 10:31	0	0	0
1-545	3/28/2019 10:40	0	0	0
1-546	3/28/2019 10:48	0	0	0
1-548	3/28/2019 11:04	0	0	0
3-8	3/28/2019 11:10	0.9	0	0
1-549	3/28/2019 11:17	0	0	0
3-9	3/28/2019 11:21	0	0	0
1-550	3/28/2019 11:28	0.1	0	0
3-10	3/28/2019 11:36	0.1	0	0
1-551	3/28/2019 11:40	0	0	0
3-11	3/28/2019 11:41	0.2	0	0
1-552	3/28/2019 11:52	0	0	0
3-12	3/28/2019 11:52	0	0	0
3-13	3/28/2019 12:01	0	0	0
3-14	3/28/2019 12:07	0	0	0
3-15	3/28/2019 12:11	0	0	0
3-16	3/28/2019 12:15	0	0	0

0	20.9		0	0
0	20.9		0.2	0
0	20.9		0.2	0
0	20.9		0	
0	20.9		0	0
0	20.9	16.8		
0	20.9	11.8		
0	20.9	10.8		
0	20.9	14.2		
0	20.9	19.9		
0	20.9	26.9		
0	20.9	11.3		
0	20.9	17.8		
0	20.9	19.5		
0	20.9	36.2	0.05	0
0	20.9	21.5		
0	20.9	14.3		
0	20.9	14.9		
0	20.9	13.8		
0	20.9	12.4		
0	20.9	8.4		
0	20.9	8.2		
0	20.9	10.8		
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0	20.9	8.8		
0	20.9	9.4		
0	20.9	10.1		
0	20.9	9.2		
0	20.9	16.9		
0	20.9	16.7		
0	20.9	17.4	0	
0	20.9	36.9		
0	20.9	20.7		
0	20.9	19		
0	20.9		0.025	
0	20.9	14.8		
0	20.9		0	
0	20.9	14.7	0	
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0	20.9	11.1		
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Houston Oil Terminal Channel
Tucker Bayou
Houston Oil Terminal Shore
Southern Atlantic Services
Southern Atlantic Services Channel
S. Side of DeZavala Elementary School
River Terrace Park
E. Cedar Ln and E. Freeway
ESC Channelview ISD Building
SE of Ray Maddry Stadium
Pine St and Becker Ave intersection
SE deadend of Woodland Dr.
Pecan St. Christian Academy
Crenshaw Elementary School
HFOCO training bldg channel side facing ITC
Channelview ISD early childhood Center
Channelview Sports Complex
S. Side of Channelview sports complex
Moncrief Park
Crosby Lynchburg Rd. And Lakeview Dr.
Lynchburg Ferry
Lakeview Dr. and S. Ilfrey St.
David G. Burnet Park
Precoat Metals Shore
Baytown Jr. High School
Cabaniss Ave and Brownwood Dr
Bayway Dr and Wisconsin St
W. Main St. and Thompson St.
Dezavala Elementary School
1st St.
Red Oak St. & Market St.
Red Oak St. & Pemberton St.
Hoover Rd.
Templo Restauracion @ 1st St.
Enterprise Terminal Shore
1st & Elsbeth St.
Enterprise Terminal. Channel location 3-9
Pecan St. & Lakeside St.
Arrive at 3-10 Shell Deer Park Shore
Dezavala Rd. & Harding St.
Arrive at Shell Deer Park Channel 3-11
Dezavala Rd. @ Targa Resources
Kinder Morgan Deep water shore
Kinder Morgan Deepwater Channel
BASF Shore
Oxy Chem Shore
Oxy Chem Channel; Time is approximate. Logbook time listed only hours (no minutes). Crew was averaging about 4 min

1-554	3/28/2019 12:15	0	0	0
1-555	3/28/2019 12:43	0	0	0
1-556	3/28/2019 12:51	0	0	0
3-17	3/28/2019 13:00	0	0	0
1-558	3/28/2019 13:06	0	0	0
3-18	3/28/2019 13:14	0	0	0
1-560	3/28/2019 13:22	0	0	0
1-561	3/28/2019 13:38	0	0	0
1-562	3/28/2019 13:45	0	0	0
1-563	3/28/2019 13:52	0	0	0
1-564	3/28/2019 14:00	0	0	0
1-565	3/28/2019 14:11	0	0	0
1-566	3/28/2019 14:37	0	0	0
1-567	3/28/2019 14:48	0	0	0
1-569	3/28/2019 15:09	0	0	0
1-570	3/28/2019 15:09	0	0	0
1-571	3/28/2019 15:55	0	0	0
1-572	3/28/2019 16:07	0	0	0
1-573	3/28/2019 16:08	0	0	0
3-20	3/28/2019 16:08	0.1	0	0
3-21	3/28/2019 16:11	0.6	0	0
1-574	3/28/2019 16:24	0	0	0
1-575	3/28/2019 16:35	0	0	0
1-576	3/28/2019 16:38	0	0	0
1-577	3/28/2019 16:46	0	0	0
1-578	3/28/2019 16:56	0	0	0
1-579	3/28/2019 17:13	0	0	0
3-22	3/28/2019 17:14	0	0	0
1-580	3/28/2019 17:24	0	0	0
1-581	3/28/2019 21:03	0	0	0
1-582	3/28/2019 21:22	0	0	0
1-583	3/28/2019 21:34	0	0	0
1-584	3/28/2019 21:57	0	0	0
1-585	3/28/2019 22:35	0	0	0
1-586	3/28/2019 22:43	0	0	0
1-587	3/28/2019 23:17	0	0	0
1-588	3/28/2019 23:33	0	0	0
1-589	3/28/2019 23:58	0	0	0
1-591	3/29/2019 1:25	0	0	0
1-590	3/29/2019 1:38	0.9	0	0
1-592	3/29/2019 1:51	0	0	0
1-593	3/29/2019 2:09	0	0	0
1-594	3/29/2019 2:21	0	0	0
1-595	3/29/2019 2:57	3	0	0
1-596	3/29/2019 3:50	0.5	0	0
1-597	3/29/2019 4:56	0	0	0
1-598	3/29/2019 5:05	1	0	0

0	20.9	63.4		
0	20.9	14.4		
0	20.9	12.4		
0	20.9		0	
0	20.9	17.5		
0	20.9		0	
0	20.9	26.4		
0	20.9	39.5		
0	20.9	23.3		
0	20.9	15.8		
0	20.9	36.1		
0	20.9	26.5		
0	20.9	29.2		
0	20.9	20.8		
0	20.9	18.1		
0	20.9	22.5		
0	20.9	22.1		
0	20.9	19.2		
0	20.9	20.3		
0	20.9		0.175	
0	20.9		0.275	10
0	20.9	19.9	0	
0	20.9	20.5		
0	20.9	24.7		
0	20.9	19.2		
0	20.9	30.3		
0	20.9	116.7		
0	20.9		0	
0	20.9	59.7		
0	20.9	11.6		
0	20.7	13.4		
0	20.9	18.7		
0	20.9	10.2		
0	20.9	12.3		
0	20.9	11.4		
0	20.9	13.2		
0	20.9	10.1		
0	20.9	13.4		
0	20.9	33.8	0	
10	20.9		0.65	
0	0	20.8		
0	20.9	11.3		
0	20.9	10.8		
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Dezavala Rd. & W of Pemberton
American legion post #644
Oak Forest Mini Storage
Carpenter Bayou
End of Cedar Ln.
Carpenter Bayou channel
Sanctuary church @ Ave. C & Sheldon Rd.
Grand St. & I-10 Service Rd.
South St. & Dell Dale St.
W. Brentwood St.
Dell Dale St. & N. Brentwood Dr.
S. Brentwood St. & Ave. C
Makenna Ln. & Darrian Ln.
Riane Ln. & Laura Anne Dr.
Dominic Ln.
Palmonari Dr. & Bertasz Dr.
Castlegory Rd. & Long Shadow Dr.
Woodline Dr. & Moon Ridge Dr.
Long Shadow Dr. & Ambershadow Dr.
Precoat Metals Channel
Near ITC; crew works in PPE for 58 minutes. Peak benzene is .275 ppm and it lasts for 10 minutes. Toluene and xylene we
Woodforest Church & Owendale Dr.
Split Cedar Dr.
Southern Breeze Ct. & Overland Park Dr.
Banter Trails Dr. & Iris Crossing Ln.
Floral Park Ln. & Melody Garden Ln.
Galena Park ISD Sports Complex
Battleship Texas South
North shore High school
Crenshaw Elementary School
N. Ave and Bear Bayou Dr.
Channelview Sports Complex (SE side)
Moncrief Park
ESC Channelview ISD building
NE side of Ray Maddery
River Terrace Golf Course
Harvey Brown Elementary School
Anthony Aguirre Jr. High
NW of Sheldon Rd. And Market St. intersection
Jacinto Port Blvd
DeZavala Rd. and Market St.
Lakeside Dr. and Northshore Dr.
River Terrace Park
NE of Tidal Rd and Rohm Haas intersection
Jacintoport Blvd. near dead end past GE entrance
Jacintoport and Sheldon
Jacintoport Blvd. E. Of Powell industrial facility

Message

From: Steven Cowan [SCowan@css-inc.com]
Sent: 3/30/2019 10:57:39 AM
To: Mason, Steve [mason.steve@epa.gov]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; Neil Daniell [NDaniell@css-inc.com]
CC: Spall, Amy [amy.spall@westonsolutions.com]
Subject: FW: 0500 Benzene Update
Attachments: 20190330_0400_benzene_report.pdf; ATT00001.htm; 20190330_0500_benzene_report.pdf; ATT00002.htm

Folks,

Just received this from CTEH

Steve

-----Original Message-----
From: Mike Taylor <mtaylor@iterm.com>
Sent: Saturday, March 30, 2019 5:53 AM
To: Steven Cowan <SCowan@css-inc.com>
Subject: Fwd: 0500 Benzene Update

Sent from my iPhone

Begin forwarded message:

From: Jason Callahan <jcallahan@cteh.com<mailto:jcallahan@cteh.com>>
Date: March 30, 2019 at 5:16:04 AM CDT
To: "wtaylor@iterm.com<mailto:wtaylor@iterm.com>" <wtaylor@iterm.com<mailto:wtaylor@iterm.com>>, "Mwesley@iterm.com<mailto:Mwesley@iterm.com>" <Mwesley@iterm.com<mailto:Mwesley@iterm.com>>, "SCoty@iterm.com<mailto:SCoty@iterm.com>" <SCoty@iterm.com<mailto:SCoty@iterm.com>>, "JEVERETT@iterm.com<mailto:JEVERETT@iterm.com>" <JEVERETT@iterm.com<mailto:JEVERETT@iterm.com>>, "hthomas@iterm.com<mailto:hthomas@iterm.com>" <hthomas@iterm.com<mailto:hthomas@iterm.com>>, David Wascome <Dwascome@iterm.com<mailto:Dwascome@iterm.com>>, "crice@responsegroupinc.com<mailto:crice@responsegroupinc.com>" <crice@responsegroupinc.com<mailto:crice@responsegroupinc.com>>, Kevin Young <KYoung@iterm.com<mailto:KYoung@iterm.com>>
Cc: itcdata <itcdata@cteh.com<mailto:itcdata@cteh.com>>, "mtaylor@iterm.com<mailto:mtaylor@iterm.com>" <mtaylor@iterm.com<mailto:mtaylor@iterm.com>>, "mgaudet@iterm.com<mailto:mgaudet@iterm.com>" <mgaudet@iterm.com<mailto:mgaudet@iterm.com>>, Chris Kuhlman <ckuhlman@cteh.com<mailto:ckuhlman@cteh.com>>, Travis Sartain <tsartain@cteh.com<mailto:tsartain@cteh.com>>, Mike Berg <mberg@cteh.com<mailto:mberg@cteh.com>>, "Jason Callahan" <jcallahan@cteh.com<mailto:jcallahan@cteh.com>>, Scott Malm <smalm@cteh.com<mailto:smalm@cteh.com>>, "Pablo Sanchez-Soria" <psoria@cteh.com<mailto:psoria@cteh.com>>
Subject: 0500 Benzene Update

All,

Attached are the benzene reports for 0300 to 0500.

Thank you,

Jason Callahan, M.Sc., CIH
Health Scientist
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-366-8044 Emergency Response 24-Hour Hotline: +1(866) 869-2834
jcallahan@cteh.com<mailto:jcallahan@cteh.com> | www.cteh.com<http://www.cteh.com/>

Message

From: PasadenaOperationsCopier@iterm.com [PasadenaOperationsCopier@iterm.com]
Sent: 3/24/2019 1:16:33 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: Message from "PasadenaCopier2"
Attachments: 20190323201633512.pdf

This E-mail was sent from "PasadenaCopier2" (MP C2503).

Scan Date: 03.23.2019 20:16:33 (-0500)
Queries to: PasadenaOperationsCopier@iterm.com

March 23, 2019

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY, REGION 6

IN THE MATTER OF **Intercontinental Terminals Company LLC** Respondent **Harris County, Texas**	**CWA SECTION 311 ADMINISTRATIVE ORDER** Docket No. CWA _____

I. JURISDICTION AND GENERAL PROVISIONS

1. This Order is issued pursuant to the authority vested in the U. S. Environmental Protection Agency ("EPA") by Sections 311(c), (e) and (m) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1321 (c), (e) and (m).

2. This Order pertains to the discharge of hazardous substances from Intercontinental Terminals Company LLC's ("ITC" or "Respondent") petrochemicals facility that includes a tank farm at or near the City of Deer Park, Harris County, Texas. This Order requires ITC to conduct the actions described below to abate or mitigate an imminent and substantial threat to the public health or welfare of the United States that may be presented by the discharge or substantial threat of a discharge of hazardous substances from the above listed facility into or upon the navigable waters or adjoining shorelines of the United States.

3. The EPA has notified the State of Texas of this action pursuant to Section 311(e)(1)(B) of the CWA, 33 U.S.C. § 1321(e)(1)(B).

II. PARTIES BOUND

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4. This Order applies to and is binding upon Respondent and Respondent's heirs, directors, officers, employees, agents, receivers, trustees, successors and assigns. Any change in ownership or corporate status of Respondent including, but not limited to, any transfer of assets or real or personal property shall in no way alter Respondent's responsibilities under this Order.

5. Respondent shall ensure that its contractors, subcontractors, and representatives receive a copy of this Order and comply with this Order. Respondent shall be responsible for any noncompliance with this Order.

III. FINDINGS OF FACT

6. ITC is the owner, operator or person in charge of an onshore petrochemicals and tank farm facility located at or near the City of Deer Park in Harris County, Texas.

7. On or about March 17, 2019, the ITC facility experienced a fire, resulting in the continued use of firefighting water and foam needed to extinguish the fire. The resulting firefighting wastewater and foam collected in a tank farm's secondary containment within ITC's facility. On or about March 22, 2019, the secondary containment breached, resulting in an ongoing discharge of an unknown quantity of wastewater that includes, but is not limited to, the following hazardous substances: toluene, benzene, xylene, naphthalene, ethylbenzene, and styrene, among others. The discharge went into Tucker Bayou, and from there reached Buffalo Bayou, also known as the Houston Ship Channel, a navigable water of the U.S.

8. ITC's response to the discharge currently includes, in part, the use and application of booms.

9. At this time, the federal On-Scene Coordinator ("OSC") for this response operation, in accordance with 40 CFR Part 300, is Adam Adams of the EPA. A Declaration of OSC Adam Adams is attached and incorporated herein as Appendix 2.

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10. The EPA has determined, pursuant to CWA 311(e), 33 U.S.C. 1321(e), that there may be an imminent and substantial threat to the public health or welfare of the United States because of an actual or threatened discharge of a hazardous substance from a facility in violation of Section 311(b).

IV. CONCLUSIONS OF LAW

11. The ITC facility is an "onshore facility" as defined in Section 311(a)(11) of the CWA, 33 U.S.C. § 1321(a)(11).

12. Respondent is a "person" as defined by Sections 311(a)(7) and 502(5) of the CWA, 33 U.S.C. §§ 1321(a)(7) and 1362(5).

13. The ITC facility's discharge of hazardous substances constitutes a "discharge" as defined in Section 311(a)(2) of the CWA, 33 U.S.C. § 1321(a)(2), into or upon the navigable waters or the adjoining shorelines to the navigable waters, into or upon the waters of the exclusive economic zone, or that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States, including the inland zone.

14. The quantity of hazardous substances which Respondent's facility has discharged is a quantity that is harmful within the meaning of Section 311(b)(3) of the CWA, 33 U.S.C. § 1321(b)(3).

15. The Respondent's discharge poses an imminent and substantial threat to the public health or welfare of the United States, including fish, shellfish, wildlife, public and private property, shoreline, beaches, habitat, and/or living and nonliving natural resources.

16. The actions required by this Order are necessary to protect the public health and welfare of the United States, including fish, shellfish, wildlife, public and private property, shoreline, beaches, habitat, and/or living and nonliving natural resources.

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17. The actions required by this Order are in accordance with the National Contingency Plan ("NCP") and are authorized by the EPA pursuant to the authority granted in Sections 311(c), (e) and (m) of the CWA, 33 U.S.C. §§ 1321(c), (e) and (m), as delegated by the President in Executive Order 12777..

V. ORDER

18. Based upon the FINDINGS OF FACT and CONCLUSIONS OF LAW set forth above, the EPA hereby orders Respondent to comply with all requirements of this Order, specifically perform the actions described in the Statement of Work, attached and incorporated herein by reference as Appendix 1, and comply and maintain compliance with the Statement of Work, immediately upon receipt of this Order.

19. Within 12 hours of receipt of this Order, unless an extension is received and approved, Respondent shall provide the EPA On-Scene Coordinator ("OSC"), Adam Adams, a Work Plan and Quality Assurance and Quality Control ("QA/QC") Plan describing in detail Respondent's implementation of and compliance with this Order and the Statement of Work.

VI. RECORD RETENTION

20. Respondent shall preserve all documents and information relating to work performed under this Order, or relating to the hazardous substances found on or discharged from its facility, for six (6) years following completion of the actions required by this Order. At the end of this six-year period and 60 days before any document or information is destroyed, Respondent shall notify the EPA OSC that such documents and information are available for inspection, and upon request, shall provide the originals or copies of such documents and information to the EPA OSC. In addition, Respondent shall provide documents and information retained under this Section at any time before expiration of the six-year period upon the written

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March 23, 2019

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY, REGION 6

IN THE MATTER OF **Intercontinental Terminals Company LLC** Respondent **Harris County, Texas**	**CWA SECTION 311 ADMINISTRATIVE ORDER** Docket No. CWA _____

I. JURISDICTION AND GENERAL PROVISIONS

1. This Order is issued pursuant to the authority vested in the U. S. Environmental Protection Agency ("EPA") by Sections 311(c), (e) and (m) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1321 (c), (e) and (m).

2. This Order pertains to the discharge of hazardous substances from Intercontinental Terminals Company LLC's ("ITC" or "Respondent") petrochemicals facility that includes a tank farm at or near the City of Deer Park, Harris County, Texas. This Order requires ITC to conduct the actions described below to abate or mitigate an imminent and substantial threat to the public health or welfare of the United States that may be presented by the discharge or substantial threat of a discharge of hazardous substances from the above listed facility into or upon the navigable waters or adjoining shorelines of the United States.

3. The EPA has notified the State of Texas of this action pursuant to Section 311(e)(1)(B) of the CWA, 33 U.S.C. § 1321(e)(1)(B).

II. PARTIES BOUND

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4. This Order applies to and is binding upon Respondent and Respondent's heirs, directors, officers, employees, agents, receivers, trustees, successors and assigns. Any change in ownership or corporate status of Respondent including, but not limited to, any transfer of assets or real or personal property shall in no way alter Respondent's responsibilities under this Order.

5. Respondent shall ensure that its contractors, subcontractors, and representatives receive a copy of this Order and comply with this Order. Respondent shall be responsible for any noncompliance with this Order.

III. FINDINGS OF FACT

6. ITC is the owner, operator or person in charge of an onshore petrochemicals and tank farm facility located at or near the City of Deer Park in Harris County, Texas.

7. On or about March 17, 2019, the ITC facility experienced a fire, resulting in the continued use of firefighting water and foam needed to extinguish the fire. The resulting firefighting wastewater and foam collected in a tank farm's secondary containment within ITC's facility. On or about March 22, 2019, the secondary containment breached, resulting in an ongoing discharge of an unknown quantity of wastewater that includes, but is not limited to, the following hazardous substances: toluene, benzene, xylene, naphthalene, ethylbenzene, and styrene, among others. The discharge went into Tucker Bayou, and from there reached Buffalo Bayou, also known as the Houston Ship Channel, a navigable water of the U.S.

8. ITC's response to the discharge currently includes, in part, the use and application of booms.

9. At this time, the federal On-Scene Coordinator ("OSC") for this response operation, in accordance with 40 CFR Part 300, is Adam Adams of the EPA. A Declaration of OSC Adam Adams is attached and incorporated herein as Appendix 2.

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10. The EPA has determined, pursuant to CWA 311(e), 33 U.S.C. 1321(e), that there may be an imminent and substantial threat to the public health or welfare of the United States because of an actual or threatened discharge of a hazardous substance from a facility in violation of Section 311(b).

IV. CONCLUSIONS OF LAW

11. The ITC facility is an "onshore facility" as defined in Section 311(a)(11) of the CWA, 33 U.S.C. § 1321(a)(11).

12. Respondent is a "person" as defined by Sections 311(a)(7) and 502(5) of the CWA, 33 U.S.C. §§ 1321(a)(7) and 1362(5).

13. The ITC facility's discharge of hazardous substances constitutes a "discharge" as defined in Section 311(a)(2) of the CWA, 33 U.S.C. § 1321(a)(2), into or upon the navigable waters or the adjoining shorelines to the navigable waters, into or upon the waters of the exclusive economic zone, or that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States, including the inland zone.

14. The quantity of hazardous substances which Respondent's facility has discharged is a quantity that is harmful within the meaning of Section 311(b)(3) of the CWA, 33 U.S.C. § 1321(b)(3).

15. The Respondent's discharge poses an imminent and substantial threat to the public health or welfare of the United States, including fish, shellfish, wildlife, public and private property, shoreline, beaches, habitat, and/or living and nonliving natural resources.

16. The actions required by this Order are necessary to protect the public health and welfare of the United States, including fish, shellfish, wildlife, public and private property, shoreline, beaches, habitat, and/or living and nonliving natural resources.

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17. The actions required by this Order are in accordance with the National Contingency Plan ("NCP") and are authorized by the EPA pursuant to the authority granted in Sections 311(c), (e) and (m) of the CWA, 33 U.S.C. §§ 1321(c), (e) and (m), as delegated by the President in Executive Order 12777..

V. ORDER

18. Based upon the FINDINGS OF FACT and CONCLUSIONS OF LAW set forth above, the EPA hereby orders Respondent to comply with all requirements of this Order, specifically perform the actions described in the Statement of Work, attached and incorporated herein by reference as Appendix 1, and comply and maintain compliance with the Statement of Work, immediately upon receipt of this Order.

19. Within 12 hours of receipt of this Order, unless an extension is received and approved, Respondent shall provide the EPA On-Scene Coordinator ("OSC"), Adam Adams, a Work Plan and Quality Assurance and Quality Control ("QA/QC") Plan describing in detail Respondent's implementation of and compliance with this Order and the Statement of Work.

VI. RECORD RETENTION

20. Respondent shall preserve all documents and information relating to work performed under this Order, or relating to the hazardous substances found on or discharged from its facility, for six (6) years following completion of the actions required by this Order. At the end of this six-year period and 60 days before any document or information is destroyed, Respondent shall notify the EPA OSC that such documents and information are available for inspection, and upon request, shall provide the originals or copies of such documents and information to the EPA OSC. In addition, Respondent shall provide documents and information retained under this Section at any time before expiration of the six-year period upon the written

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request of the EPA.

21. Respondent may assert a business confidentiality claim pursuant to 40 C.F.R. § 2.203(b) with respect to part or all of any information submitted to the EPA pursuant to this Order, provided such claim is allowed by Section 308(b)(2) of CWA, 33 U.S.C. § 1318(b)(2). The EPA shall only disclose information covered by a business confidentiality claim to the extent permitted by, and by means of the procedures set forth at 40 C.F.R. Part 2, Subpart B. If no such claim accompanies the information when it is received by the EPA, the EPA may make it available to the public without further notice to Respondent.

22. Respondent may assert that certain documents, records and other information requested are privileged under the attorney-client privilege or any other privilege recognized by federal law. If the Respondent asserts such a privilege in lieu of providing documents, Respondent shall provide the EPA with the following:

(1) the title of the document, record, or information;
(2) the date of the document, record, or information;
(3) the name and title of the author of the document, record, or information;
(4) the name and title of each addressee and recipient;
(5) a description of the contents of the document, record, or information; and
(6) the privilege asserted by Respondent.

However, no documents, reports or other information created or generated pursuant to the requirements of the Order shall be withheld on the grounds that they are privileged.

VII. ENFORCEMENT: PENALTIES FOR NONCOMPLIANCE

23. Violation of, or failure to comply with any of the provisions of the foregoing Order (including, but not limited to failure to follow the Statement of Work, the Work Plan and QA/QC Plan, failure to provide sampling data to the EPA, may subject Respondent to civil penalties of up to $47,357 per day of violation as a result of such failure pursuant to Sections 309 and

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311(b)(7) of the Act, 33 U.S.C. §§ 1319 and 1321(b)(7) and 40 C.F.R. Part 19, and to criminal fines pursuant to Section 309 of the Act, 33 U.S.C. § 1319.

24. Violation of, or failure to comply with any provision of this Order, may also subject Respondent to the loss of any defense to liability in accordance with 33 U.S.C. Section 2703(c)(3), and may also subject Respondent to the loss of any limits to liability in accordance with 33 U.S.C. Section 2704(c)(2)(C).

25. Violation of, or failure to comply with any provision of this Order, the Statement of Work, the Work Plan or the QA/QC Plan, shall not be construed in any way to limit the authority of the EPA OSC to take, direct, or order all actions, including an order to cease and desist any and all actions, under this Order.

26. Information submitted pursuant to this Order must include the following Statement of Certification signed by a knowledgeable representative who is authorized by ITC to certify the truthfulness, accuracy and completeness of the response on behalf of ITC as well as the signing representative:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on any personal knowledge I may have and my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

The signed and dated Statement of Certification certifies, among other things, that the response is

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complete and contains all information and documentation available to ITC or its representatives, or developed by ITC or its representatives, pursuant to this Order.

27. If Respondent is unable to comply with the requirements of this Order by the due dates specified above, Respondent shall notify the EPA OSC at (214) 665-2779 within 24 hours of becoming aware of such inability and no later than the due date specified above.

VIII. RESERVATION OF RIGHTS

28. Nothing in this Order shall be construed to relieve Respondent of the requirements of the CWA or any other applicable requirements under federal, state or local law. The EPA reserves the right to take, direct, or order all actions as necessary as authorized by law for any violation of this Order, and for the future or past violations of the CWA.

29. Except as specifically provided in this Order, nothing herein shall limit the power and authority of the EPA or the United States to take, direct, or order all actions necessary to protect public health or welfare of the United States, or to prevent, abate, or minimize an actual or substantial threat of a discharge of oil, hazardous substances, pollutants or contaminants, or hazardous or solid waste on, at, from or outside the facility. Further, nothing herein shall prevent the EPA from seeking legal or equitable relief to enforce the terms of this Order, from taking other legal or equitable action as it deems appropriate and necessary, or from requiring the Respondent in the future to perform additional activities pursuant to CWA or any other applicable law. The United States reserves the right to bring an action against Respondent under Section 311(f) of CWA, 33 U.S.C. §1321(f), and/or Sections 1002 and 1015 of Oil Pollution Act, 33 U.S.C. §§ 2702 and 2715, for recovery of any costs incurred by the United States related to this Order and not reimbursed by Respondent. Response costs shall include, but are not limited to, past costs, direct costs, indirect costs, costs of monitoring, oversight costs and accrued interest

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as provided in Section 311(f) of CWA, 33 U.S.C. §1321(f), and §1005 of OPA, 33 U.S.C. Section 2705.

30. Notwithstanding any other provision of this Order, at any time during the performance of the activities required by this Order, the EPA reserve the right to perform their own studies, take over and/or complete the activities (*or any portion of the activities*) under this Order, and seek reimbursement from Respondent for their costs, or seek any other appropriate relief.

31. Nothing in this Order shall preclude the EPA from taking any additional enforcement actions, including modification of this Order or issuance of additional Orders, and/or additional activities or response actions as the EPA may deem necessary, or from requiring Respondent in the future to perform additional activities pursuant to the Resource Conservation and Recovery Act ("RCRA") as amended by the Hazardous and Solid Waste Act ("HSWA"), the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), the Clean Water Act ("CWA"), the Oil Pollution Act ("OPA"), or any other applicable law. Nothing in this Order shall preclude any other federal agency from taking additional enforcement actions, including any enforcement action taken by the U.S. Coast Guard, under any other applicable federal statutes.

32. Pursuant to Section 311(c) of the Clean Water Act, 33 U.S.C. § 1321(c), the USCG and the EPA and their agents are authorized to perform the activities necessary to assess the source, nature and extent of the discharge or threatened discharge at the facility and to remove the discharge or to prevent threatened discharges of oil or hazardous substances. Notwithstanding any provision of this Order, the United States hereby reserves all of its information-gathering, inspection and all enforcement authorities and rights under all applicable

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statutes and regulations. The United States expressly reserves all rights it has to issue additional Orders or to take any other action it deems necessary to protect the public health or welfare of the United States.

33. Notwithstanding any provision of this Order, the EPA reserve the right to assess an administrative penalty pursuant to Section 311(b)(6) of CWA, 33 U.S.C. § 1321(b)(6), and/or to seek a civil penalty pursuant to Section 311(b)(7), 33 U.S.C. §1321(b)(7).

34. Nothing in this Order shall limit the authorities of the On-Scene Coordinator as outlined in the National Contingency Plan.

35. If a court issues an Order that invalidates any provision of this Order or finds that Respondent has sufficient cause not to comply with one or more provisions of this Order, Respondent shall remain bound to comply with all provisions of this Order not invalidated by such court's Order.

IX. MODIFICATIONS

36. Modifications to any plan or schedule (or the attached Statement of Work) required by this Order, may be made in writing by the EPA OSC. If the EPA OSC makes an oral modification, it will be memorialized in writing within ten (10) working days, provided, however, that the effective date of the modification shall be the date of the EPA OSC's oral direction. Modifications to any portion of the Order, other than plans or schedules, may only be made in writing under signature of the EPA Region 6 Superfund Division Director.

37. If Respondent seeks permission to deviate from any approved plan or schedule (or the attached Statement of Work), Respondent shall submit a written request to the EPA OSC for approval outlining the proposed modification and its basis.

38. No informal advice, guidance, suggestion, or comment by the EPA regarding

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reports, plans, specifications, schedules, or any other writing submitted by the Respondent shall relieve the Respondent of its obligations to obtain such formal approval as may be required by this Order, and to comply with all requirements of this Order unless it is formally modified.

X. EFFECTIVE DATE

39. This order shall be effective upon receipt by the Respondent.

Ronald D Cranford Date: 3/23/19

Carl Edlund, P.E.
Director
Superfund Division
U.S. EPA Region 6
Dallas, TX 75202

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Appendix 1 of the Clean Water Act Section 311 Order

Statement of Work

The Respondent shall:

1. Secure the remaining material in the tanks by any means necessary as to prevent a release of hazardous substances, pollutants or contaminants, or a discharge of oil or hazardous substances. Options to secure the material include, but are not limited to, pumping, transfer, isolating, placing barriers, cooling, etc.;
2. Remove the remaining material in secondary containment, including oil, hazardous substances, and firefighting foam and dispose of according to state and federal regulations;
3. Remove the spilled material, including oil, hazardous substances, and fire fighting foam from the facility ditch, downstream waters and shoreline such as Tucker and Buffalo Bayous, and the Houston Ship Channel. Install the necessary barriers to prevent these materials from migrating further downstream;
4. Prevent the release of air emissions that will exceed concentrations harmful to human health and the surrounding environment;
5. Dispose of all waste in accordance with all State and Federal requirements;
6. Continue air monitoring activities to determine if a release of a hazardous substance that could be harmful to human health has occurred. If such a release has been detected, immediately notify the appropriate federal, state, and local agencies, so appropriate measures can be taken to protect the surrounding communities;
7. Conduct surface water sampling to evaluate the levels of contaminants released into Tucker Bayou and Buffalo Bayou. This shall include Per- and Polyfluoroalkyl Substances (PFAS).
8. Secure the necessary resources to accomplish the tasks described above, and,
9. Implement any additional response actions as deem necessary by the Federal On-Scene Coordinator.

DRAFT - March 23, 2019

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY, REGION 6

IN THE MATTER OF **Intercontinental Terminals Company** Respondent **Harris County, Texas**	DECLARATION OF ADAM ADAMS IN SUPPORT OF ADMINISTRATIVE ORDER

DECLARATION OF ADAM ADAMS

I certify under penalty of perjury that the following is, to the best of my knowledge and belief, true and accurate:

1. My name is Adam Adams. I am an employee of the U. S. Environmental Protection Agency ("EPA"). I have been continuously employed by the EPA as an On-Scene Coordinator ("OSC") since September 16, 2007. I am the OSC assigned to the response for the Intercontinental Terminals Company LLC ("ITC") fire incident that began at its Deer Park, Harris County facility on or about March 17, 2019 and which continued for several days.

2. My duties as an OSC include directing and coordinating response actions under the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S. Code Section 9601, *et. seq.*, and for the removal of a discharge of hazardous substances from waters of the U.S. under Section 311 of the Clean Water Act ("CWA"), 33 U.S. Code Section 1321. These include emergency response actions as the circumstances dictate.

3. Part of my duties as an OSC also include directing the mitigation or prevention of a substantial threat of a discharge of hazardous substances into waters of the U.S.

4. On March 17, 2019, I deployed to the ITC petrochemical and tank farm facility in Deer Park,

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Harris County, Texas as a result of a fire at its facility. Once deployed, I arrived at the Unified Command at ITC's facility, which includes representatives from the U.S. Coast Guard, Harris County, the Texas Commission on Environmental Quality ("TCEQ") and ITC, to direct the emergency response to the March 17, 2019 incident.

5. Part of my duties with the response include the deployment of air monitors throughout the area to monitor for elevated levels of contaminants, including hazardous substances, in the air. One such monitor detected a low-level amount of benzene near the facility.

6. During the response, firefighting efforts involved the use of water and firefighting foam from multiple agencies and from multiple locations to extinguish the fire or cool nearby facility tanks, piping, etc. in the tank farm. Foam was applied almost continuously as it was available up until March 20, 2019, at which point the initial fire was suppressed. Afterwards, foam was utilized intermittently to suppress vapor emissions. Due to the volume of fire water and foam utilized and the limited capacity of the tank farm secondary containment, the fire liquids have been observed draining from the tank farm to the ditch to the west into Tucker Bayou and then into Buffalo Bayou, also known as the Houston Ship Channel.

7. On March 22, 2019, an EPA airplane designed to detect hazardous substances in the air flew overhead and took aerial photographs of the ground underneath, including the ITC facility, Tucker Bayou and the Houston Ship Channel. The Houston Ship Channel is a large waterway that has a direct connection to the Gulf of Mexico that is used by very large commercial vessels to transport goods. Two of these photographs depict a sheen flowing from the ITC facility and into Tucker Bayou and the Houston Ship Channel, also known as Buffalo Bayou.

8. The two photographs mentioned in Paragraph 7 are attached and incorporated by reference herein to my affidavit. I have looked at these two photographs, and they accurately depict an aerial view of the sheen and discharge into the Houston Ship Channel.

ED_002627_00017303-00017

9. I have also personally observed a sheen and foamy, chemical-looking substance on the surface of the Houston Ship Channel in the same area depicted in the photographs.

10. On or about March 22, 2019 I discovered that the secondary containment breached, discharging its contents into Tucker Bayou and the Houston Ship Channel.

11. EPA contractors took samples of the contents discharging from the secondary containment's outfall. Sampling analyses identified hazardous substances including but not limited to the following: toluene, benzene, xylene, and styrene.

12. The amount discharged is unknown at the time, but it is a large amount involving hundreds, if not thousands, of gallons of firefighting wastewater.

13. ITC has placed booms in the Houston Ship Channel to recover and remove the contaminated firefighting wastewater from the surface. However, the water column underneath the booms is not being addressed.

14. The firefighting wastewater contents within the secondary containment at the ITC facility are not being addressed. The contents are not being removed and properly disposed of.

15. On or about March 22 and March 23 I orally directed representative of ITC to take actions to mitigate the release of hazardous substances. ITC has failed to take adequate actions as of the signing of this statement.

16. The conditions I've described above constitute an imminent and substantial threat and endangerment to public health and welfare and the environment.

_____ Date: 03/23/2019

Adam Adams, EPA On-Scene Coordinator

ED_002627_00017303-00018

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/23/2019 9:45:00 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]
CC: ran2@cdc.gov; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]; Lyke, Jennifer [Lyke.Jennifer@epa.gov]; Jack Hanley [jah8@cdc.gov]
Subject: Fwd: TPCN Call Summary, Deer Park Fire Update #4
Attachments: 03-23-19_ITC_Fire_Update_04.docx; ATT00001.htm

Data on calls from TDSHS. PCC SITREP out Monday.

Sent from my iPhone

Begin forwarded message:

> **From:** "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>
> **Date:** March 23, 2019 at 3:01:35 PM CDT
> **To:** "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, "Young, Patrick" <young.patrick@epa.gov>, Melody Gardner <MELODY.GARDNER@phhs.org>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Baker, David" <David.Baker@BSWHealth.org>, Sal Baeza <sbaeza@umcelpaso.org>, "Jeanie.Jaramillo@ttuhsc.edu" <Jeanie.Jaramillo@ttuhsc.edu>, Veronica Stoller <stoller@uthscsa.edu>, "Bojes,Heidi (DSHS)" <Heidi.Bojes@dshs.texas.gov>, Dazhe Cao <Dazhe.Cao@UTSouthwestern.edu>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, "Jacob Kay" <JACOB.KAY@phhs.org>
> **Cc:** "Lyke, Jennifer" <Lyke.Jennifer@epa.gov>, "Reategui-Zirena,Evelyn (DSHS)" <Evelyn.Reategui-Zirena@dshs.texas.gov>, "Kessinger,Jessica (DSHS)" <Jessica.Kessinger@dshs.texas.gov>
> **Subject: TPCN Call Summary, Deer Park Fire Update #4**
>
> All,
>
> Please see the attached summary of incident-related calls to the Texas Poison Center Network as of 4:30AM this morning, 3/23/2019.
>
> Thank you,
> Emily
>
> Emily Hall, MPH
> Manager, Environmental Surveillance and Toxicology Branch
> Texas Department of State Health Services
> (512) 776-2652
>
> *Please note* My email address has changed to reflect @dshs.texas.gov domain. Please be sure to update your contact information with the new address.

Intercontinental Terminal Company Fire in Deer Park, Texas
Calls to the Texas Poison Center Network

Update #4 as of 4:30 AM, 03/23/2019

As of the update date and time there have been **125 calls** related to the fire at the Intercontinental Terminal Company (ITC) facility in Deer Park, TX. Numbers are subject to change.

The tables below give a brief summary of the types of calls the Poison Centers are receiving and information on the callers or patients.

	Exposure	Information	Total
Calls per day			
3/17/2019	1	0	**1**
3/18/2019	4	2	**6**
3/19/2019	6	1	**7**
3/20/2019	5	1	**6**
3/21/2019	73	6	**79**
3/22/2019	19	4	**23**
3/23/2019	1	2	**3**
Total	**109**	**16**	**125**
Patient Age Group			
>13	9	0	**9**
19-19	7	0	**7**
20-29	20	0	**20**
30-39	14	0	**14**
40-49	20	0	**20**
50-59	10	0	**10**
<=60	11	0	**11**
Total	**91**	**0**	**91**
**Missing = 34			
Caller Relation to Patient			
Medical Professional (500-504)*	40	1	**41**
Self (505)*	36	1	**37**
Relative (506-510)*	20	0	**20**
Other (512)*	1	0	**1**
Total	**97**	**2**	**99**
**Missing = 26			
Caller Site			
Own Residence (230)*	60	2	**62**
Other residence (231)*	1	0	**1**
Health Care Facility (233)*	46	0	**46**
Other (237)*	1	0	**1**
**Missing/Unknown = 15			

* The number in the parenthesis () corresponds to the code in Toxicall
** Number missing from category

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The table below displays the total number of information calls received, grouped by the type of information call.

Type of Information Call	
Type	Frequency
Drug Information	1
Environmental Information	13
Poison Information	2

The table below displays information about the different substances reported on each call. Each call can have multiple substances reported. The table displays the substances called about by day and how if the substance was reported on an Exposure call or Information call. The uptick in calls related to Benzene and Smoke had a large increase on Mar 21 after the shelter in place was issued.

	Benzene	Carbon Monoxide	Ethylene Dichloride	General / Unknown	Hydro carbon	Indoor Air Quality	Naptha	Smoke	Toluene	Xylene	**Total**
3/17/2019	0	0	0	0	1	0	0	0	0	0	**1**
3/18/2019	0	1	0	1	0	0	3	1	2	3	**11**
3/19/2019	0	1	1	0	1	1	1	3	1	2	**11**
3/20/2019	5	0	0	0	0	0	3	0	3	3	**14**
3/21/2019	42	1	0	0	0	0	0	49	0	0	**92**
3/22/2019	12	0	0	0	0	0	0	12	0	0	**24**
3/23/2019	0	0	0	0	0	0	0	2	0	0	**2**
Exposure Calls	50	3	1	1	2	0	5	64	4	6	**136**
Information Calls	9	0	0	0	0	1	2	3	2	2	**19**
Total	**59**	**3**	**1**	**1**	**2**	**1**	**7**	**67**	**6**	**8**	**155**

The next two tables relate to Exposure calls only (N=109):

Management Site	
Managed on site (110)*	57
Patient enroute to HCF when PCC called (111)*	43
Patient referred by PCC to a HCF (112)*	9

Missing = 16
HCF: Health Care Facility
PCP: Poison Control Center
* The number in the parenthesis () corresponds to the code in Toxicall

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Exposure Site by Exposure Reason					
	Unintentional General	Unintentional Environmental	Unintentional Occupational	Adverse reaction	**Total**
Own residence	7	68	0	1	**76**
Other residence	0	2	0	0	**2**
Workplace	0	4	6	0	**10**
School	0	1	0	0	**1**
Public area	0	17	0	0	**17**
Other/Unknown	0	3	0	0	**3**
Total	**7**	**95**	**6**	**1**	**109**

Missing=16

Codes use to find calls related to the ITC Chemical Fire

- FreeArea1 = PHEMERG/EVENT (5233)
  - So far only 17 of the 33 calls were coded as such
- Subgenericcode
  - 0191103
  - 0227000
  - 0039502
  - 0191500
  - 0192000
  - 0050430
- Startdate >= March 17, 2019
- Subverbatim
  - Naptha
  - Toluene
  - Xylene
  - Smoke
- Subdesc
  - Hydrocarbon
  - Indoor air quality
  - Air quality
  - Soot
- Notes
  - Plant fire
  - Chemical plant
  - Deer park
  - Air quality
  - Deer park fire
  - Soot

Message

From: Jonathan Walling [jonathan.walling@tceq.texas.gov]
Sent: 4/8/2019 5:32:49 PM
To: HSNotify [HSNotify@tceq.texas.gov]; IGR [IGR@tceq.texas.gov]
Subject: Update 23: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 23

Overnight winds were south 5-10 mph, turning westerly around 10:00pm. Winds are expected to be northwest 5-10 mph with gusts to 20 mph today.

Benzene measurements at downwind stationary monitors remain in the low ppb range, with the exception of a 6.5 ppb spike measured during the 11:00pm hour at Lynchburg.

Yesterday, storms limited the ability to sample. During the overnight hours with winds from the west-northwest, the TCEQ monitoring van was located at the Brownwood Dr. location in Baytown. No detectable levels of benzene were measured.

PM2.5 measurements across Houston this morning are in the "good to moderate" range (based on EPA's AQI scale). The area could continue to be impacted by smoke from agricultural burning in Mexico and Central America.

As of the April 8, 2019, 7:00 am tank volume report, the volume of liquid wastes from the event are being accumulated in Tank 100-28 (29,401 bbl), Tank 100-31 (95,647 bbl), Tank 80-33 (43,077 bbl), Tank 80-34 (50,717 bbl), Tank 50-2 (50,812 bbl), Tank 100-15 (72, 990 bbl), Tank 100-1 (12,963 bbl) and Tank 100-19 (64,705 bbl).

Based on information from Unified Command, as of April 8, 2019, the reported total amount of contaminated water recovered was 264,050 bbl. Of this, 110,070 bbl were collected by on-water operations and 153,980 bbl from the tank farm area. ITC reported the total volume of contaminated solids (PPE, absorbent pads, and boom) collected is 356 cubic yards. CTEH brought in a waste handling specialist to evaluate the status of solid waste management activities and is expected to provide an updated volume on April 8, 2019.

All on-water operations ceased at approximately 10:30 am April 7, 2019, due to inclement weather and a tornado warning. One operations team was sent to assess the booms around Goat Island. Strong winds displaced booms in the Houston Ship Channel and the San Jacinto River resulting in the suspension of vessel traffic. Crews restored the booms between 1:00 pm and 3:00 pm April 7, 2019.

ITC continued the skimming of Tucker Bayou and the Tidal Road ditches before and after the storm.

Shoreline Cleanup and Assessment Technique (SCAT) and Rapid Assessment Teams (RAT) were not deployed on April 7, 2019, due to inclement weather. A RAT team consisting of three boats will evaluate the status of the Houston Ship Channel and connected waterways on April 8, 2019.

The TAGA vehicle conducted air monitoring at 61 locations downwind of the tank farm and near Southwest Shipyard on April 7, 2019. One benzene reading of 1.0 ppm and total VOC reading of 1.1 ppm were obtained at 9:22 am April 7, 2019, on Market Street. There was one total VOC reading of 7 ppm at 10:59 am April 7, 2019 at Northshore 9th Grade Campus (near Woodforest Blvd and Freeport St). These readings are potentially affiliated to the industrial area.

On April 7, 2019, teams of TCEQ regional investigators and the TCEQ contractor, SWS, continued to conduct odor surveys and air monitoring throughout the community downwind of ITC using handheld instruments. Air monitoring teams were placed on standby while severe weather moved through the area. Monitoring activities resumed at approximately 3:00 pm on April 7, 2019. There were no readings exceeding action levels set by Unified Command.

At 5:06 pm April 7, 2019, CTEH provided an Analytical Air Sampling Adjustment Plan, dated April 6, 2019. The plan presents criteria that would be evaluated to determine that a reduction in ambient analytical air sampling efforts is appropriate. The plan was forwarded to the TCEQ Region 12 Air Section management team for review.

At approximately 12:15 pm April 7, 2019, ITC requested approval from Unified Command to discharge non-contact stormwater. Unified Command approved the request on the condition that ITC follow the approved plan.

On April 7, 2019, an updated plan for managing incident wastewater on-site and a treatability study was provided to TCEQ for review. The plan provides for the treatment of incident wastewater in the on-site wastewater treatment plant after phase separation and characterization. The proposed plan requests permission to discharge a maximum of 300,000 gallons of treated wastewater per day from outfall 002.

From: Jonathan Walling
Sent: Sunday, April 7, 2019 11:51 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 22: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 22

Overnight winds were southeast at 5-10 mph. Winds are expected to continue out of the southeast today around 10mph with intermittent thunderstorms likely.

Benzene measurements at downwind stationary monitors remain in the low ppb range with all downwind monitors measuring benzene concentrations at 1.0 ppb or less.

Yesterday and overnight, the TCEQ monitoring van sampled at the De Zavalla Rd. location in Channelview. Only one sample run measured a detectable level of benzene (11 ppb at 5:40am).

PM2.5 measurements across Houston this morning are in the "good" range but could increase into the "moderate" range (based on EPA's AQI scale) due to smoke from agricultural burning in Mexico and Central America.

As of the April 7, 2019, 7:00 am tank volume report, the volume of liquid wastes from the event are being accumulated in Tank 100-28 (27,670 bbl), Tank 100-31 (95,647 bbl), Tank 80-33 (42,936 bbl), Tank 80-34 (53,124 bbl), Tank 50-2 (50,812 bbl), Tank 100-15 (64,838 bbl), Tank 100-1 (19,053 bbl) and Tank 100-19 (71, 972 bbl).

Based on the information from the Unified Command, as of April 6, 2019, the reported total amount of contaminated water recovered was 260,703 bbl. Of this, 106,723 bbl were collected by on-water operations and 153,980 bbl from the tank farm area.

ITC continued 24-hour flushing of Tucker Bayou and is removing the liquid wastes from the operations via skimmers at Dock 4 and Dow Bridge to Tanks 80-33 and 100-28.

On April 6, 2019, an assessment boat team was developed under the Water Operations Section of Unified Command to observe and survey for oil that may have escaped from booms and any concerns for wildlife, with an initial focus on the area around Goat Island. "Hot shot" boat teams were also created under the Water Operations Section of Unified Command to assess and reposition booms from the assessment team's observations.

In anticipation of heavy rainfall, ITC prepared a diversion channel in the ditch along Tidal Rd. for stormwater to pass through the ditch along Tidal Rd. without coming into contact with contaminated areas. Water operations under Unified Command will not be conducted on April 7, 2019, due to forecasted rain and storm. Shoreline Cleanup Assessment Technique (SCAT) and Rapid Assessment Teams (RAT) teams are not scheduled for April 7, 2019.

The EPA ASPECT aircraft returned to Dallas on April 5, 2019 for maintenance and will return as needed. The TAGA vehicle conducted community monitoring downwind of and around the tank farm. No community impacts were detected.

The air monitoring strike team from Unified Command had intermittent detections of 0.6 ppm and 4.5 ppm benzene on April 6, 2019 near Southwest Shipyard in Channelview. The TCEQ sent an air monitoring team to conduct Optical Gas Imaging Camera (OGIC) surveys of the area. The team detected VOC fugitive emissions from a barge cleaning facility.

On April 6, 2019, teams of TCEQ regional investigators and the TCEQ contractor, SWS, continued to conduct odor surveys and air monitoring throughout the community using handheld instruments. There were no readings exceeding action levels set by Unified Command. Community monitoring will continue on April 7, 2019, as weather permits.

During the day on April 6, 2019, water samples were collected at 22 sites by three TCEQ regional teams and one TCEQ Contractor team. The TCEQ Contractor team sampled four sites at ITC; surface water quality monitoring sampled 12 sites east of Channelview, as far as the eastern border of Galveston Bay and as far south as Kemah; and an additional shore sampling team sampled six sites on the Gulf side of Galveston Island and Crystal Beach in Bolivar Peninsula. A sheen was observed by the surface water quality monitoring team while sampling by Houston Ship Channel Marker 120 (San Jacinto Monument at Confluence of Greens Bayou). This information was forwarded to Unified Command and a water operations team was sent out on April 6, 2019 to assess the sheen. The TCEQ is continuing to assess surface water quality sampling data as preliminary and final laboratory results are received. No SCAT teams were out on April 6, 2019.

From: Jonathan Walling
Sent: Saturday, April 6, 2019 12:43 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 21: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 21

Overnight winds were east to southeast at 5-10 mph. Winds are expected to continue out of the southeast today around 10mph with intermittent thunderstorms likely.

Benzene measurements at downwind stationary monitors remain in the low ppb range with the highest concentration of 9.6 ppb measured at the HRM #3 Haden Rd. monitor at 4:00pm yesterday. All downwind monitors are showing benzene concentrations less than 1.0 ppb this morning.

Yesterday, the TCEQ monitoring van began sampling at the Magnolia Ln. location in Deer Park from 8:00am to 2:30pm. No detectable levels of benzene were measured. At approximately 3:00pm, the van relocated to the De Zavalla Rd. location in Channelview, due to winds shifting to the southeast. Monitoring continued at that location throughout the afternoon and overnight. Only one sample run measured a detectable level of benzene, a 12 ppb hit at approximately 5:20am this morning. Sampling has been occasionally interrupted due to rain.

PM2.5 measurements across Houston this morning are in the "good" range but are expected to increase into the "moderate" range (based on EPA's AQI scale) due to smoke from agricultural burning in Mexico and Central America.

As of the April 6, 2019, 7:00 am tank volume report, the volume of liquid wastes from the event are being accumulated in Tanks 100-28(21,163 bbl), Tank 100-31(95,647 bbl), Tank 80-33(41,094 bbl), Tank 80-34(60,451 bbl) and Tank 50-2(43,216 bbl). The tank farm continues to receive foam. As of April 5, 2019, the reported total amount of contaminated water recovered was 244,281 bbl. Of this, 99,386 bbl were collected by on-water operations and 127,457 bbl from the tank farm area.

ITC continued 24-hour flushing of Tucker Bayou and is removing the liquid wastes from the operations via skimmers at Dock 4 and Dow Bridge to Tanks 80-33 and 100-28.

On April 5, 2019, ITC provided a response to questions posed by the TCEQ concerning wastewater operations and tanks that have stored waste related to the incident. ITC provided a map (attached) of the storage tanks associated to their wastewater treatment system storage tanks and tanks designated as "incident related tanks." ITC also provided a tank volume report of the tanks utilized during the incident. This information is being reviewed by the TCEQ.

The EPA ASPECT aircraft returned to Dallas on April 5, 2019 for maintenance and will return as needed. The TAGA vehicle conducted community monitoring downwind of and around the tank farm. No community impacts were detected.

During the day on April 5, 2019, the Unified Command's Environmental Unit sent sampling teams from CTEH to address allegations and complaints concerning a foam-like substance in residential areas of Channelview and east Harris County. The teams observed foam but were unable to retrieve a viable sample on April 5, 2019. The Environmental Unit is currently developing a procedure to address incoming foam allegations and complaints.

On April 5, 2019, teams of TCEQ regional investigators and the TCEQ contractor, SWS, continued to conduct odor surveys and air monitoring throughout the community using handheld instruments. There were no readings exceeding action levels set by Unified Command. Community monitoring will continue on April 6, 2019, as weather permits.

During the day on April 5, 2019, water samples were collected at 11 sites by two TCEQ regional teams. One surface water quality monitoring team was unable to launch due to unsafe fog conditions in upper Galveston Bay. Sampling areas were east of Channelview, as far as the eastern border of Galveston Bay and as far south as Kemah. Five sites were sampled by surface water quality monitoring teams and six sites by the shore team along the Gulf side of Galveston Island and Crystal Beach on Bolivar Peninsula. Four sites were sampled by SWS at ITC. The TCEQ is continuing to assess surface water quality sampling data as preliminary and final laboratory results are received. Two Shoreline Cleanup Assessment Technique (SCAT) teams operated along the shoreline of the Houston Ship Channel near Jacinto Port and Galveston Bay on Goat Island. One Rapid Assessment Team assisted in SCAT activities. The SCAT teams observed oil on Goat Island that had escaped from nearby booms and operations teams were sent out to fix the booms to prevent oil from escaping onto Goat Island. TCEQ had one person on a SCAT team on April 5, 2019 but will not have anyone on a SCAT team for April 6, 2019.

From: Jonathan Walling
Sent: Friday, April 5, 2019 11:45 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 20: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 20

Overnight winds were southwest at 5 mph, becoming light and variable after midnight. Winds are expected to be out of the southeast today at 5-10mph.

Benzene measurements at stationary monitors remain in the low ppb range. There was a period of elevated benzene measured at Lynchburg Ferry between 10:00pm and midnight with a peak concentration of 64.1 ppb. All downwind monitors are showing benzene concentrations less than 1.0 ppb this morning.

Yesterday, the TCEQ monitoring van sampled at the DeZavalla Rd. location in Channelview. No compounds were measured above detection levels. Around 1:00pm, the van relocated to the Lynchburg Ferry area due to the southwest winds. Between 1:00pm and 3:00am this morning, only three sample runs detected measurable amounts of benzene, with a peak concentration of 51ppb. The van relocated to Magnolia Ln. in Deer Park around 3:45am due to shifting winds. No benzene detections were measured at this location.

PM2.5 measurements across Houston this morning are in the "good to moderate" range (based on EPA's AQI scale).

As of the April 5, 2019 7:00 am tank volume report, the volume of liquid wastes from the event are being accumulated in Tanks 100-28(20,380 bbl), Tank 100-31(93,792 bbl), Tank 80-33(39,050 bbl), Tank 80-34(59,853 bbl) and Tank 50-2(39,505 bbl). As of April 4, 2019, the reported total amount of contaminated water recovered was 209,465 bbl. Of this, 89,576 bbl were collected by on-water operations and 127,457 bbl from the tank farm area. The tank farm continues to receive foam.

In the anticipation of heavy rainfall, ITC has stationed three 70 bbl vac trucks along the tank farm and ditch along Tidal Road to collect contaminated water from the tank farm and ditch. In addition, Unified Command has established and approved a safety procedure to halt operations in case of lightning within the operations area.

ITC requested approval for use of Micro-Blaze outside the tank farm.

ITC continued 24-hour flushing of Tucker Bayou. ITC requested approval to bypass outfall 003 and release the non-contact stormwater from the tank farm areas not impacted by the fire to the Tidal Road ditch at the corner of Tidal Road and ITC Easement (marked in bold in attached map). ITC will use a pump and hose to conduct this operation (route highlighted in the attached map) The facility plans to sample on April 5, 2019, from the tank farm's normal discharge point prior to release. This request has been forwarded to TCEQ for review.
The EPA ASPECT aircraft was grounded on April 4, 2019, due to weather conditions. The TAGA vehicle conducted community monitoring downwind of and around the tank farm. No community impacts were detected.

On April 4, 2019, TCEQ received two allegations that were referred to Unified Command concerning a foam-like substance in residential areas of Channelview and east Harris County. Harris County Pollution Control received six complaints of a foam- like substance in residential areas of Channelview and Houston. CTEH is planning to send response teams to observe and collect samples on April 5, 2019.

On April 4, 2019, teams of TCEQ regional investigators and the TCEQ contractor, SWS, continued to conduct odor surveys and air monitoring throughout the community using handheld instruments. There were no readings exceeding action levels set by Unified Command. Community monitoring will continue on April 5, 2019, as weather permits.

During the day on April 4, 2019, water samples were collected at seventeen sites by three TCEQ regional teams. Sampling areas were east of Channelview, as far as the eastern border of Galveston Bay and as far south as Kemah. Eleven sites were sampled by surface water quality monitoring teams and six shore teams along the Gulf side of Galveston Island and Crystal Beach on Bolivar Peninsula. Four sites were sampled by SWS at ITC. The TCEQ is continuing to assess surface water quality sampling data as preliminary and final laboratory results are received. Four Shoreline Cleanup Assessment Technique (SCAT) teams operated throughout Tucker Bayou and the Ship Channel and one Rapid Assessment Team assisted in SCAT activities. TCEQ had one person on a SCAT team on April 4, 2019 and will have one person on a team today, April 5, 2019.

For April 5 and 6, 2019, EPA will not have an FOSC on the overnight shift at Incident Command; however, one EPA contractor will still be present. An FOSC will resume the overnight shift starting the night of April 7, 2019.

From: Tracy Miller
Sent: Thursday, April 4, 2019 10:43 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 19: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 19

Overnight winds were southerly at 5-10 mph. Winds are expected to be out of the southeast today around 10mph, shifting more SSW with decreasing speeds by midday.

Benzene measurements at stationary monitors remain in the low ppb range. There was one period of elevated benzene measured at HRM #3 Haden Rd between 3:00pm and 6:00pm yesterday with a peak concentration of 14.7 ppb. All downwind monitors are showing benzene concentrations less than 1.0 ppb this morning.

Yesterday and overnight, the GC van sampled at the DeZavalla Rd location in Channelview. Low levels of xylene and toluene (8-17 ppb) were intermittently detected, but no detectable levels of benzene were measured.

PM2.5 measurements across Houston this morning are in the good to moderate range (based on EPA's AQI scale).

As of the April 4, 2019 7:00 am tank volume report, the volume of liquid wastes from the event are being accumulated in Tanks 50-2 (39,505 bbl), 60-1 (47,205 bbl), 80-33 (37,851 bbl), and 80-34 (61,469 bbl).

At 11:35 pm, an entry team entered the tank farm to open the manway on Tank 80-14 and to put a vacuum hose into the Tank 80-15 manway to remove the remaining liquids. The tank farm continues to receive foam.

As of April 3, 2019, a total of 183,629 bbl of contaminated water has been collected. Of this, 80,920 bbl were collected by on-water operations and 102,709 bbl from the tank farm area.

On April 3, 2019, at approximately 3:00 pm, the flushing of Tucker Bayou began and ended at approximately 7:00 pm. CTEH conducted air monitoring during the flushing operations. There were no detected readings exceeding action levels set by Unified Command during the flushing activities. The flushing water is being applied from Dow's firewater monitor (photo attached). The source water is from the Houston Ship Channel.

The Operations Section of Unified Command began planning and preparing early April 3, 2019 for a potential overnight heavy rainfall. Vac trucks were stationed to assist with water recovery. During the planning, it was reiterated to ITC that outfalls 003 and 002 were not to discharge and the WWTP was not authorized to accept the fire-generated waste. ITC indicated to Unified Command that the facility will need to utilize their stormwater outfalls from the non-impacted areas. The facility will sample any stormwater prior to release, as the outfalls are needed.

The EPA ASPECT aircraft did not conduct flyover operations and the TAGA vehicle did not conduct air monitoring in the area on April 3, 2019.

Four Shoreline Cleanup and Assessment Technique (SCAT) teams operated throughout Tucker Bayou and the Ship Channel and one Rapid Assessment Team (RAT) assisted in SCAT. SCAT teams utilized UAV to identify additional areas that may have been impacted and plan to identify and mark those areas to report to Operations to address. On April 3, 2019, TCEQ participated in a SCAT planning meeting; however, TCEQ did not have any personnel on a team. TCEQ will have one person on a team today, April 4, 2019.

Teams of TCEQ regional investigators and the TCEQ contractor, SWS, continued to conduct odor surveys and air monitoring throughout the community on April 3, 2019 using handheld instruments and reported no readings exceeding action levels set by Unified Command.

During the day on April 3, 2019, water samples were collected at seventeen sites by three TCEQ regional teams. Sampling areas were east of Channelview, as far as the eastern border of Galveston Bay and as far south as Kemah. Eleven sites were sampled by SWQM teams and six by the shore teams along the Gulf side of Galveston Island and Crystal Beach on Bolivar peninsula. Three sites were sampled by the TCEQ contractor SWS at ITC. TCEQ Water Quality Planning Division is continuing to assess surface water quality sampling data as preliminary and final laboratory results are received.

Starting Friday April 5, 2019, EPA will no longer have an FOSC on the overnight shift at Incident Command; however, one EPA contractor will still be present.

From: Jonathan Walling
Sent: Wednesday, April 3, 2019 11:59 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 18: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 18

Overnight winds varied from east to southeast at <5 mph. Winds are expected to be out of the southeast today with speeds increasing to 10-15 mph by midday.

Benzene measurements at stationary monitors continue to remain in the low ppb range with the highest benzene level measured downwind being a 5.0 ppb at Galena Park during the 11:00pm hour.

Yesterday, the TCEQ monitoring van began sampling at 1809 Center Street. No detectable levels of benzene were measured at this location. At 1:00pm, the van was dispatched to Crosby to assess the plume from the KMCO chemical plant fire. The van set up downwind (wind out of the NE) of the fire location at 14530 FM 2100 in Crosby and sampled from 2:20pm to 8:15pm. No detectable levels of any target compounds were measured. At 8:30pm the van returned to monitor downwind of the ITC incident. Only two sample runs from midnight to 6:00am produced detectable levels of benzene (10ppb @ 12:45am and 25 ppb @ 1:05am).

PM2.5 measurements on the north side of Houston this morning are on the low end of the "moderate-good" range, while measurements on the south side are in the "good" range (based on EPA's AQI scale).

The tank farm continues to receive foam. As of 7:00 am April 3, 2019, transfer operations at Tanks 80-14 and 80-15 were reported to be complete. Transfer of the contents in Tank 100-28 to Tank 100-15 was completed at 2:20 am April 3, 2019. At approximately 7:00 am April 3, 2019, Unified Command provided an update on the volume of liquid wastes from the event being accumulated in Tanks 50-2 (39,505 bbl), 60-1 (47,205 bbl), 80-33 (35,736 bbl), and 80-34 (59,221 bbl).

Liquids in Tank 100-28 were offloaded to an ocean-going barge to allow room for more storage of product on site. The barge contains approximately 49,000 bbl of contaminated water. A second 30,000-bbl barge is on standby in the San Jacinto River.

As of April 2, 2019, a total of 169,942 bbl of contaminated water has been collected. Of this, 72,703 bbl came from on-water operations and 97,239 bbl from the tank farm area.

Unified Command provided maps showing where waste is currently being stored throughout the facility and at the KSOLV dock.

The EPA ASPECT aircraft began conducting flyover operations at 9:30 am April 2, 2019 at the confluence, downwind in the community, and above the spill site. The TAGA bus was dispatched at 8:30 am April 2, 2019 to collect air quality data north of the facility in the Channelview area.

Teams of TCEQ regional investigators and the TCEQ contractor, SWS, continued to conduct odor surveys and air monitoring throughout the community on April 2, 2019, using handheld instruments and reported no readings exceeding action levels set by the Unified Command.

During the day on April 2, 2019, water samples were collected at seventeen sites by three TCEQ regional teams. Four sites were sampled by the TCEQ contractor SWS at ITC.

The flushing plan for Tucker Bayou was approved by Unified Command and flushing operations will begin on the morning of April 3, 2019.

On April 2, 2019, Unified Command approved ITC's plan to discharge non-contact stormwater from the base oil tank farm adjacent to Tucker Bayou through outfall 005.

Harris County has contracted with Trinity Environmental and Intertek to conduct soil sampling on Tidal Road and parts of Independence Parkway.

At 6:39 am April 3, 2019, the Federal On-Scene Coordinator sent an email to Unified Command and support advocating a reduction in the number of personnel involved in the command function of the response, including re-evaluating command oversight of night operations.

From: Jonathan Walling
Sent: Tuesday, April 2, 2019 12:54 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 17: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 17

Overnight winds were north-northeast <5 mph, turning easterly after midnight. Winds should remain light (5-10 mph) and continue shifting back to the southeast throughout the day.

Benzene measurements at stationary monitors continue to remain in the low ppb range with the highest benzene level measured downwind being a 5.2 ppb at Cesar Chavez during the 4:00am hour.

Yesterday, the TCEQ monitoring van began sampling at 1809 Center Street. Intermittent benzene levels were measured throughout the day with a high reading of 46.9 ppb. The van relocated to Magnolia Ln. around

2:00pm. Measured benzene levels averaged 15 ppb, with a max of 45.6 ppb. After midnight, benzene levels at the Magnolia site decreased to the 5 – 12 ppb range. The van relocated back to 1809 Center Street around 2:45am due to detecting odors in the area. From 3:00am to 5:00am, measured benzene levels ranged from 6 ppb to 41 ppb. No detectable levels of benzene were measured at this location after 5:00am.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale). An ozone action day will be in effect for the Houston area based on weather conditions being conducive to ozone formation.

On April 1, 2019, the facility began transferring hazardous waste from Tank 100-31 to Tank 100-15 to reduce the volume of Tank 100-31. Piping was laid to begin pumping the contents of Tank 80-10 on April 2, 2019. As of April 1, 2019, Tank 80-14 had been flushed with foam and water and emptied. At approximately 7:00 am April 2, 2019, Unified Command provided an update on the volume of liquid wastes from the event being accumulated in Tanks 50-2 (31,185 bbl), 60-1 (47,205 bbl), 80-33 (34,044 bbl), and 80-34 (57,692 bbl).

The tank farm continues to receive foam. The secondary containment structure has been pumped out and is being maintained to prevent the accumulation of liquids.

To manage rain accumulation, the ditches are being cleaned as needed by vacuum trucks. Efforts on April 1, 2019, focused on a pocket near the cofferdam on Tidal Rd. A vacuum truck unloading area and frac tank manifold is being constructed. Four 500-bbl frac tanks will be connected and will allow four vacuum trucks to unload at the same time.

Flushing of Tucker Bayou on the south side of Tidal Road near the cofferdam and Clean Harbors began on April 1, 2019, using water from Clean Harbors. Eleven 130-bbl vacuum trucks and six 70-bbl vacuum trucks were bringing recovered oily water to tanks 80-33 and 100-31. A device called an oil mat was tested April 1, 2019, in Tucker Bayou and was deemed a successful method of recovering floating hydrocarbons.

Two 30,000-bbl barges are being utilized on the Houston Ship Channel to help store the hazardous material being skimmed from the on-water operations. ITC has staged a 57,000-bbl barge at ITC Dock 8 to receive waste from tanks 80-18, 80-33, 100-28, 100-31, and 100-15 for disposal. At 7:00 am April 2, 2019, Unified Command reported that pumping of the contents of Tank 100-28 into the barge was complete as of 4:50 am April 2, 2019.

As of April 1, 2019, approximately 61,807 bbl of contaminated material had been recovered by the on-water operations team. A total of approximately 92,222 bbl of contaminated material has been removed from the tank farm and ditches. A total of 128 cubic yards of contaminated material (PPE, boom, and absorbent pads) has been collected.

The EPA TAGA vehicle monitored downwind of the site on April 1, 2019. EPA also conducted aerial air monitoring with the ASPECT aircraft on April 1, 2019. No exceedances were reported from these surveys. Both vehicles are scheduled to survey the area on April 2, 2019.

Teams from TCEQ contractor, SWS, conducted odor surveys and air monitoring throughout the community on April 1, 2019, using handheld instruments and reported no readings of benzene exceeding action levels set by the Unified Command.

Two Shoreline Cleanup and Assessment Technique (SCAT) teams and one Rapid Assessment Team (RAT) were deployed during the day April 1, 2019. SCAT observations confirmed observations from aerial

reconnaissance. Areas impacted with floating product included Jacintoport, Old River, Peggy Island and Boscoe. During the day April 1, 2019, water samples were collected at five sites by TCEQ. Water samples from six shoreline sites were collected by a second team. Four sampling teams will conduct water sampling on April 2, 2019. The ITC team will be sampling with the TCEQ contractor, SWS, at ITC. TCEQ Surface Water Quality teams will be sampling east of Channelview, as far as the eastern border of Galveston Bay and as far south as Kemah. An additional shore sampling team will be conducting sampling on the Gulf side of Galveston Island and Crystal Beach on Bolivar peninsula. No RAT is scheduled for today.

ITC requested that they be allowed to discharge non-contact stormwater from the base oil tank farm adjacent to Tucker Bayou through outfall 005. This stormwater would be non-contact stormwater from operations within the facility (outside of the impacted fire areas). The release amounts/flow rates would be controlled, monitored and coordinated with EPA/TCEQ to ensure the recovery efforts on Tucker Bayou are not impacted. The TCEQ has not approved any discharges.

From: Jonathan Walling
Sent: Monday, April 1, 2019 10:34 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 16: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 16

Overnight winds were north-northeast <5 mph. Winds will remain north-northeast 5-10 throughout the day.

Benzene measurements from downwind monitors continue to remain in the low ppb range with no significant benzene spikes recorded.

Yesterday, the TCEQ monitoring van began sampling at the corner of Underwood and Spencer Hwy. No detectable levels of benzene were recorded The van relocated to Magnolia Ln. around noon where periodic benzene spikes were consistently measured throughout the afternoon with a peak of 242.3 ppb at approximately 3:00pm. Sampling continued at the Magnolia Ln. location with only periodic benzene measurements recorded between 5:00pm and 7:30pm (peak of 117 ppb). At 2:45am, the van relocated to 306 E 1st Street near the Deer Park High School to provide monitoring in an area of reported odors. A benzene peak of 127 ppb was measured at 3:30am, before decreasing to 6 ppb by 5:00am. Based on shifting winds, the van relocated to 1809 Center St at 5:30am. Peak benzene measured at this location was 53.6 ppb.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

As of 7:00 am April 1, 2019, transfer operations at Tanks 80-2, 80-3, 80-7, 80-9, 80-10, 80-12, 80-13, 80-14, and 80-15 were reported to be complete, with approximately 2,207 bbl remaining in Tank 80-10. As of 7:54 am on April 1, 2019, pumping was reported to be active at Tank 80-11 (containing 21,313 bbl).

At approximately 7:00 am April 1, 2019, Unified Command provided an update on the volume of liquid wastes from the event being accumulated in Tanks 50-2 (31,185 bbl), 60-1 (47,205 bbl), 80-33 (29,700 bbl), and 80-34 (46,539 bbl).

The ERC reported that a total of 56,162 bbl of contaminated water have been recovered from the water and 40,385 bbl have been recovered from the tank farm. Approximately 128 cubic yards of solid waste have been recovered.

An additional 57,000-barrel liquid waste collection barge arrived at 8:15 pm March 31, 2019. This barge will be in addition to the two 30,000-barrel barges in use.

Odors and Benzene odors and detections continued to trigger sporadic shelter-in-place notifications at neighboring industrial facilities. At 1:31 am March 31, 2019, LyondellBasell gave the all clear to its shelter-in-place. Ineos lifted its shelter-in-place at 2:00 am March 31, 2019. Oxyvinyl VCM lifted its shelter-in-place at 2:55 am March 31, 2019 and Oxyvinyl Battleground lifted its shelter-in-place at 3:08 am March 31, 2019. At 10:08 am March 31, 2019, Geo Specialty Chemicals lifted its shelter-in-place. Nouryon Polymer Chemicals Battleground and Geo Specialty Chemicals announced shelter-in-place at approximately 1:40 pm March 31, 2019. Geo Specialty Chemicals cleared its shelter-in-place at approximately 4:00 pm March 31, 2019. The Nouryon facility cleared its shelter-in-place at approximately 5:00 pm March 31, 2019.

The EPA TAGA vehicle monitored downwind of the site on March 31, 2019. EPA also conducted aerial air monitoring with the ASPECT aircraft until 10:00 am March 31, 2019. Between 9:30 am and 9:34 am, the TAGA vehicle recorded readings of 1 ppm at the following intersections: East Blvd and Hwy 225, East Blvd and 13th Street, and East Blvd and Independence Parkway. The ASPECT plane had no detections.

Due to choppy conditions, water operations were not conducted. Air monitoring resources affiliated with those operations were re-directed to land.

Teams of TCEQ regional investigators and TCEQ contractor, SWS, conducted odor surveys and air monitoring on March 31, 2019 using handheld instruments throughout the community. The TCEQ air teams reported no readings of benzene exceeding action levels set by the Unified Command.

Four sampling teams will conduct water sampling on April 1, 2019. The ITC team will be sampling with the TCEQ contractor, SWS, at ITC. Regional SWQM teams will be sampling east of Channelview as far as the eastern border of Galveston Bay and as far south as Kemah. An additional shore sampling team will be conducting sampling on the Gulf side of Galveston Island and Crystal Beach on the Bolivar peninsula.

No TCEQ resources are available for the SCAT teams scheduled for April 1, 2019. No RAT is scheduled for today.

The Harris County Fire Marshal's Office will begin its fire investigation on April 2, 2019. They will control access to the tank farm but operations to remove product and waste from the tank farm and secondary containment area will continue.

From: Tracy Miller
Sent: Sunday, March 31, 2019 12:51 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 15: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 15

Overnight winds were north 10-15 mph. Winds will remain north 10-15 with gusts to 25+mph throughout the day, then turn northeast decreasing to 5-10 mph. There is a small craft advisory for the bay for March 31, 2019.

Overnight and early morning, benzene measurements from downwind monitors remained in the low ppb range with no significant benzene spikes recorded.

Late yesterday afternoon, due to the northerly winds, the TCEQ monitoring vans relocated south of the ITC facility on Magnolia Lane. No detectable levels of benzene were recorded until 10:20pm, when the GC measured 28.0 ppb. Periodic rain hampered consistent sampling; however, elevated concentrations of benzene were again recorded in the overnight hours. From 1:00 am to 3:00 am, several benzene spikes were measured from 43.0 ppb to 195.9 ppb at the Magnolia Ln site. Around 4:00 am the vans relocated further south to the corner of Underwood and Spencer Hwy. Only one benzene measurement above the detection limit was recorded at this site (10.0 ppb at 5:00am).

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

The City of Pasadena activated its EOC at 1:17 pm March 30, 2019 due to a shift in wind direction.

As of 7:00 am March 31, 2019, transfer operations at Tanks 80-2 and 80-3 were reported to be complete. Liquids in Tank 80-11 were reported as being removed at 749 bbl/hour with 28,581 bbl remaining to be transferred.

As of 7:00 am March 31, 2019, the accumulation of the liquid wastes from the event are being accumulated/stored on-site in Tanks 60-1 (47,205 bbl), 80-34 (35,205 bbl), and 50-2 (31,185 bbl), and Tank 80-33 (21,264).

The EPA TAGA vehicle monitored downwind of the site in the Deer Park and La Porte area until 4:30 pm on March 30, 2019. The TAGA vehicle did not detect any readings above the action levels. EPA's ASPECT did not fly due to cloud coverage. The TAGA vehicle began monitoring at approximately 8:30 am March 31, 2019.

Additional information was obtained about the March 30, 2019, shelter-in-place alert for the VOPAK Terminals facility. The shelter-in-place was lifted at approximately 11:40 am March 30, 2019. Harris County Pollution Control Services provided additional information on facilities east and south of ITC that had also issued facility shelter-in-place notices. These facilities included Oxy Vinyls Battleground, VCM plants, Lyondell Basell, INEOS, Geo Specialty Chemicals, Nouryon Polymer Chemicals Battleground, and Braskem. The SIP notices were subsequently lifted for Oxy Vinyls Battleground, VCM, and Lyondell Basell. As of this time, no information is available for the status at the other facilities listed.

Teams of TCEQ regional investigators and the TCEQ's contractor, SWS, conducted odor surveys and air monitoring using handheld instruments throughout the community. The TCEQ contractor recorded a 34.55 ppm benzene reading at 4:44 pm March 30, 2019, at 2911 N. Alexander Drive in Baytown. The Region requested the TCEQ contractor to return to the location to confirm the reading. Upon return to the location at 4:57 pm March 30, 2019, the reading was 0 ppm. No other air monitoring readings above the action levels identified by Unified Command were detected during the air monitoring surveys.

There were two air monitoring strike teams (one each for land and water) in operation during the day until 6:00 pm March 30, 2019. No elevated readings were reported during this time. One land strike team was

deployed at 7:00 pm March 30, 2019 and reported benzene above action levels at Independence Parkway at Andrews Logistics, just north of a Love's gas station. Benzene was measured at 1.25 ppm and total VOCs were measured at 1.7 ppm.

Two regional surface water monitoring teams and the on-shore team will remain on standby but will not deploy until conditions are safe. TCEQ's oversight of ITC water sampling will continue.

From: Jonathan Walling
Sent: Saturday, March 30, 2019 12:00 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 14: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 14

Overnight winds were south-southeast 5-10 mph. Winds will shift north in the late afternoon today and increase to 15-20 mph with an approaching cold front.

The Channelview monitor continues to detect elevated benzene concentrations in short durations with measurements quickly returning to low ppb levels. The three hours beginning at 10:00pm measured a 53.7, 129.8, and 16.8 ppb, respectively. The 1:00am reading was back down to 0.51 ppb. Benzene levels were in the low ppb range at all other downwind monitors. AECOM restored autoGC operations at Lynchburg yesterday with measurements beginning again at 11:00am.

The TCEQ monitoring vans continued to monitor in the Lakeside Park Estates neighborhood along De Zavalla Rd. Overnight readings were consistent with the benzene spikes at the Channelview monitor. During the 10:00pm hour, benzene measurements began to increase with a peak of 39.0 ppb. The first run of the 11:00pm hour recorded a peak benzene level of 655.35 ppb along with a 1,3-butadiene spike of 66.2 ppb. A TVA reading at this time measured 20 ppm total VOC. After the midnight shift change, TVA measurements at the DeZavalla location showed only background levels of VOC. The vans repositioned 0.3 miles north on Lakeside Dr. Readings at this location were at or below instrument detection limits with a maximum benzene reading of 6.0 ppb.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

As of 3:00 am March 30, 2019, transfer operations at Tanks 80-7, 80-9, 80-10, 80-12, 80-13, 80-14, and 80-15 were reported to be complete. Liquids in Tank 80-11 were reported as being removed at 802 bbl/hour and stored in Tank 80-33.

At 12:10 am March 30, 2019, ITC started pumping from secondary containment to the wastewater treatment feed tanks 80-34 and 60-1. TCEQ re-emphasized that ITC is to use the tanks for storage only and must dispose of the material as hazardous waste.

At 11:15 pm March 29, 2019, CTEH measured benzene levels of 0.5 ppm to 2.5 ppm on Jacintoport Blvd. ITC issued an E-Notification to the industrial area with a recommended shelter-in-place. At 1:28 am March 30, 2019, VOPAK Terminals issued a shelter-in-place for their facility in response to the E-notification. No information on the status of the VOPAK shelter-in-place was reported as of 7:00 am.

The EPA TAGA vehicle monitored downwind of the site and had three (3) benzene readings above action levels at approximately 2:30 pm March 29, 2019, in the vicinity of Jacintoport Blvd and Sheldon Rd. The hits were 0.75 ppm, 1.2 ppm, and 1.6 ppm. EPA START contractors had one monitoring location on the water above the action level in the Jacintoport area at 2.0 ppm. EPA did not perform aerial air monitoring (ASPECT) due to low cloud cover interfering with monitoring equipment. It will not fly on March 30, 2019 and potentially not on March 31, 2019 for the same reason.

Teams of TCEQ regional investigators and TCEQ's contractor, SWS, conducted odor surveys and air monitoring using handheld instruments throughout the community. No air monitoring readings above the action levels identified by Unified Command were detected during the air monitoring surveys. No odors related to the incident were detected during the surveys.

On March 29, 2019, the TCEQ regional water section collected water samples at 17 locations. An additional four sites were sampled by an ITC contractor. Water section personnel participated on two Rapid Assessment Teams.

TCEQ discussed its comments on Revision 6 of the Waste Management Plan with the Unified Command Environmental Group.

TCEQ submitted its comments as reviewed by EPA on the Water/Foam Sampling Plan to CTEH.

Harris County Office of Emergency Management demobilized the Harris County EOC as of 7:00 pm March 29, 2019.

TCEQ staff will continue to conduct surface water quality sampling on March 30, 2019.

From: Jonathan Walling
Sent: Friday, March 29, 2019 1:44 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 13: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 13

Overnight winds were southeasterly 5-10 mph. Winds will remain southeasterly today with speeds increasing to 10-15 mph in the afternoon.

Stationary monitors continue to detect elevated benzene concentrations in short durations with measurements quickly returning to low ppb levels. The Channelview monitor recorded a 129.98 ppb at 3:00 am. Measured concentrations the next hour were back down in the 3-4 pbb range. Benzene levels were in the low ppb range at all other downwind monitors. The Lynchburg AutoGC is experiencing technical problems which are being addressed by the operator, AECOM, to restore data transmittal from the site.

Yesterday and last night, the TCEQ monitoring van conducted monitoring in the Lakeside Park Estates neighborhood along De Zavalla Rd. Periodic benzene spikes ranging from 12 – 27 ppb were measured in this

area overnight. During the 5:00 am hour, multiple GC runs measured benzene concentrations between 75 ppb and 125 ppb.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

USCG indicated the Houston Ship Channel is open during daylight hours to limited traffic. The San Jacinto River is open to two-way traffic without restriction. The Old River is closed to traffic.

TCEQ, EPA, and ITC representatives conducted an overflight of the impacted areas on March 28, 2019. Oil was observed to have migrated into Carpenters Bayou where previously it had not been observed. Recovery activities are being conducted.

ITC proposed to Unified Command to temporarily remove booms from the mouth of Tucker Bayou to improve flow out of the heavily contaminated bayou towards the channel. This action is to allow residual product to flow into the confluence of the bayou and the Houston Ship Channel to be recovered by skimming vessels.

The contents of Tank 80-13 have been pumped into Tank 80-18. As of 7:00 am March 29, 2019, Tank 80-13 was reported as empty. At 8:27 pm March 28, 2019, ITC contractors opened sump lines from Tanks 80-14 and 80-15 to facilitate flow into the secondary containment and the containment area, then to oil/water separator, then to the wastewater plant storage tanks. The same process was used for Tanks 80-2 and 80-3 earlier in the day.

At 10:00 pm March 28, 2019, the Incident Commander for ITC approached Unified Command with concerns that the secondary containment was close to overflowing due to draining operations and foaming operations on tanks 80-2, 80-3, 80-14, and 80-15. ITC's stated concerns were that waste levels within the secondary containment were rising faster than could be removed. They are currently placing the waste into tank 60-1 rather than allowing further release into the ditch, Tucker Bayou, and/or the channel.

Outfall 003 developed a leak due to a seal failure, releasing water and foam into the ditch for approximately 30 minutes. The leak was repaired and the discharge was stopped. There are three vacuum trucks removing material from the ditch and five vacuum trucks are removing material from Tucker Bayou. Material recovered from both sources is being taken to Tank 100-31.

As of 8:30 pm, approximately 36,611 bbls. of material were recovered from on-water operations. As of 6:00 pm March 28, 2019, approximately 40,385 bbls material and 128 cubic yards of contaminated solids (personal protective equipment, booms, and absorbent pads) had been recovered from the tank farm.

Benzene levels above 1 ppm were not detected in the community during the overnight handheld monitoring activities. Wind was from the southeast. CTEH reported detecting 1.02 ppm benzene at 16402 Jacintoport Blvd. and the readings were confirmed by the multi-media air monitoring strike team at 12:35 am March 29, 2019. At 12:50 am March 29, 2019, CTEH had benzene readings of 0.8 ppm to 1.02 ppm in the community, at the corner of Sheldon Road and Market St. The multi-media air monitoring strike team responded and had no detections at that location.

ASPECT flew at 9:00 am March 28, 2019, over the tank farm and downwind of the facility. No significant readings were detected readings. EPA has not confirmed if the ASPECT flyover operations will resume next operational shift due to forecasted rain and cloud cover.

The TAGA bus conducted monitoring from approximately 8:30 am to 4:30 pm March 28, 2019 downwind of the facility and did not detect benzene.

At 8:45 am March 28, 2019 TCEQ regional office staff and contractors detected benzene at 1.5 ppm and VOC at 0.7 ppm on the Tidal Rd bridge over Tucker Bayou. CTEH re-monitored the location at 10:38 am March 28, 2019 with no VOC detected and at 11:19 am March 28, 2019, no benzene was detected. At 11:30 March 28, 2019, the TCEQ contractor attempted to take water samples at the Tidal Rd Gate 13 sample location and under the Tidal Rd bridge over Tucker Bayou. Neither location could be sampled due to high levels of benzene. At the Gate 13 location, the contractor stated there was heavy foam and a benzene reading of 13 ppm. At the location under the bridge, the benzene reading was 100 ppm. CTEH monitored at Gate 13 at 11:33 am March 28, 2019 and obtained a reading of 9.5 ppm benzene. CTEH did not send personnel under the bridge to conduct air monitoring.

TCEQ e-mailed updated comments on the water sampling plan to EPA for review and provided responsive information to ITC.

In anticipation of forecasted precipitation on March 29 and 30, 2019, Unified Command discussed plans for managing stormwater at the ITC Deer Park facility. Stormwater from unimpacted areas of ITC will route through normal stormwater conveyances, including Tucker Bayou. Stormwater from the impacted tank farm area will be routed to tanks in the WWTP for storage. The WWTP is not in operation (e.g. receiving influent/producing effluent).

TCEQ staff continued to conduct surface water quality sampling on March 28, 2019.

Teams of TCEQ regional investigators and TCEQ's contractor, SWS, conducted odor surveys and air monitoring using handheld instruments throughout the community. No air monitoring readings above the action levels identified by Unified Command were detected during the air monitoring surveys. No odors were detected during the surveys.

Harris County Office of Emergency Management downgraded the activation level of the Harris County EOC to Level III (Increased Readiness) as of 4:57 pm March 28, 2019.

The Civil Support Team will demobilize the morning of Friday, March 29, 2019. SWS personnel will serve as the TCEQ presence on the Air Monitoring Strike Teams.

TCEQ has been asked to provide a representative to serve on the Incident Command Environmental Unit. This request is under review by regional management.

From: Jonathan Walling
Sent: Thursday, March 28, 2019 11:37 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 12: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 12

Overnight winds were southeasterly < 5mph. Winds are expected to remain southeasterly today with speeds increasing to 10-15 mph with gusts to 20 mph.

Stationary monitors continue to detect elevated benzene concentrations when directly downwind of the ITC facility. Yesterday from 12:00 pm thru 3:00 pm with winds from the ESE, HRM Haden Road monitor measured benzene in the 6-12 ppb range. During the 11:00 pm and 12:00 am hours, with winds more SE, the Channelview monitor measured benzene levels of 12.5 and 7.4 ppb. Periods of elevated readings at these monitors are short in duration, with measurements returning to low ppb levels.

Yesterday, the TCEQ monitoring van conducted monitoring at the corner of Center and X Streets until midday when winds began to shift to the SE. No detectable levels of benzene were measured at this location. The van relocated at noon to the north side of the Ship Channel in the Lakeside Park Estates neighborhood along De Zavalla Rd. Periodic benzene spikes ranging from 7.4 – 17.5 ppb were measured in this area during the afternoon. Overnight, the van remained at the De Zavalla Rd location due to the SE winds. From midnight thru 5:00am, measured benzene concentrations averaged 17 ppb, with a max of 25 ppb.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

ITC has continued to spray foam within the secondary containment area of the tank farm for approximately 20 minutes every 1 to 2 hours.

The USCG has deployed approximately 92,840 feet of boom in several locations.

At 10:47 am March 27, 2019, a TCEQ staff conducting surface water sampling reported a failing boom near Channel Marker 121, which is near the San Jacinto Battleground Monument. Black water and foam were observed on the shoreline in the area. The TCEQ notified the USCG of the boom failure.

The USCG presented a plan to Unified Command to dewater the vessel Texas Responder to provide capacity for recovered organics. The plan was disapproved by both TCEQ and EPA since the re-entry of contaminated waters is prohibited by rule [e.g. CERCLA/Clean Water Act (CWA)]. The entity has been informed that all liquids collected during the surface water skimming activities and placed into collection vessel (barge) must be disposed of in accordance with state and federal regulations.

Pumping operations to remove product from Tanks 80-7, 80-9, 80-10, 80-12, 80-14, and 80-15 were reported as complete as of 8:24 am March 28, 2019.

EPA performed air monitoring with the ASPECT aircraft starting at 8:45 am March 27, 2019 above and downwind of the ITC tank farm with no detections.

Air monitoring by USCG personnel in the area around ITC Dock 4 showed levels of benzene above the industrial action level (0.5 ppm). Air monitoring teams have not detected benzene outside of the areas around the 2nd 80's Tank Farm and ITC Dock 4 during this operational period. At 9:45 am March 27, 2019, TCEQ contractors detected benzene at 2 ppm in the parking lot next to Tidal Road Bridge where it crosses Tucker Bayou. At 1:15 pm March 27, 2019, the contractor re-monitored the same area and detected less than 0.5 ppm benzene in the parking lot, 7 to 9 ppm benzene towards the nearby ditch, and 2 ppm benzene in the ditch.

Two multi-agency air monitoring strike teams were formed for safety in the working areas, one land team and one water team. Due to the potential need for respiratory protection, the National Guard's 6th Civil Support Team (6 CST) will be serving as the TCEQ representative on the strike teams.

The multi-agency strike team was sent to Houston Fuel Oil Terminal Dock 3 at 11:42 pm March 27, 2019 to investigate a complaint about odors. The team observed material on the water and obtained a reading of 0.05 ppm benzene. The initial call came to Unified Command from Kirby Marine stating that a tug in the area had detected odors. No air monitoring was conducted by Kirby Marine.

The strike team (land), CTEH, and TCEQ regional office staff continued monitoring for VOC and benzene in the communities surrounding the ITC site. The TCEQ teams have been stationed to respond to complaints and reports of air quality readings above action levels. There were no community detections for benzene during the current reporting period.

A Natural Resource Trustee representative for the TCEQ visited the site March 27, 2019. The TCEQ, GLO, and TPWD will be conducting a Natural Resource Damage Assessment (NRDA) on state entrusted resources.

A flyover was conducted by ITC contractor, Cardno, to assess the current status of material in Tucker Bayou, Houston Ship Channel, and surrounding areas. TCEQ and GLO staff participated and observed current operations near Tucker Bayou.

The USCG has recovered approximately 24,364 barrels of material from on-water operations. Approximately 35,724 barrels of material from the tank farm have been recovered. As of 12:55 am March 28, 2019, cleanup operations have generated approximately 128 cubic yards of solid waste (PPE, debris, and contaminated booms), which is being stored on site at ITC in a roll-off box.

Surface water quality monitoring continues to be conducted in northern Galveston Bay, as well as shoreline sampling on Galveston Island.

From: Jonathan Walling
Sent: Wednesday, March 27, 2019 1:47 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 11: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 11

Overnight winds were north to easterly around 5mph. Winds are expected to be easterly, then shift back southeast by afternoon today.

Overnight, benzene measurements from downwind monitors remained in the low ppb range with one hourly peak of 8.73 ppb during the 8:00 pm hour at the Deer Park #2 monitoring station.

On March 26, 2019, the TCEQ monitoring van conducted measurements throughout the day at the corner of Center and X Streets. Periodic benzene spikes were measured in this area during the late afternoon with a peak of 86 ppb around 9:45pm. Overnight as winds shifted more easterly, the van staff scouted neighborhoods west of the facility surveying for odors that could indicate elevated VOCs. Nothing was

detected as far west as Galena Park. The van returned to the Center and X Street location at 4:00 am on March 27, 2019. No detectable levels of benzene have been measured since that time.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

ITC has continued to spray foam within the secondary containment area of the tank farm every hour for approximately 20 minutes.

USCG has opened the Houston Ship Channel to one-way traffic during daylight hours and the San Jacinto River to two-way traffic during daylight hours. Transport through the Houston Ship Channel and the San Jacinto River is being directed by the Port of Houston Authority (Captain of the Port). Old River to Carpenters Bayou remains closed to all traffic.

ITC contractors discovered two dead fish near ITC's Dock 4 on March 26, 2019 and approximately 12 fish were discovered near Dock 4 on March 25, 2019 but not reported until March 26, 2019. TPWD has been informed of the fish kill. A wildlife observer has been assigned to Dock 4 to document any impact to wildlife, including fish. Contractors will collect dead fish to provide to TPWD.

Foam is continuing to be applied to Tanks 80-2, 80-3, and 80-5 to reduce benzene emissions. Tank 80-7 has been emptied of product and only contains a layer of foam. Tanks 80-10, 80-14, and 80-15 are empty. Tank 80-13 is being pumped at 123 bbl/hr to Tank 80-18. Tank 80-13 contained 51,671 bbl of liquid as of 7:00 am March 27, 2019.

CTEH continues to provide hourly updates to the Unified Command from its air monitoring operations. CTEH has reported detections of benzene above action levels in the industrial area around the facility during this reporting period. EPA START contractors and TCEQ air monitoring teams have reported no detections of benzene or VOCs above action levels in the community, with the exception of one unverified reading.

Teams of TCEQ regional investigators and TCEQ's contractor, SWS, conducted odor surveys and air monitoring using handheld instruments throughout the community. At approximately 8:57 pm to 9:02 pm on March 26, 2019, SWS detected a benzene reading of 1.00 ppm at a north-south utility right of way intersecting 2168 E. Pasadena Boulevard. In addition, a sweet paint odor was also detected. Between 9:31 to 9:41 pm on March 26, 2019, SWS detected a benzene reading of 0.50 ppm at 2886 Luella Ave., and a very slight sweet paint odor was also detected. These readings were reported to Unified Command. CTEH was promptly dispatched to conduct monitoring in the same area and had no detections.

No other air monitoring readings above the action levels identified by Unified Command were detected during the air monitoring surveys. Other odors detected during the surveys appeared to be unrelated (e.g. garbage odor).

Contractor teams are currently using one skimmer and two vacuum trucks to recover liquids from Tucker Bayou for transfer to Tank 80-18. Contractor USA Environmental is using six vacuum trucks to recover liquids from the ditches surrounding the 2nd 80's tank farm to pump into Tank 100-28.

Two flyovers were conducted March 26, 2019. USCG/NOAA performed a flyover from 11:30 am to 01:30 pm to assess shoreline impacts. The flyover noted several pockets of material that had not been addressed by USCG or ITC, including the San Jacinto Battleground State Historic Site and Old River Oxbow. USCG was made aware of these areas. Approximately 56,200 feet of boom and 2,640 feet of ocean boom has been deployed as of 1:00 pm March 26, 2019 in the Houston Ship Channel and Tucker Bayou. Harris County Sherriff's Office

also conducted a flyover early afternoon (~ 2 pm) over the tank farm and Tucker Bayou and Channel confluence. Product was observed on Tucker Bayou. TCEQ staff participated in flights conducted by USCG and the Sheriff's Office.

ITC is discharging from the impacted tank battery through Outfall 003 (stormwater outfall). The discharge goes to the stormwater ditches; which are currently blocked to avoid discharge into the Tucker Bayou. As noted above, liquids in the stormwater ditch are being recovered and placed in Tank 100-28. According to ITC, the facility has not been discharging through Outfall 002 since March 13, 2019, when, as part of standard operations to better manage chemical oxygen demand (COD), the feed tanks (Tanks 60-1 and 80-34) were shifted to re-circulating mode. The tanks lost power on the evening of March 17, 2019 and power has not been restored. With loss of power, there is no flow to the next treatment units within the wastewater treatment plant (WWTP). ITC is supplying the microorganisms in the WWTP responsible for treatment with nutrients to maintain stability of the system. Information regarding the collection system and flow toward the plant has been requested overnight and the information is pending.

ITC personnel were reminded that approval from the TCEQ must be obtained prior to discharging wastewater from Outfall 002.

ITC provided TCEQ a copy of its Emergency Response Plan and Facility Response Plan on March 26, 2019. The Surface Water Sampling Plan for the event was provided for review. EPA has provided initial comments; TCEQ comments will be provided to ITC today.

Surface water quality monitoring continues to be conducted in northern Galveston Bay, as well as shoreline sampling on Galveston Island.

From: Jonathan Walling
Sent: Tuesday, March 26, 2019 12:42 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 10: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 10

Overnight winds were out of the north at <5mph. Winds are expected to remain northeasterly 5-10 mph throughout the day, then turn easterly by Wednesday.

Overnight, benzene measurements from the Deer Park #2 monitoring station, directly downwind of the ITC facility were in the 1-5 ppb range.

On March 25, 2019, the TCEQ monitoring van conducted measurements in Baytown off Brownwood Drive until late afternoon. Periodic low level measurements of benzene were measured in this area. The van relocated south of the ITC facility at the corner of Underwood Rd. and Spencer Hwy. due to winds shifting to the north. No detectable levels of benzene have been measured in this area. Overnight the van stayed south of Hwy. 225, relocating several times in neighborhoods along X Street, between Center St. and Independence Parkway, in an attempt to identify VOC plumes associated with detected odors. The highest detected benzene in this area was in the 9 ppb range. At 5:30 am this morning, the van relocated to the corner of Center Street

and X Street due to strong odors coming across neighborhoods in that area. Benzene measurements have ranged from 6 – 15 ppb.

PM2.5 measurements across Houston this morning remain in the "good" range (based on EPA's AQI scale).

ITC has continued to spray foam within the secondary containment area of the tank farm every hour for approximately 10 to 25 minutes.

CTEH reported that as of March 25, 2019, it has deployed 100 hand-held air monitoring units. TCEQ contractors detected 13 ppm benzene at 1:30 pm March 25, 2019 immediately west of the tank farm at Tidal Road and Tucker Bayou Bridge. The information was reported to Unified Command.

EPA reported that the ASPECT plane flew south of the incident area on March 25, 2019 and collected six data points as of 2:54 pm March 25, 2019 with no detection.

The EPA START contractor had one team in the field overnight March 25 - 26, 2019 conducting air monitoring downwind of ITC in Deer Park and Pasadena. The contractor reported no detections of benzene or VOCs.

An entry team was used to open valves on Tanks 80-10 and 80-14. This will enable ITC to pump the contents from the bottom of the tanks into Tank 80-18.

The contents of Tanks 80-7 and 80-14 are being transferred to Tank 80-18 with a combined flow rate of approximately 1,000 bbl per hour. As of 3:00 am March 26, 2019, approximately 4,461 bbl remain in Tank 80-7, 260 bbl in Tank 80-14, and 48,985 bbl in Tank 80-18.

USCG has deployed 46,270 feet of boom as of 11:00 pm March 25, 2019. USCG has requested an additional 7,200 feet of boom. As of 11:00 pm March 25, 2019, there is a reserve of 28,600 feet of boom.

USCG will be opening the San Jacinto River for two-way traffic during daylight hours starting today, March 26, 2019. Access to the affected area will be restricted with booms.

During the afternoon on March 25, 2019, ITC pumped liquids from ditches surrounding the facility leading to Tucker Bayou using vacuum trucks. The vacuum trucks unloaded the liquid into a frac tank which then pumped the liquid into Tank 100-28. Five vacuum trucks were being utilized for this operation. Tucker Bayou is being remediated using skimmers and the material is being pumped into vacuum trucks. The collected material is being pumped into Tank 100-28. Six vacuum trucks are dedicated to the Tucker Bayou operation.

TCEQ provided input to Unified Command on comments on March 25, 2019 on a draft Waste Management Plan prepared by CTEH for ITC.

Teams of TCEQ regional investigators and contractor NRC conducted odor surveys and air monitoring using handheld instruments throughout the community. Periodic detection of VOCs at background levels, with no benzene detected. Odors (e.g., sulfur/exhaust) unrelated to the incident were detected.

TCEQ regional investigators and TCEQ's contractor, SWS, conducted water quality sampling activities from 9:40 am to 2:25 pm on March 25, 2019. Water samples were collected on Tucker Bayou, upstream of Outfall 002 and on the west shoreline of Tucker Bayou, under the Tidal Road bridge.

Surface water quality monitoring continues to be conducted in northern Galveston Bay, as well as shoreline sampling on Galveston Island.

From: Jonathan Walling
Sent: Monday, March 25, 2019 10:46 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 9: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 9

Overnight winds were out of the southeast around 10 mph, shifting to the southwest-west at 5-10 mph around 3:00 am. Winds are expected to be light and westerly throughout the day, then turn northerly by evening.

Overnight, benzene measurements at downwind monitoring stations (Lynchburg Ferry, Channelview, and HRM Haden Road) remained in the low ppb range. A benzene spike of 176.1 ppb was recorded at Lynchburg Ferry during the 2:00 am hour when winds shifted from southeast to southwest. Readings during 3:00 am and 4:00 am showed concentrations decreasing to 33 ppb, then 5 ppb.

On March 24, 2019, TCEQ monitoring vans conducted measurements along Jacintoport Blvd. until approximately 1:30 pm. The vans periodically measured benzene in this area with highs in the 80 ppb range. At 1:30 pm the vans relocated to the corner of DeZavalla Rd. and Lakeside Dr. in the Lakeside Park Estates area. Daytime measurements in this area were low. Overnight benzene concentrations in this area averaged 28 ppb, with a max value of 62 ppb. At 3:30 am on March 25, 2019, the vans relocated to Brownwood Dr. in Baytown due to winds shifting from the southwest to west. No detectable levels of benzene have been measured in this area.

PM2.5 measurements across Houston this morning are in the "good" range (based on EPA's AQI scale).

ITC is maintaining two feet of foam within the secondary containment to minimize emissions and reduce the risk of reignition.

Unified Command directed that entities conducting air monitoring are to report exceedances of action levels to Unified Command. An Air Sampling Plan developed by CTEH was submitted to Unified Command on March 23, 2019, that define applicable action levels for measured benzene concentrations. A portal is being set up for Unified Command to be able to access the action level alerts sent by the monitoring entities. The EPA did not conduct ASPECT monitoring Sunday, March 24, 2019, due to low cloud cover.

In the work area around the site, 13 readings of butadiene were detected by CTEH at concentrations between 0.08 and 1.35 ppm as of approximately 9:15 pm March 24, 2019. Butadiene in these concentrations will be odorous, but these readings are below the Air Monitoring Comparison Values.
News outlets reported that as of 10:00 pm March 24, 2019, all area schools closed due to the incident will resume regular classes on Monday March 25, 2019. The Baytown Office of Emergency Management decided to keep Baytown parks closed.

ITC is using infrared cameras to see vapors coming off tanks and to determine how much material remains in each tank. ITC's contractor, The Response Group is updating this information every 4 hours to show the changes in tank levels.

Tanks 80-14, 80-07, and 80-11 are continuing to be pumped down to other tanks on-site unaffected by this incident.

Tank 100-28 has received approximately 33,912 bbl of firewater mixture from Tucker Bayou, the ditch, and secondary containment as of 7:00 am March 25, 2019.

Standing liquids have been removed from the east (higher) side of the containment area. The tank farm was built at a slope, so liquids still remain in low points within the secondary containment.

Discharge from the site is being contained within the boomed areas downstream. Any observations of concern identified by USCG during drone or helicopter flyovers are being reported and assessed. A total of approximately 1,429 bbl of oily water mixture were recovered Saturday, March 23, 2019, from the Houston Ship Channel/Buffalo Bayou by USCG. Tucker Bayou operations continue. As of 12:45 am March 25, 2019, no spills have been observed by USCG on the Houston Ship Channel downstream of Patrick Bayou. USCG worked on recovering a 60 x 60 ft pocket of material that was found in the Peggy Lake area.

ITC has stated that the ditch is almost dry, but vacuum trucks will be used to continue to remove liquids.

ITC has placed two roll-off boxes and vacuum trucks with skimmed water located at the K-Solv facility near its docks to collect waste from ship channel cleanup. K-Solv has requested ITC to remove the waste because they are at capacity for their dock.

From: Jonathan Walling
Sent: Sunday, March 24, 2019 10:46 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 8: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 8

Overnight winds were out of the southeast around 10 mph, shifting to the east at 5 mph around 3:00 am. Winds are expected to return southeasterly today and increase to 10 mph after noon.

Overnight, benzene measurements at the Lynchburg Ferry and Channelview stationary monitors remained in the low ppb range. An elevated benzene reading of 13 ppb was measured during the 3:00 am hour at the HRM Haden Road site west of the ITC facility. Subsequent readings from 4:00am-6:00 am decreased to the 5-7 ppb range.

On March 23, 2019, monitoring vans conducted measurements along Jacintoport Blvd. throughout the day. The vans periodically measured benzene in the 10 ppb range. During the 4:00 am hour, the vans collected three subsequent benzene readings of 80, 114, and 90 ppb while positioned along Jacintoport Blvd, 0.3 miles east of Sheldon Rd. Van operators also detected moderate to strong odors characterized as

chemical and VOC-like at this location and noted mild headaches. The vans were then relocated further east along Jacintoport Rd (0.6 miles east of Sheldon Rd) to further assess the plume. The first reading at this location measured benzene in the 15 ppb range.

PM2.5 measurements across Houston this morning are in the "good" range (based on EPA's AQI scale).

US Pump and Fire arrived on site on March 23, 2019 and staged additional foam and firefighting equipment. There were 155 drums and 159 totes of foam staged with 150 additional totes en route to arrive on March 24, 2019. Channel Industries Mutual Aid (CIMA) was released from Unified Command on March 23, 2019, to focus on other events.

As of 3:14 pm on March 23, 2019, operations at Tank 80-007 had resumed, pumping the material (pygas) into Tank 80-018 at a rate of approximately 1,688 barrels per hour. As of 2:40 am on March 24, 2019, approximately 12,600 barrels had been transferred from Tank 80-007 to Tank 80-018. Operations at Tank 80-007 were stopped due to a blockage on the pump at 2:00 am on March 24, 2019. A submersible pump was being used to remove the contents of Tanks 80-002, 80-003, and 80-005. At 4:35 pm on March 23, 2019, pumping of the contents of the secondary containment structure to Tank 100-28 began at a rate of 88 barrels per hour. As of 10:45 pm on March 23, 2019, approximately 1 inch of liquid remained in the secondary containment. ITC contractor, TNT, has staged equipment to pump out the contents of Tanks 80-014 and 80-015 during the day on March 24, 2019 once pumping from Tank 80-007 has been completed. A 2-foot foam blanket is being sprayed on the tank farm for twenty minutes every hour.

High VOC readings were reported in the dock areas where workers are working on remediating these areas. It was determined that workers will be required to use SCBA if working at water level. At 5:30 am on March 24, 2019, Dow activated a shelter-in-place in response to a recorded reading of 7 ppm benzene and 7.62 ppm benzene recorded by the Port of Houston Authority.

At a Unified Command air monitoring meeting conducted at 8:00 am on March 23, 2019, all entities described their air monitoring capabilities and discussed a system to share the information with Unified Command.

EPA reported that the ASPECT plane will conduct a flight at 9:00 am March 24, 2019 and will fly over the tank farm and downwind in the residential areas. The TAGA bus began operating downwind of the tank farm at approximately 8:30 am March 24, 2019. CTEH is continuing to conduct real-time air monitoring for benzene and VOCs in operational areas as well as in the community. EPA has two teams of START contractors conducting air monitoring. TCEQ Houston Region is deploying three teams to conduct air monitoring and perform odor surveys. Since the last report, the TCEQ regional teams have not documented any significant readings of VOC or benzene in their survey areas. TCEQ contractor, NRC, reported two benzene readings above action levels: 0.85 ppm at approximately 9:30 pm on March 23, 2019 at 16396 Jacintoport Blvd and 0.75 ppm at approximately 1:00 am on March 24, 2019 at 946 South Sheldon Road. The Hazmat Group (Houston Fire, Texas National Guard 6th Civil Support Team, Harris County Fire Marshal's Office, Texas Intrastate Fire Mutual Aid System) will deploy four two-person teams in the area to take readings and report levels to Harris County EOC. Two CTEH personnel and one Marine Spill Response Corporation (MSRC) Tech will conduct monitoring on the deck of the oil spill response vessels. Harris County Pollution Control will conduct roving monitoring along Tidal Rd.

The US Coast Guard (USCG) reported that the Houston Ship Channel remains closed due to the foam mixture present in the channel. It will not be reopened before air monitoring confirms safe action levels. The USCG Strike Team arrived on March 23, 2019 to assist with the cleanup of the bayou and ship channel, in an attempt

to open a portion of the ship channel. Unmanned aerial vehicles (UAVs) are being used to conduct visual observations in the channel.

Remediation is being conducted in the drainage ditch which caught fire on March 22, 2109. Approximately 2,000 barrels of foam mixture, fire water and petrochemicals have been removed from Tucker Bayou. A draft Waste Treatment Plan was provided to TCEQ providing for recovered contaminated water to be pumped to wastewater tanks 100-28, 80-18, and other portable containers. According to the plan, these wastewaters would be treated via the on-site WWTP and discharged under the TPDES permit or sent off-site for appropriate disposal, according to the plan. At 4:30 am on March 24, 2019, TCEQ requested additional information on waste storage locations from ITC. ITC was informed that if stored waste is not at a transfer site or a permitted location an alternative location on-site may be needed. ITC has secured two 30,000-barrel barges for disposal purposes.

The Texas Historical Commission provided a map showing the locations of archaeological sites at risk of impact by water operations to TCEQ. The information was forwarded to Unified Command and the USCG by TCEQ.

On March 23, 2019, the Operations section of Unified Command was divided into two branches, land operations and water operations, The area around the incident was divided into five geographical divisions.
On March 23, 2019, USCG overflight reported most of the floating material remained near Tucker Bayou on the north side of the ship channel.
At 8:30 pm on March 23, 2019, EPA delivered an Administrative Order under the Clean Water Act to ITC representatives.
The DECON plan was presented to Unified Command by The Response Group. The EPA requested that the plan be separated into a land decon plan and a vessel decon plan. The vessel decon plan was approved by Unified Command at 11:30 pm on March 23, 2019.

From: Tracy Miller
Sent: Saturday, March 23, 2019 12:00 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 7: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 7

The priorities established by Unified Command during an operations meeting on March 22, 2019 at 7:40 p.m. were to remediate impacted ditches, rebuild the dike wall that collapsed on March 22, 2019 at approximately 12:00 pm, and resume pumping material from Tank 80-007 to Tank 80-018. Vacuum trucks continued to be used to remove contaminants from Tucker Bayou throughout the night; however, no overnight remediation operations were planned for the Houston Ship Channel. The U.S. Coast Guard National Strike Team is being dispatched to supervise remediation efforts pertaining to the ship channel, and is expected to arrive Saturday afternoon, March 23, 2019.

ITC reported that the dirt placed in the drainage ditch as a temporary berm was ineffective in containing liquids. ITC used a drone equipped with an Infra-Red (IR) camera to assess the area and to determine the volume of product in Tank 80-007. It was determined that Tank 80-007 had approximately 20,000 barrels of

product (pygas) remaining. ITC has stated that pumping of the contents of Tank 80-007 to Tank 80-018 will begin at approximately 11:15 am Saturday morning, March 23, 2019. Additional firefighting equipment will be staged before pumping begins.

The Incident Commander reported that additional foam totes were being deployed and were in route to the site. Once the totes arrive on site, a total of approximately 200 totes of foam will be available. The Deputy Incident Commander indicated that foam was continuously being dispersed every 30 to 40 minutes throughout the tank farm and that the containment wall had been rebuilt. There are plans to make improvements to the containment wall throughout the day Saturday, March 23, 2019.

Throughout the overnight operational period, multiple teams with air monitoring equipment were dispatched throughout the area. Teams of TCEQ regional investigators and NRC conducted odor surveys and air monitoring using handheld instruments throughout the community on March 22, 2019 and into March 23, 2019. No significant readings were detected. At 12:25 am, EPA START reported no significant readings of benzene in the Lynchburg area. CTEH reported a fence line (Independence Parkway and Tidal Road) benzene reading of 25 ppm at 3:29 am Saturday, March 23, 2019. At 4:56 am Saturday, March 23, 2019, a Port of Houston fireboat reported readings of 10 ppm benzene and 50 ppm of VOC at Care Terminal located at 16520 Peninsula Street, Houston.

Overnight, benzene measurements across all stationary monitors remained in the low ppb range. There was one elevated reading of 26.8 ppb at Channelview during the 6:00 pm hour with concentrations dropping back down to the low ppb range for subsequent hourly measurements.

The monitoring vans relocated along Jacintoport Blvd from 7:00 – 9:00 pm where they had multiple benzene readings in the 10 ppb range. At 10:00 pm, the vans relocated to the Lynchburg Ferry area due to shifting winds. No detectable benzene levels were measured at this location.

On March 22, 2019, The EPA ASPECT plane measured levels of isoprene (0.66 – 4.09 ppm) during one of the afternoon flights in the area surrounding the ITC site. The odor-based Air Monitoring Comparison Value (AMCV) is 0.048 ppm. The health-based AMCV is 1.4 ppm. None of the isoprene readings at the TCEQ stationary monitors in the area have measured above 0.0014 ppm at this time.

From: Jonathan Walling
Sent: Friday, March 22, 2019 8:35 PM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 6: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 6

On March 22, 2019, ITC received the equipment part to pump the contents of Tank 80-007 to Tank 80-018. ITC began the transfer operation but was interrupted three times due to three different events; a pump leak, a dike breach, and tank fires.

EPA and USCG began water sampling at approximately 10:00 am on March 22, 2019, at the confluence of Tucker Bayou and the ship channel.

TCEQ and Cardno (ITC contractor) conducted shoreline assessment along the ship channel.

During this operational period, ITC used vacuum trucks in the morning to collect the mixture of foam, firefighting water, and petrochemicals. from the dike to transfer into a wastewater tank, Tank 100-028. At approximately 10:30 am on March 22, 2019, ITC noticed that the dike wall had some leaks, and at approximately 12:00 pm, the dike wall (secondary containment) collapsed. The release is estimated to be between 1,680,000 to 3,360,000 gallons of a mixture of foam, firefighting water, and petrochemicals. The mixture reached a drainage ditch along Tidal Road, and eventually reached the Houston Ship Channel. As a precautionary measure, at approximately 12:05 pm, the USCG closed a portion of the Houston Ship Channel between Dow (Tucker Bayou) and the San Jacinto Monument to Crystal Bay, in response to the breach of the tank farm secondary containment wall.

EPA flew the ASPECT plane over the site and sent the TAGA bus from Deer Park to the San Jacinto Area.

Teams of TCEQ regional investigators and NRC conducted odor surveys and air monitoring using handheld instruments throughout the community during this operating period. No significant readings were detected.

On Friday, March 22, 2019 at approximately 3:30 pm, multiple tanks (Tanks 80-002, 80-003, and 80-005) in the west side of the ITC Deer Park site containment area re-ignited. EPA continued to monitor with the TAGA bus. At approximately 3:50 pm, the drainage ditch caught fire. Tidal Road and Independence Parkway were closed. At approximately 4:00 pm, the TCEQ Monitoring Division van, located at Jacintoport International Terminals North West of ITC across the Ship Channel, reported elevated levels of total VOC and strong odors. The van measured a reading of 207 ppb benzene and 35 ppm total VOC in this area.

ITC applied foam to the tanks on fire and the drainage ditch. A dry chemical powder was also used on the tank area. At approximately 4:29 pm, the ditch and tanks fires were extinguished but a grass fire began at approximately 4:36 pm and was extinguished at 5:15 pm. EPA reported TAGA readings of 1 ppm of benzene on Peninsula Street, near Buffalo Bayou.

On March 22, 2019, on behalf of the TCEQ, the Texas Attorney General filed a Petition and Application for Injunctive Relief in the District Court of Travis County against ITC, for violations of the Texas Clean Air Act.

From: Jonathan Walling
Sent: Friday, March 22, 2019 10:47 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 5: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 5

Overnight winds were out of the south-southwest around 5 mph, shifting to the west between 3:00 am and 4:00 pm. Winds are expected to be light and variable until late morning today when they should settle out of the SE around 5 mph.

Overnight, benzene measurements at the Lynchburg Ferry and Deer Park #2 CAMs were in the low ppb range. There was one elevated reading of 39.56 ppb at the Lynchburg Ferry CAMs during the 8:00 pm hour with concentrations dropping back down to the 4.0-5.0 ppb range for the subsequent hourly measurements.

PM2.5 measurements across Houston this morning continue to be in the moderate range (based on EPA's AQI scale).

An ozone action day has been forecast for the Houston and Beaumont areas for Friday, March 21st due to an increase in incoming background ozone in the wake of the departing cold front combined with afternoon sun and light winds.

ITC has contracted with The Response Group to develop and direct an Incident Action Plan.

Foam is being added to all impacted tanks and the secondary containment area. ITC is awaiting arrival of an equipment part to pump the contents of tank 80-007 into tank 80-018. The part is expected to arrive on March 22, 2019. Once this operation begins, the pump will transfer approximately 1400 barrels an hour, and the operation is expected to take approximately 8 to 9 hours.

The shelter-in-place recommendations in the cities of Deer Park and Galena Park were lifted at approximately 11:40 am Thursday, March 21, 2019. CTEH continued to conduct air monitoring in the Deer Park area where the shelter-in-place was enacted. From 4:00 am to 9:30 am on March 21, 2019, the average detection levels were 2.7 ppm benzene and 4.3 ppm VOCs in this area. TCEQ, EPA, ITC, and Deer Park officials discussed action levels for issuing shelter-in-place for the city. The city determined to leave the action levels at 1 ppm. CTEH continues to conduct air monitoring near the facility and in the residential areas. CTEH is also addressing any complaints received by ITC and are going to those complaint locations to conduct air monitoring.

EPA deployed its TAGA bus and conducted ASPECT aircraft sorties during this reporting period. EPA START contractors, Weston Solutions, will be conducting mobile air monitoring primarily in the residential area south of Highway 225. The EOC will be contacted from the field if benzene readings above 2.25 ppm are detected.

TCEQ investigators and TCEQ's contractor, NRC, conducted air monitoring with handheld instruments throughout the area during this operational period. Teams of TCEQ regional investigators and contractor NRC conducted odor surveys and air monitoring using handheld instruments throughout this operating period. Notable readings include a reading of 2.1 ppm benzene at Oak and Center Streets in Deer Park and VOC concentrations from 18.74 to 42.90 ppm in Deer Park south of Hwy 225.

TCEQ regional Investigators, accompanied by incident command staff, viewed the ITC site using an optical gas imaging camera (OGIC) from approximately 5:35 to 6:50 pm from near the intersection of Wayne's Private Blvd and Tidal Road to view. No emissions were detected by OGIC.

Monitoring vans conducted measurements at Lynchburg Ferry around midnight to confirm a benzene alarm of 500 ppb at that location. The van measured around 20 ppb at that location. The vans were relocated south around 3:30 am to 9705 Spencer Highway in La Porte. No detectable levels of benzene were measured. The vans were relocated once again at 10:30 am to the west of the ITC facility along Jacintocourt Blvd where they monitored throughout the remainder of the day. No detectable levels of benzene were measured.

ITC contractor, Cardno, continues to work on a water sampling plan and to conduct water sampling for ITC. CTEH is developing a waste management plan.

A flash fire occurred on a manifold at approximately 7:00 pm on March 21, 2019, when insulation on a charged steam line caught fire. The fire was extinguished within approximately five minutes.

A Rapid Assessment Team comprised of ITC, TCEQ, and USCG representatives will assess and document the extent of the fire water/firefighting foam runoff starting at approximately 8:15 am Friday March 22, 2019. USCG is working with Oil Mop Inc. (OMI) to recover firefighting foam from the Houston Ship Channel. OMI has three boats in the water using skimmers to collect the material and transfer it to a barge. At least one member of CTEH is simultaneously conducting air monitoring to ensure safety of personnel. If CTEH detects readings of 4 ppm of benzene, they are to contact the EOC.

School districts that will be closed on March 22, 2019, include Deer Park ISD, La Porte ISD, Pasadena ISD, Channelview ISD, Galena Park ISD, Sheldon ISD, Goose Creek ISD, San Jacinto College, Lee College, and several private schools.

From: Jonathan Walling
Sent: Thursday, March 21, 2019 10:55 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 4: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 4

At approximately midnight Thursday, March 21, 2019, CTEH and ITC handheld air monitors showed benzene levels between .5 ppm and 1.0 ppm around the Incident Command Post. The Command Post was moved to the Loves Travel Stop located at Highway 225 and Independence Parkway, where benzene was detected at 1.0 ppm. ITC sent out an E-Notify at 2:57 am stating that there was a potential for residential impact and at 3:26 am ITC sent out an industrial shelter-in place due to the elevated benzene readings. The Hot Zone was expanded from the tank farm on Tidal Road and Independence Parkway to as far south as Miller Cut-Off Road. At 4:30 am, Deer Park City Officials issued a shelter in place to include the area south of Tidal Road, east of Beltway 8, west of Underwood, and north of Pasadena Blvd due to the elevated readings. Deer Park Police closed Highway 225 from Beltway 8 to Miller Cut-Off Road. This was later expanded to close the highway from Beltway 8 east to State Highway 146. Deer Park ISD announced that schools would not be holding classes Thursday. According to Harris County OHSEM, La Porte ISD, Pasadena ISD, Sheldon ISD, Galena Park ISD, and Channelview ISD have also announced that schools would be closed Thursday. As of 5:00 am Thursday, local media is reporting that a distinctive odor has been noted in the Deer Park area.

At approximately 4:30 am, Weston Solutions detected benzene levels of .35 ppm at East 13th Street and East Blvd, Deer Park. Weston Solutions next plans to take readings at the intersections of East Blvd and E San Augustine, East Blvd and E Pasadena Blvd, and East Blvd and Spencer Highway.

The TCEQ Monitoring Division (MD) conducted sampling near the intersection of Beltway 8 (east) and I-10. The MD later conducted additional sampling at 15631 Jacintoport Blvd, east of the previous sample location. TCEQ Region 10 (Beaumont) sent 8 staff to assist with air monitoring. NRC contractors arrived at the Houston Regional office at approximately 10:30 pm to assist with air monitoring. From 3:30 am to 4:30 am Thursday, TCEQ Air investigators detected VOC readings as high as 8ppm at La Porte Elementary.

The EPA is continuing to conduct air monitoring near the facility and within the communities. The TAGA mobile lab has arrived and is beginning to conduct monitoring this morning (Thursday, March 21, 2019). The TAGA lab will focus on areas where there have been complaints and elevated air monitoring readings.

There was a flare-up at Tank 80-005 containing mixed xylenes at approximately 5:23 pm Wednesday. Video of the flare-up was broadcast on local and national media. The fire was extinguished in less than 15 minutes. ITC is applying foam at the impacted tanks to prevent the flareup of any more tanks. Foam is being added approximately three times every four hours at a rate of 180,000 gallons of foam per foaming operation. The facility stated that there is approximately 2 feet of freeboard within the secondary containment. The secondary containment has a capacity of 175,000 barrels (7.38 million gallons). On Wednesday, the facility closed outfall 003 and reduced sampling frequency downstream of the outfall from hourly to once per two hours. The facility stated that it will open outfall 003 at each foaming operation to manage the water in the secondary containment and remove approximately what is being pumped onto the fire per operation. The TCEQ and EPA requested that water sampling be done each time the outfall is opened. The facility plans to conduct sampling of each foam used to fight the fire to ensure that none contain PFAS beginning Thursday, March 21, 2019. This analysis has a turnaround time of five days. The facility stated that a surface drain discharges near the same point as outfall 003 and that this is the source of runoff water currently flowing in the facility ditch. The facility has requested that a contractor, Oilmop, mobilize resources (skimmers, vac trucks, and frac tanks) and ensure that boom placement is effective and that booms remain in place. The EPA is planning to collect additional water samples with U.S. Coast Guard on the bayou and TCEQ and it's contractor will participate in this sampling effort. At 4:45 am. on March 20, 2019 during water sampling where the discharge enters Tucker Bayou, Weston Solutions detected benzene in the air at 1.5 ppm.

During a TCEQ water sampling event conducted Wednesday between 5:00 pm and 8:30 pm, oily product was found in the water near a sampling point in a stream running parallel to Tidal Road and flowing into Tucker Bayou. The water appeared coffee colored with an oily bubbly looking substance on top of the water.

ITC is developing a plan to collect the firefighting foam and water and to either place it in Tank 100-18 or onto a barge for storage until a proper disposal plan can be generated. Another option would be to treat the water at the wastewater plant located at the facility; however, facility personnel expressed concern about brackish water adversely affecting the wastewater plant.

On Wednesday, facility personnel stated that they were planning to move products out of tanks in the affected area giving priority to removing pygas. The facility began to pump the remaining material from Tank 80-007 (pygas) to Tank 100-028 which has a capacity of 100,000 gallons on Wednesday. This operation failed because the valve for tank 80-007 was inaccessible due to flooding. Pygas from Tank 80-010 was being pumped to 100-028. The pumping of 80-010 is expected to be completed by the end of the day March 21, 2019.

From: Jonathan Walling
Sent: Wednesday, March 20, 2019 11:41 AM
To: HSNotify <HSNotify@tceq.texas.gov>; IGR <IGR@tceq.texas.gov>
Subject: Update 3: R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

Update No. 3

At approximately 3:00 AM on March 20, 2019, ITC drafted a press release stating that the fire was extinguished and in "cooling mode." Only fire water will continue to be put on the tanks for cooling and to help prevent any potential flare ups. Fire foam will remain on standby in the event any flames reoccur. Prior to 3:00

AM, and throughout the day on March 19, 2019, the fire management in the tank farm was dynamic (e.g., managing flare ups in different tanks; floating fire adjacent to a tank, etc.).

Currently, the following have reported school closures for March 20, 2019: Deer Park ISD, La Porte ISD, Channelview ISD, Sheldon ISD, Galena Park ISD, San Jacinto College, and Pasadena ISD. The closure determination was made prior to midnight.

TCEQ staff continue to assist Unified Command. Update meetings with ITC are being conducted every three hours. TCEQ staff oversaw its contractor's collection of water samples in Tucker Bayou. TCEQ staff also conducted air monitoring and odor surveys in the surrounding communities. The TCEQ's emergency response coordinator went to the incident command post (ICP) to observe the current status of fire-fighting efforts overnight. With the fire status as extinguished, the Unified Command is evaluating moving to a condensed schedule. Currently proposed is a 7 am to 7 pm shift. Any change in command coverage will be confirmed at the next update. The U.S. Coast Guard continues to monitor the incident and the operations at Tucker Bayou and participate in Unified Command. Harris County Pollution Control continues to address citizen complaints and conduct air monitoring in correlation with the direction of the plume.

Weston Solutions conducted air monitoring downwind of the fire while following the plume according to weather conditions during this period. In addition, at the request of EPA, Weston Solutions conducted air monitoring at 14 superfund sites in the area. No detections observed above background in those locations. Constituents monitored: VOCs, Oxygen, LEL, H2S, CO, Benzene (if needed) using Instruments MultiRAE Pro, UltraRAE (if needed for benzene).

On March 19, 2019, Ms. Sara Montelongo-Oyervidez, District Director of State Senator Carol Alvarado's office visited the ICP at ITC to review operations.

Air: CTEH continues to conduct air monitoring and has now moved closer towards the source. CTEH continues to monitor for components of gasoline blend stock (benzene, toluene, ethyl benzene, and xylene a.k.a. BTEX) and VOCs under the plume. Monitoring data was provided by CTEH at 7:20 pm and 11:06 pm; no detections above action levels have been observed away from the tank farm. EMSI has been contracted by ITC to supplement the CTEH monitoring and is utilizing a mobile air monitoring unit. At the request of Unified Command, EMSI is monitoring residential communities and schools in the downwind areas of the plume. EPA requested that Weston Solutions continue neighborhood air monitoring through March 21, 2019.

The ITC contractor, CTEH, conducted air monitoring in Katy, Brookshire, and in the City of Houston. There were no detections observed above background in those locations. Constituents being monitored are LEL, H2S, VOCs, CO, Oxygen, Benzene, Formaldehyde, Hexane, Naphtha, Naphthalene, Nitrogen Dioxide, Toluene, Xylene, and PM 2.5 using instruments MultiRae Series, AM510 or TSI Dust Cracks Gas Tech Color Metric Tubes, and UltraRAE.

The EPA's TAGA is scheduled to arrive Thursday March 21, 2019. Weston Solutions continues to monitor the downwind areas. Water sampling and particulate matter sampling will be conducted March 20, 2019 by Weston.

TCEQ Regional air monitoring teams and the TCEQ's Monitoring Division staff addressed the area east of 610, north of the ship channel (Cloverleaf, Manchester, Pasadena, Galena Park, Jacinto City, Channelview) on March 19, 2019 during the day and overnight. The crews are being repositioned on March 20, 2019 to account for the shift in the wind direction (more from the N/NE, slight wind). The TCEQ will continue air monitoring efforts until further notice.

Water information: ITC is collecting samples of its wastewater discharge every hour and testing for pH and COD in its in-house lab. Samples will be sent to ALS Laboratories for VOC, SVOCs, Oil & Grease, and COD analyses (results not yet provided). ITC provided a consolidated water sampling activity summary to the TCEQ/EPA overnight. ITC has engaged a contractor (Cardno) to develop a more specific document for sampling activities. Receipt of this document is anticipated to be late on March 20, 2019. The status of the analytical information has again been requested. The TCEQ will continue water sampling efforts until further notice.

The facility has placed a series of double booms along Tucker Bayou to help with any oil and foam containment. Skimmers have been engaged by ITC to remove foam from the bayou and the channel. Collected materials are moved via vacuum trucks to onsite frac tanks for temporary storage. The TCEQ did not observe the skimmers during the sampling conducted late afternoon of March 19th. The TCEQ Waste and Water Sections will be following up with the facility regarding the disposition of the collected materials.

TCEQ and EPA are coordinating efforts for water sampling.

- Weston Solution will be conducting water sampling in four locations on March 20, 2019, prior to Tucker Bayou for VOC, SVOCs, Oil & Grease, and COD.

- TCEQ has contracted NRC to conduct water sampling from Tucker Bayou to the Houston Ship Channel. On March 19, 2019, the contractor and TCEQ staff conducted sampling at four locations near the facility: at the confluence of Tucker Bayou and the Channel (just inside the boom); in the ditch along Tidal Road towards the facility; at the junction of the ditch and Tucker Bayou; and at a nearby bayou as a background. The samples will be analyzed for the primary parameters identified for the facility's main outfall (001): VOC, SVOCs, TSS, TDS, Total Metals, TCLP (if total metals elevated). Foam was observed on the bayou in places and into the channel.

- Additional sampling activities and the locations will be adjusted to reflect field conditions/observations. The sampling will be conducted until further notice.

Update No. 2

As of 2:00 am March 19, 2019, there were up to 10 tanks engaged in the fire, two of which are empty.

Weston Solutions conducted air monitoring down wind of the fire and followed the plume according to weather conditions. No readings of concern have been noted.

Harris County Pollution Control Services is conducting air monitoring and continues to address complaints that have been received by their office.

TCEQ Monitoring Division began conducting air monitoring in the Galleria area on March 18, 2019, the TCEQ Region 12 Office conducted monitoring into the morning hours on March 19, 2019 and continues to conduct monitoring. Based on the latest field observations, no readings of concern have been noted by region staff.

The foam and fire water runoff is being flushed into a ditch that leads to outfall 003 and then Tucker Bayou. ITC is conducting hourly water sampling at the outfall and has not yet provided sampling data. The Coast Guard sent a small boat into Tucker Bayou for a visual inspection of impacts to the waterway. Some residual foam was observed in the bayou.

The facility is still currently attempting to empty tank 80-008 containing Naphtha. The other tanks are not being emptied due to safety reasons. ITC has hired a contractor to assist in fire-fighting efforts. The current Incident Commander for ITC is Hector Cadena.

Two STEERs reports for the fire-related emissions events have been submitted to the TCEQ. Report No. 304871 was submitted on March 18, 2019 at 10:05 a.m. for Tank 80-008. Report No. 304942 was submitted on March 18, 2019 at 4:56 p.m. for Tanks 80-002, 80-003, 80-005, 80-006, 80-011, and 80-013.

HOUSTON DEER PARK (CAMS 35)

The TCEQ ambient monitoring station at Houston Deer Park (CAMS 35) experienced operational issues with the AutoGC sampler, indicated by quality control failures on March 11. Therefore, data were invalidated back to the previous passing daily QC check which was March 10. Only the AutoGC was affected; other samplers at this monitoring station continued to operate normally.

The TCEQ contractor performed the repair March 13-16, 2019. Following this repair, the contractor must run a 1-point QC check, followed by a multi-point check typically completed within a few days. The instrument passed the 1-point QC check at 8:00 am on Saturday, March 16, 2019. The instrument resumed ambient data collection at 11:00 am on Saturday, March 16, 2019, the day before the fire.

The instrument continued to collect ambient data throughout the day on Sunday, March 17, 2019 and into Monday, March 18, 2019 until 5:00 am. The contractor began the multi-point check at 6:00 am on Monday, March 18, 2019. This QC check is required in the days following a repair.

The multi-point check was completed and ambient data collection has resumed as of 1:00 pm, Monday, March 18, 2019.

The ambient data collected from Saturday, March 16, 2019 through early Monday, March 18, 2019, have undergone preliminary review and are within required quality standards.

The valid ambient AutoGC data collection resumed at 1:00 pm CST on march 18, 2019 and data appears ambient and consistent with normal trends.

TCEQ Region 12 Environmental Investigators, TCEQ Monitoring Division, Harris Co., EPA contractor Weston Solutions, CTEH, and Houston HAZMAT are continuing to conduct air monitoring across the affected area. EPA estimated that a Trace Atmospheric Gas Analyzer will arrive on site on Thursday, March 21, 2019.

The TCEQ continues to be engaged with Unified Command on a 24-hour basis.

Update No. 1

The responders on scene are Channel Industries Mutual Aid (CIMA), Houston Port Authority, Harris County Hazmat (HC Hazmat), Harris County Pollution Control Services (HCPCS), United States Coast Guard (USCG), Environmental Protection Agency (EPA)/Weston Solutions. Todd Teague is the Incident Commander with CIMA, and Carl Kelly is the Incident Commander for ITC. EPA, TCEQ, and local authorities are coordinating with the first responders.

TCEQ staff were present overnight and will continue to have a presence onsite throughout the event.

The fire started at 10 AM (3/17/19) at Tank 080-008. The responders have not estimated the duration of the event. Tank No. 080-008 held 74,000 bbl. of naphtha (3.1 million gallons). As of 4:30 AM (3/18/19), there were at least eight tanks reported to be engaged in the fire in some manner (e.g., insulation; piping manifold). The contents of these tanks are petroleum fuels and solvents. The remaining six tanks at the tank farm contain gasoline blend stock (e.g., pyrolysis gas).

Air monitoring in the area and downwind conducted by local, state, and federal agencies (HCPCS, Houston Port Authority, HC Hazmat, TCEQ) have had no findings of concern. ITC contracted with CTEH and 24 HR Safety to conduct air monitoring and have had no findings above established action levels. CTEH drafted and submitted an air monitoring plan to Incident Command.

Air monitoring will continue to be conducted by the RP, TCEQ, and other state, federal, and local authorities. Additional monitoring equipment and TCEQ staff arrived onsite on 3/18/19.

The City of Deer Park expanded the initial shelter-in-place to include the whole city at approximately 1:20 PM (3/17/19). At 6:00 AM (3/18/19), the City of Deer Park announced that the shelter-in-place was lifted. Also, all Deer Park and La Porte independent School District campuses will be closed 3/18/19. Please see links below:

http://www.ci.deer-park.tx.us/CivicAlerts.aspx?AID=979

https://www.lpisd.org/

A release of fire water to the stormwater system occurred. Flow left the plant property at stormwater outfall No. 003 into a ditch that leads to the Houston Ship Channel (HSC) which is over one mile downsteam. Booms have been placed in the ditch to prevent the fire water from reaching the HSC.

The TCEQ Emergency Management Strike Team is enroute to assist and contribute to the response efforts.

From: Jonathan Walling
Sent: Sunday, March 17, 2019 2:48 PM
To: HSNotify <HSNotify@tceq.texas.gov>
Cc: IGR <IGR@tceq.texas.gov>
Subject: Initial/R12/Air and Fire/Smoke and Naphtha/Intercontinental Terminals - Deer Park Terminal/Significant Incident/Notification Report to State Legislators

On March 17, 2019 at approximately 10:00 a.m., Intercontinental Terminals Deer Park (ITC) experienced a fire at their tank farm. The incident was reported through Chemtel No. 20190902 at 12:13 p.m. and NRC No. 1240304 at 12:29 p.m. The ITC representative indicated that the fire was in a tank that contained naphtha and may burn for an unknown amount of time. Mr. Hill, HCPCS, stated there were road closures but it is unknown which specific locations were closed at this time.

Mr. Craig Hill, Field Manager for Harris County Pollution Control Services (HCPCS), stated that they currently have investigators out in the field conducting air monitoring (benzene). ITC representatives stated they would also be conducting air monitoring. At this time, the specifics regarding the air monitoring location(s) is not known to the ERC.

The ERC Tina Tran was dispatched to the site and arrived on-scene at approximately 1:45 p.m. The ERC will evaluate the incident and provide update(s).

A shelter-in-place was enacted for the north end of the City of Deer Park by city emergency personnel.

There is media coverage on this incident event:

https://abc13.com/shelter-in-place-issued-for-deer-park-after-facility-fire/5200816/

https://www.khou.com/article/news/local/shelter-in-place-issued-in-deer-park-due-to-fire-burning-at-plant/285-30ca8f2d-f977-4b38-b2ca-a1f76f6140b5

https://www.12newsnow.com/article/news/shelter-in-place-issued-in-deer-park-due-to-tank-fire/502-30ca8f2d-f977-4b38-b2ca-a1f76f6140b5

https://www.click2houston.com/news/fire-reported-inside-itc-deer-park-facility-day-after-exxon-plant-fire

A STEERS report will be submitted for this event as needed.

SitRep

Type of Incident: Air Release

TCEQ Notification Type: Significant Incident

Notification Status: Initial

General Incident Information:

Type of Incident: Fire

Date: 3/17/2019

Time Incident Started: 1000 hours

Time TCEQ Notified: The TCEQ has received SERC and NRC notifications at 1213 and 1229 hours

TCEQ Region: 12- Houston

Responsible Party (RP)/Regulated Entity Information/Incident Location

RP/Regulated Entity Name: Intercontinental Terminals Deer Park Terminal
RN Number: RN100210806

Incident location: 1943 Independence Pkwy S

City: La Porte

County: Harris

RP Contact Name and Information: Mr. Mike Taylor

Specific Incident Information:

Description of Event / Cause: On March 17, 2019 at approximately 10:00 a.m., Intercontinental Terminals Deer Park (ITC) experienced a fire at their tank farm. ITC evacuated personnel. A shelter-in-place was enacted for the north end of the City of Deer Park by city emergency personnel. ERC Tina Tran was dispatched to the site at approximately 1245 hours and arrived at

approximately 1345 hours. The ERC will evaluate the incident and provide an update/assessment.

Material Released: Smoke

Amount Released: Unknown

Affected Media: Air

Injuries or Fatalities: None Reported

Other Risks: N/A

Current Response:

TCEQ Response: ERC Tina Tran dispatched at 1245 hours; arrived 1345 hours

TCEQ Responder Name and Contact Information: Ms. Tina Tran

Incident Commander Name and Contact Information: Unknown

Other Federal, State, or Local Authorities on Site: Harris County Pollution Services

Other Pertinent Information, If Applicable:

Weather: 59 degrees F

Wind Direction: 9 miles per hour from the Northeast

Potentially Impacted Receptors: Surrounding land use is commercial and residential. The nearest sensitive receptor is a subdivision about 2 miles SSW.

Other: None

**** PLEASE NOTE: This notification is based on the initial report of a spill / release / emission event / threat / or other such occurrence received by TCEQ. Since this notification may contain preliminary information, the TCEQ cannot verify the types or quantities of releases at this time and cannot make any definitive determination about the potential danger to human health or the environment as a result of this release. Specific chemicals, quantities, and the identified risk to human health and safety or environment may change as more information becomes available. TCEQ is providing the information available for the incident at the time of the notification. Staff may not have all the information requested on this Template.**

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/22/2019 9:21:16 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]
CC: Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Jack Hanley [jah8@cdc.gov]; ran2@cdc.gov
Subject: Fwd: Deer Park Fire SITREP #2
Attachments: SITREP-2 3.22.19 - Deer Park.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: Melody Gardner <MELODY.GARDNER@phhs.org>
Date: March 22, 2019 at 3:53:17 PM CDT
To: "Baker, David" <David.Baker@BSWHealth.org>, "David (UTMB)" <dbaker@utmb.edu>, Jeanie Jaramillo <Jeanie.Jaramillo@ttuhsc.edu>, "Kelly Hogue" <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, "Veronica Stoller" <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, Joshi Prashant <prashant.joshi@ttuhsc.edu>, Ryan Morrissey <rmorrissey@swmail.sw.org>, Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>, Stephen Borron <Stephen.borron@ttuhsc.edu>, Thomas Martin <Thomas.Martin@ttuhsc.edu>, Wayne Snodgrass <wsnodgra@utmb.edu>, "young.patrick@epa.gov" <young.patrick@epa.gov>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, "Kelli Merriweather" <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, "Dawn Marchetto" <DAWN.MARCHETTO@phhs.org>
Subject: RE: Deer Park Fire SITREP #2

Good afternoon.

Please see attached for SITREP #2

From: Melody Gardner
Sent: Friday, March 22, 2019 7:08 AM
To: 'Baker, David'; 'David (UTMB)'; 'Jeanie Jaramillo'; Kelly Hogue; 'Sal Baeza'; 'Veronica Stoller'; Brett Roth; Dr. Varney; Joshi Prashant; 'Ryan Morrissey'; Sharilyn Stanley; Stephen Borron; Thomas Martin; 'Wayne Snodgrass'; 'young.patrick@epa.gov'; Hall,Emily (DSHS) (Emily.Hall@dshs.texas.gov); Stuteville,Haylea (DSHS) (Haylea.Stuteville@dshs.texas.gov); Kelli Merriweather (kellim@csec.texas.gov); James Johnson (jamesmj@csec.texas.gov); Kaitlyn Cross
Subject: Deer Park Fire SITREP #1

See attached.

Melody Gardner MHA, MSN, RN
Alumnus CCRN
Director of Biotel, North Texas Poison Center, and Emergency Observation
Parkland Health & Hospital System
5201 Harry Hines Blvd.
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Texas Poison Center Network

Friday, March 22, 2019
Intercontinental Terminal Company Fire in Deer Park, Texas

Daily Situation Report (SITREP) #2
Reporting Period: Friday, March 22, 2019

Current Situation:

- Intercontinental Terminal Company chemical storage tanks caught fire the evening of Sunday, March 18, 2019. The chemicals released in the fire include Naphtha, Xylene, Toluene, and Benzene. The fire continued to burn until Wednesday, March 20, 2019.

- Based on air monitoring reports from TCEQ taken today, local officials report readings remain below action levels. No serious injuries have been reported from the incident. Continuous air monitoring by TCEQ and EPA are being done.

- On Friday March 22, 2019 at approximately 12:15PM the dike wall at ITC Deer Park containing the product released during the recent fire event partially collapsed. As a result, ITC sent out a Shelter-In-Place notification to industrial neighbors and the San Jacinto Texas State Historic Site. At this time, the City of Deer Park is not ordering this within the city limits and will update as available.

- Poison Centers collected data from calls in which information was requested regarding the chemicals involved; a person was reporting being exposed to the toxic fumes, or health care professionals requesting recommendations regarding treatment symptoms.

- The most common reported symptoms as of 3/22/19 were headache, nausea, throat irritation, cough, dizziness and or vertigo, chest pain, and ocular irritation.

- The TPCN received a total of 132 calls from 3/17/19 to 3/22/19 as if 12:45 pm. Of these calls, 132 calls were exposures and 31 were requests for information calls.

	Exposure	Information	Total
Calls per day			
3/17/2019	1	0	1
3/18/2019	4	2	6
3/19/2019	6	1	7
3/20/2019	5	1	6
3/21/2019	12	1	13
3/22/2019	104	26	130
Total	**132**	**31**	**163**

Symptom	Frequency
Chest Pain	12
Hypertension	3
Dermal Irritation or Pain	6
Abdominal Pain	4
Diarrhea	5
Nausea	20
Throat Irritation	19
Vomiting	12
Dizziness / Vertigo	14
Headache	38
Occular Irritation	12
Cough	17
Dyspnea	4
Other	9

Type of Total Information Calls	
Type	Frequency
Drug Information	1
Environmental Information	9
Poison Informtaion	2

	Benzene	Carbon Monoxide	Ethylene Dichloride	General / Unknown	Hydro carbon	Indoor Air Quality	Naptha	Smoke	Toluene	Xylene	**Total**
17-Mar	0	0	0	0	1	0	0	0	0	0	**1**
18-Mar	0	1	0	1	0	0	3	1	2	3	**11**
19-Mar	0	1	1	0	1	1	1	3	1	2	**11**
20-Mar	5	0	0	0	0	0	3	0	3	3	**14**
21-Mar	42	1	0	0	0	0	0	49	0	0	**92**
22-Mar	0	0	0	0	0	0	0	5	0	0	**5**
Exposure Calls	40	3	1	1	2	0	5	56	4	6	**118**
Information Calls	7	0	0	0	0	1	2	2	2	2	**16**
Total	**47**	**3**	**1**	**1**	**2**	**1**	**7**	**58**	**6**	**8**	**134**

Contact Personnel:

Melody Gardner, RN, MSN, MHA
Managing Director North Texas Poison Center
PCCC Chair
Office – 469-419-0456
Melody.Gardner@phhs.org

Message

From: SBaeza@umcelpaso.org [SBaeza@umcelpaso.org]
Sent: 3/22/2019 5:52:34 PM
To: Baker, David [David.Baker@BSWHealth.org]; David (UTMB) [dbaker@utmb.edu]; Jeanie Jaramillo [Jeanie.Jaramillo@ttuhsc.edu]; Kelly Hogue [KELLY.HOGUE@phhs.org]; Melody Gardner [MELODY.GARDNER@phhs.org]; Veronica Stoller [Stoller@uthscsa.edu]
CC: Young, Patrick [young.patrick@epa.gov]; Brett Roth [Brett.Roth@UTSouthwestern.edu]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Hall,Emily (DSHS) [Emily.Hall@dshs.texas.gov]; Stuteville,Haylea (DSHS) [Haylea.Stuteville@dshs.texas.gov]; Hanley, Jack (ATSDR/DCHI/CB) [jah8@cdc.gov]; James Johnson [jamesmj@csec.texas.gov]; Kaitlyn Cross [KAITLYN.CROSS@phhs.org]; Kelli Merriweather [kellim@csec.texas.gov]; Mason, Steve [mason.steve@epa.gov]; Joshi Prashant [prashant.joshi@ttuhsc.edu]; Ryan Morrissey [rmorrissey@swmail.sw.org]; Stephen Borron [Stephen.borron@ttuhsc.edu]; Thomas Martin [Thomas.Martin@ttuhsc.edu]; Dr. Varney [Varney@uthscsa.edu]; Wayne Snodgrass [wsnodgra@utmb.edu]
Subject: RE: Deer Park Fire SITREP #1
Attachments: Deer Park Guidance for SPIs.docx

Attached is an updated FAQ for the SPIs to include the guidance provided by Harris County Public Health which we received this morning.

Please share with your SPIs.

Gracias.

Salvador Baeza, PharmD, DABAT
Director, West Texas Regional Poison Center
T 915-534-3801 F 915-534-3809
UNIVERSITY MEDICAL CENTER OF EL PASO

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From: "Young, Patrick" <young.patrick@epa.gov>
To: Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, David" <David.Baker@BSWHealth.org>, "David (UTMB)" <dbaker@utmb.edu>, Jeanie Jaramillo <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, Joshi Prashant <prashant.joshi@ttuhsc.edu>, Ryan Morrissey <rmorrissey@swmail.sw.org>, Stephen Borron <Stephen.borron@ttuhsc.edu>, Thomas Martin <Thomas.Martin@ttuhsc.edu>, Wayne Snodgrass <wsnodgra@utmb.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>
Cc: "Mason, Steve" <mason.steve@epa.gov>, "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>, "Hanley, Jack (ATSDR/DCHI/CB)" <jah8@cdc.gov>
Date: 03/22/2019 07:23 AM
Subject: RE: Deer Park Fire SITREP #1

CAUTION: This email originated from outside of UMC/EPCH. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Outstanding PCCs and Texas Department of State Health Services!! I shared your situation report with the EPA and ATSDR/CDC in Atlanta.

I will also highlight your work at the Regional Response Team (RRT) meeting next week in Oklahoma City, OK. I will showcase your work and add that you would like at a minimum, 6 hours notification in order to get public health messaging developed. And that you will need the chemical information from the environmental responding group as soon as possible in order to develop appropriate messaging.

CAPT Patrick Young, MS, RS
U.S. Public Health Service
ATSDR R6 Regional Rep
Division of Community Health Investigation
Dallas, Texas
214-665-8562 (o)

From: Melody Gardner <MELODY.GARDNER@phhs.org>
Sent: Friday, March 22, 2019 7:08 AM
To: Baker, David <David.Baker@BSWHealth.org>; David (UTMB) <dbaker@utmb.edu>; Jeanie Jaramillo <Jeanie.Jaramillo@ttuhsc.edu>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Sal Baeza <sbaeza@umcelpaso.org>; Veronica Stoller <Stoller@uthscsa.edu>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Dr. Varney <Varney@uthscsa.edu>; Joshi Prashant <prashant.joshi@ttuhsc.edu>; Ryan Morrissey <rmorrissey@swmail.sw.org>; Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>; Stephen Borron <Stephen.borron@ttuhsc.edu>; Thomas Martin <Thomas.Martin@ttuhsc.edu>; Wayne Snodgrass <wsnodgra@utmb.edu>; Young, Patrick <young.patrick@epa.gov>; Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>; Kelli Merriweather <kellim@csec.texas.gov>; James Johnson <jamesmj@csec.texas.gov>; Kaitlyn Cross <KAITLYN.CROSS@phhs.org>
Subject: Deer Park Fire SITREP #1

See attached.

Melody Gardner MHA, MSN, RN
Alumnus CCRN
Director of Biotel, North Texas Poison Center, and Emergency Observation
Parkland Health & Hospital System
5201 Harry Hines Blvd.
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Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/28/2019 8:30:06 PM
To: Mason, Steve [mason.steve@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Eppler, David [Eppler.David@epa.gov]
CC: Jack Hanley [jah8@cdc.gov]; lyke jennifer [lyke.jennifer@cdc.gov]; ran2@cdc.gov; yjp8@cdc.gov; Julia Lothrop [Julia.Lothrop@hhs.gov]; fred.schuster@hhs.gov; Mark Ryan [MRyan@lsuhsc.edu]; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]; Christine Hanson [christine.hanson@fema.dhs.gov]; Amyo.Taylor@hhs.gov
Subject: Fwd: Texas Poison Control Network SITREP_6 3.28.19
Attachments: image001.png; ATT00001.htm; TPCN_SITREP-6_3.28.19 - Deer Park.docx; ATT00002.htm

Sent from my iPhone

Begin forwarded message:

> **From:** "Baker, Steven D." <dbaker@UTMB.EDU>
> **Date:** March 28, 2019 at 3:14:09 PM CDT
> **To:** "Baker, David" <David.Baker@BSWHealth.org>, "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, "Kelli Merriweather" <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, "Dawn Marchetto" <DAWN.MARCHETTO@phhs.org>
> **Subject: TPCN_SITREP_6 3.28.19**

S. David Baker, PharmD, DABAT, FAACT
Director - Interim
Southeast Texas Poison Center
Office phone 409.772.3306

From: Baker, David <David.Baker@BSWHealth.org>
Sent: Wednesday, March 27, 2019 4:46 PM
To: Young, Patrick <young.patrick@epa.gov>; Snodgrass, Wayne R. <wsnodgra@UTMB.EDU>; Martin, Thomas <Thomas.Martin@ttuhsc.edu>; Melody Gardner <MELODY.GARDNER@phhs.org>; Baker, Steven D. <dbaker@UTMB.EDU>; Jaramillo, Jeanie <Jeanie.Jaramillo@ttuhsc.edu>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Sal Baeza <sbaeza@umcelpaso.org>; Veronica Stoller <Stoller@uthscsa.edu>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Dr. Varney <Varney@uthscsa.edu>; Joshi, Prashant <Prashant.Joshi@ttuhsc.edu>; Morrissey, Ryan P M.D. <Ryan.Morrissey@BSWHealth.org>; Borron, Stephen <Stephen.Borron@ttuhsc.edu>; Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>; Kelli Merriweather <kellim@csec.texas.gov>; James Johnson <jamesmj@csec.texas.gov>; Kaitlyn Cross <KAITLYN.CROSS@phhs.org>; Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: RE: Deer Park Fire SITREP #5

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Let's try that again with attachment ☺

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

From: Baker, David
Sent: Wednesday, March 27, 2019 4:34 PM
To: 'Young, Patrick' <young.patrick@epa.gov>; 'Snodgrass, Wayne R.' <wsnodgra@UTMB.EDU>; 'Martin, Thomas' <Thomas.Martin@ttuhsc.edu>; 'Melody Gardner' <MELODY.GARDNER@phhs.org>; 'Baker, Steven D.' <dbaker@UTMB.EDU>; 'Jaramillo, Jeanie' <Jeanie.Jaramillo@ttuhsc.edu>; 'Kelly Hogue' <KELLY.HOGUE@phhs.org>; 'Sal Baeza' <sbaeza@umcelpaso.org>; 'Veronica Stoller' <Stoller@uthscsa.edu>; 'Brett Roth' <Brett.Roth@UTSouthwestern.edu>; 'Dr. Varney' <Varney@uthscsa.edu>; 'Joshi, Prashant' <Prashant.Joshi@ttuhsc.edu>; Morrissey, Ryan P M.D. <Ryan.Morrissey@BSWHealth.org>; 'Sharilyn Stanley' <sharilyn.stanley@csec.texas.gov>; 'Borron, Stephen' <Stephen.Borron@ttuhsc.edu>; 'Hall,Emily (DSHS)' <Emily.Hall@dshs.texas.gov>; 'Stuteville,Haylea (DSHS)' <Haylea.Stuteville@dshs.texas.gov>; 'Kelli Merriweather' <kellim@csec.texas.gov>; 'James Johnson' <jamesmj@csec.texas.gov>; 'Kaitlyn Cross' <KAITLYN.CROSS@phhs.org>; 'Dawn Marchetto' <DAWN.MARCHETTO@phhs.org>
Subject: Deer Park Fire SITREP #5

Here is today's Sit rep from poison center

First page – updates in red font – Thanks Patrick for the added information

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

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Texas Poison Center Network

Thursday, March 28, 2019
Intercontinental Terminal Company Fire in Deer Park, Texas

Daily Situation Report (SITREP) #6
Reporting Period: March 18, 2019 - March 28, 2019 (9am)

Current Situation:

- Intercontinental Terminal Company chemical storage tanks caught fire the evening of Sunday, March 18, 2019. The chemicals released in the fire include Naphtha, Xylene, Toluene, and Benzene. The fire continued to burn until Wednesday, March 20, 2019.

- Based on air monitoring reports from TCEQ taken today, local officials report readings remain below action levels. No serious injuries have been reported from the incident. Continuous air monitoring by TCEQ and EPA are being done.

- On Friday March 22, 2019 at approximately 12:15PM the dike wall at ITC Deer Park containing the product released during the recent fire event partially collapsed. As a result, ITC sent out a Shelter-In-Place notification to industrial neighbors and the San Jacinto Texas State Historic Site. At this time, the City of Deer Park is not ordering this within the city limits and will update as available.

- Poison Centers collected data from calls in which information was requested regarding the chemicals involved; a person was reporting being exposed to the toxic fumes, or health care professionals requesting recommendations regarding treatment symptoms.

- The most common reported symptoms as of 3/25/19 were headache, nausea, throat irritation, cough, dizziness and or vertigo, chest pain, and ocular irritation.

- Texas Department of State Health Services is warning people not to eat fish caught in the Houston Ship Channel. The entire area has been closed since Friday (3/22/19), and the U.S. Coast Guard has been skimming the water to pull out oily product.

- The TPCN received a total of 235 calls from 3/17/19 to 3/28/19 as of 9 am. Of these calls, 175 calls were exposures and 60 were requests for information calls.

Table 1	Exposure	Information	Total
Calls per day			
03/17/2019	1	0	**1**
03/18/2019	4	4	**8**
03/19/2019	6	5	**11**
03/20/2019	5	1	**6**
03/21/2019	73	16	**89**
03/22/2019	42	21	**63**
03/23/2019	15	5	**20**
03/24/2019	8	1	**9**
03/25/2019	11	3	**14**
03/26/2019	7	2	**9**
03/27/2019	3	2	**5**
Total	**175**	**60**	**235**
Patient Age Group			
>13	19	2	**21**
13-19	9	0	**9**
20-29	28	1	**28**
30-39	26	0	**26**
40-49	27	1	**28**
50-59	15	0	**15**
<=60	20	0	**19**
Total	**144**	**4**	**148**
**Missing = 53			

Table 1	Exposure	Information	Total
Caller Relation to Patient			
Medical Professional (500-504)*	47	5	**51**
Self (505)*	67	4	**70**
Relative (506-510)*	31	4	**35**
Other (511-512)	2	0	**2**
Total	147	13	**160**
**Missing = 44			

Caller Site			
Own Residence (230)*	112	8	**120**
Other residence (231)*	1	0	**1**
Workplace (232)*	1	0	**1**
Health Care Facility (233)*	53	5	**58**
Public Area (236)*	1	0	**1**
Other (237)*	6	1	**7**
Unknown (238)*	1	0	**1**
Total	**175**	**14**	**189**
**Missing = 21			

* The number in the parenthesis () corresponds to the code in Toxicall
** Number missing calls from category

Table 2 below displays the total number of information case records received, grouped by the type of information call.

Table 2: Type of Total Information Calls	
Type	Frequency
Drug Information (251)	2
Environmental Information (253)	39
Medical Information (254)	10
Poison Informtaion (256)	5
Other Information (259)	4

Table 3 displays information about the different substances reported on each case record. Each case can have multiple substances reported. The table displays the substances called about by day and total times substance was reported on an Exposure or Information case record. The uptick in case records related to Benzene and Smoke occur on Mar 21 after the shelter in place was issued.

Table 3

	Admin Info	Benzene	Carbon Monoxide	Ethylene Dichloride	General / Unknown	Hydro - Carbon	Indoor Air Quality	Naptha	Poison Info	Smoke	Toluene	Xylene	**Total**
03/17/2019	0	0	0	0	0	1	0	0	0	0	0	0	**1**
03/18/2019	0	0	1	0	1	0	0	3	0	1	2	3	**11**
03/19/2019	0	0	1	1	0	1	1	1	0	3	1	2	**11**
03/20/2019	0	5	0	0	0	0	0	3	0	0	3	3	**14**
03/21/2019	0	42	1	0	0	0	0	0	0	49	0	0	**92**
03/22/2019	0	31	1	0	0	0	0	0	0	21	0	0	**53**
03/23/2019	0	4	6	0	0	0	0	0	1	8	0	0	**19**
03/24/2019	0	6	1	0	0	0	0	0	0	1	0	0	**8**
03/25/2019	0	9	0	0	0	0	0	0	0	4	0	0	**13**
03/26/2019	1	1	0	0	0	0	0	0	0	7	0	0	**9**
03/27/2019	0	3	0	0	0	0	0	0	0	0	0	0	**3**
Total	**1**	**101**	**11**	**1**	**1**	**2**	**1**	**7**	**1**	**94**	**6**	**8**	**234**
Exposure Call	0	84	11	1	1	2	0	5	0	89	4	6	203
Information Call	1	17	0	0	0	0	1	2	1	5	2	2	31

Table 4 relates to Exposure calls only:

Table 4: Exposure Site by Exposure Reason					
	Unintentional General	Unintentional Environmental	Unintentional Occupational	Adverse reaction	**Total**
Own residence	13	112	0	1	**126**
Other residence	1	3	0	0	**4**
Workplace	0	6	8	0	**14**
School	0	1	0	0	**1**
Public area	0	22	3	0	**25**
Other	0	3	0	0	**3**
Unknown	0	2	0	0	**2**
Total	**14**	**149**	**11**	**1**	**175**

- Please continue to share the Poison Control Center phone # 800-222-1222 concerning possible exposures.
- Poison Centers can also be of consultative services for Unified Command.

Contact Personnel:

S. David Baker, PharmD, DABAT, FAACT
Managing Director Central Texas Poison Center
Interim Managing Director Southeast Texas Poison Center
PCCC Vice Chair
Office – 254.724.7409
David.Baker@BSWHealth.org

Message

From: Linda D. Primrose [lprimrose@iterm.com]
Sent: 3/27/2019 1:39:35 AM
To: Mason, Steve [mason.steve@epa.gov]; Kendra.Bernhagen@tceq.texas.gov; spill12@tceq.texas.gov
CC: Dustin White [dwhite@responsegroupinc.com]; John Pasquier [jpasquier@responsegroupinc.com]
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval
Attachments: Incident Documentation Plan.docx

Steve and Kendra,

Thanks for meeting with me. Please see the attached revised plan. I moved a few things around on the second page and added the language we discussed at the top.

Let me know if you have any questions or comments.
Thanks
Linda

Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Linda D. Primrose
Sent: Tuesday, March 26, 2019 7:53 PM
To: 'Mason, Steve'; John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve,

Does the attached revised draft address EPA's concerns (see new paragraph on pg. 2 starting with "To the extent").

Thanks
Linda

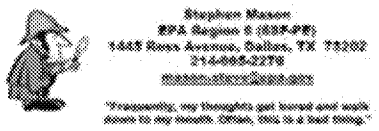
Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Tuesday, March 26, 2019 6:54 AM
To: John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Linda D. Primrose; Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

John, while EPA believes a documentation retention plan is appropriate for all documents that are developed and approved by the Unified Command, EPA would not be able to support a plan that asks for all notes, memos, etc.

We expect we will be placed under a litigation hold, which would preclude us from sharing those items…

With Regards, Steve



From: John Pasquier <jpasquier@responsegroupinc.com>
Sent: Monday, March 25, 2019 10:19 PM
To: Kendra.Bernhagen@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>
Cc: Linda D. Primrose <lprimrose@iterm.com>; Dustin White <dwhite@responsegroupinc.com>
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Good evening,

Please see attached for the 2nd 80s Fire Incident Documentation Plan for review and approval.

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

PLAN COVER PAGE

2nd 80s Fire Incident Documentation Plan

Plan Title

Linda D. Primrose

Submitted by (Name)

Legal Officer

Submitted by (Position)

Tuesday, 26 March, 2019

Date of Submission

Legal Review: Yes/No Reviewed by:

APPROVED BY COMMAND

Incident Commander	Date
Federal On Scene Coordinator	Date
State On Scene Coordinator	Date
Local On Scene Coordinator	Date

This plan applies to Intercontinental Terminals Company LLC, its contractors, and any document generated and approved by the Unified Command.

Nothing in this plan shall (1) expand the scope of confidentiality, (2) relieve Intercontinental Terminals Company LLC of its obligation to release information pursuant to applicable law and implementing regulations, or (3) relieve members of the Unified Command of their respective obligations to preserve and retain documents under their own respective authorities.

Preserve and retain all documents

A document is any form of recorded information created or maintained for use at a later date.

For ease of retrieval, please retain any documents created electronically in a dedicated .PST file.

Documents can include (but are not limited to) the following:

- Completed ICS forms, memos, letters, handwritten notes (including those on calendars, note pads, etc.)
- Reports, facsimiles
- Maps, graphs, charts
- Data, records, microfilm, microfiche, physical objects, videos, voice messages and other recorded messages
- Electronic data such as emails, email attachments, computer files, databases, spreadsheets, tapes, tape-recorded conversations, computer disks or tapes
- Electronic data on removable media devices (USB/flash drives), floppy disks, CD-ROMs, DVDs, instant/text messages, laptops, PDAs, etc. (including any document related to the incident created on a personal item listed above)

Originals, drafts, handwritten notes, and copies will need to be retained.

Baskets/boxes will be made available for submission of all documents to the Documentation Unit.

ASSUME your documents will become public. THINK before you write!

- Be Factual
- Be Specific
- Do not use subjective and vague personal impressions
- Avoid speculation and/or rumors

DOCUMENTATION UNIT PROCESS

1. All documents delivered to the Documentation Unit must include the Incident Name
2. Ensure all original documents generated by individuals or Sections have a signature, date and time when delivered to the Documentation Unit.
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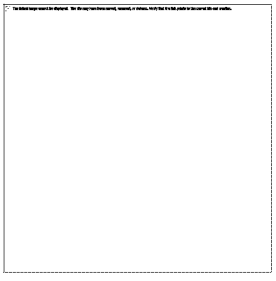
   a. ALL Unit and Individual Logs must be filed with the Documentation Unit at the end of the incident. The Unit Leader (or designated Unit member) will be responsible for delivering relevant 214 and 214a to the Documentation Unit.
   b. Blank forms are available at the Documentation Unit area.
4. All task/support plans and IAP must be approved by the Incident Commander, signed, dated and time-indicated before submission to the Documentation Unit.
5. If you print to a printer located within the Documentation Unit area, please make an extra copy and leave it with the Documentation Unit in the receptacle provided.
6. The Documentation Unit will provide copy services, as well as, file and retain all original documents.
7. Suggested hard copy documentation filing strategies include, but are not limited to:
   a. Air, water, and soil sampling results
   b. Tank farm recovery operations
   c. Ditch recovery operations
   d. Surface water recovery operations
   e. GRP sensitive sites
   f. Waste management
8. Electronic documentation filing strategy:
   a. Contact Nicholas Lambron for Shared Drive access at 832-414-3587 or [HYPERLINK "mailto:nlambron@iterm.com"].
   b. Files stored on Shared Drive
   c. File structure organization consistent with hard copy

Message

From: Hawes, Jenniffier [Jenniffier.Hawes@dps.texas.gov]
Sent: 3/29/2019 2:38:29 AM
To: kendra.bernhagen@tceq.texas.gov
Subject: Fwd: FOUO - EOC Activation Level III Increased Readiness Update #18 Thursday 1630
Attachments: ATT00001.txt

Jenniffier Shields Hawes
District Coordinator, Field Response Section
DDC 16, Houston
Texas Division of Emergency Management
Texas Homeland Security
Texas Department of Public Safety
O: 281-517-1317
M: 281-642-0312
F: 281-517-1310
Jenniffier.hawes@dps.texas.gov
www.txdps.state.tx.us/dem



Begin forwarded message:

From: "Sloan, Mark T. (HCOHSEM)" <mark.sloan@oem.hctx.net>
Date: March 28, 2019 at 4:57:55 PM CDT
To: OEM All Personnel <OEMAllPersonnel@hctx.net>, "Eldridge, Doug (US)" <Doug.Eldridge@cts.hctx.net>, "Christensen, Laurie (Fire Marshal's Office)" <Laurie.Christensen@fmo.hctx.net>, "Bolton, James (Fire Marshal's Office)" <James.Bolton@fmo.hctx.net>, "Reed, Rodney (Fire Marshal's Office)" <Rodney.Reed@fmo.hctx.net>, "McClendon, Michael (PHES)" <Michael.McClendon@phs.hctx.net>, "Lindner, Jeffrey (Flood Control)" <Jeff.Lindner@hcfcd.hctx.net>, "Justice, Jeremy (Flood Control)" <Jeremy.Justice@hcfcd.hctx.net>, "High, Bruce (US)" <Bruce.High@cts.hctx.net>, "Massie, Dinah" <Dinah.Massie@houstontranstar.org>, "Kester, David (Budget Management)" <David.Kester@bmd.hctx.net>, Lori Upton <Lori.Upton@setrac.org>, "Kiger, Jennifer (PHES)" <Jennifer.Kiger@phs.hctx.net>, "Petty, Thomas (CAO)" <Thomas.Petty@cao.hctx.net>, "Gaskins, Mark (US)" <Mark.Gaskins@cts.hctx.net>, Michael Riggs <Michael.Riggs@ridemetro.org>, "Hawes, Jenniffier" <Jenniffier.Hawes@dps.texas.gov>, "Wilkerson, Stuart (ITC)" <Stuart.Wilkerson@cts.hctx.net>, "Royall, Bob (Fire Marshal's Office)" <Bob.Royall@fmo.hctx.net>, "Kinnard-Bing, Marcus (HCSO)" <Marcus.Kinnard-Bing@sheriff.hctx.net>, "Scott, Deon J CDR" <Deon.J.Scott@uscg.mil>, "Edwards, Zachery S CIV" <Zachery.S.Edwards@uscg.mil>, "'Nunez, Sarah G. MAJ'" <sarah.nunez@txsg.state.tx.us>, "Cambric, Joyce (Budget Management)" <Joyce.Cambric@bmd.hctx.net>, "Owens, Erika (Budget Management)" <Erika.Owens@bmd.hctx.net>,

"Maltos, Tina (Budget Management)" <Tina.Maltos@bmd.hctx.net>, "Foster, Brian (US)" <Brian.Foster@cts.hctx.net>, Lisa Spivey <lisa.spivey@setrac.org>, "Silva, Lucinda (Budget Management)" <Lucinda.Silva@bmd.hctx.net>, "Macha, Michael" <Michael.Macha@HQ.DHS.GOV>, "Hebert, James (US)" <James.Hebert@cts.hctx.net>, "Hill, Craig (PCS)" <Craig.Hill@pcs.hctx.net>, "Allen, Bob (PCS)" <Bob.Allen@pcs.hctx.net>, "'Cary, Richard'" <richard.cary@HQ.DHS.GOV>
Subject: FOUO - EOC Activation Level III Increased Readiness Update #18 Thursday 1630

CAUTION: This email was received from an EXTERNAL source, use caution when clicking links or opening attachments.
If you believe this to be a malicious and/or phishing email, please send this email as an attachment to SPAM@dps.texas.gov.

All:
FOUO – For Official Use Only not for further distribution

The Harris County Office of Homeland Security & Emergency Management (HCOHSEM) is activated at Level III Increased Readiness. **EOC briefings will only be at 1330 daily. Staffing at the EOC will continue to be evaluated. We will stop serving meals after Friday night, so you are assigned over the weekend at the EOC please plan to bring food or run out to a local eatery.**

Situation Update Thursday, March 28, 2019

ITC Facility: According to the Harris County Fire Marshal's Office (HCFMO), pumping on tank 80-13 are complete. A 5-day plan to remove all additional products from the facility are underway.

Public Health: There continues to be a low health risk for the community. HC Public Health and HC Pollution Control continue coordinating the air and water monitoring. To help answer any health-related questions, the Ask My Nurse hotline by Harris Health System remains open from 8 a.m. to 8:30 p.m., seven days a week. The number is 713-634-1110.

Air Quality Update: Harris County Public Health and Harris County Pollution Control, continue to analyze air quality readings in real time. Harris County HazMat, and the City of Houston HazMat teams have returned to normal operations. 6th CTS remains at the Command Post to provide assistance if needed. Additionally, HCPC, ITC, TCEQ and 6CST continue collecting water and soil and sediment samples at various sites throughout the county.
DSHS has updated its fish consumption advisory for the upper Houston Ship Channel and now recommends no one eat any species of fish or crab from the ship channel or San Jacinto River north of the State Highway 146 Fred Hartman Bridge.

Weather: No significant weather is expected. South to Southeast winds 10 – 15 mph. Slight chances of rain in the forecast on Friday morning, but no significant rainfall is expected. Better shower and thunderstorm chances over the weekend. A cold front will push into the area late Saturday.

Roads:
Independence Pkwy @ 225 is closed.
1800 Tidal Road remains closed.
Lynchburg Ferry is closed to the public. Commissioner Precinct 2 staff will reevaluate the status of the Lynchburg Ferry after 1000.
NOTE: The Washburn Tunnel will be closed for maintenance beginning March 29th at 0800 to April 8th at 1600. Alternate routes will need to be used during this time. Miller cut-off road have re-opened.

Schools: All school districts are open.

Parks: As a precaution, Harris County Commissioner Precinct 2 has closed the following parks with waterfronts in the ITC incident area. Scheduled events at these parks are cancelled until further notice:

- Bay Area Park in Houston
- Clear Lake Park in Seabrook
- Sylvan Beach in La Porte
- Juan Seguin in La Porte
- Rio Villa Nature Trail
- Meadow Brook
- River Terrace
- Moncrief Park

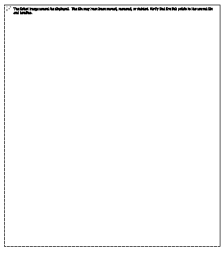
Based on preliminary results from TCEQ and the Galveston Bay Foundation Water Sampling, the Baytown Nature Center is re-opening.

All Harris County departments must continue to track time on D-Time Sheets for staff responding to and/or supporting this incident. Additionally, track all costs/purchases directly related to this incident.

Recovery operations at the site are on-going. We continue to monitor for secondary incidents that may occur during this operation. Once the uncontained product is removed or there is no longer an anticipated risk to public safety we will review EOC staffing requirements.

Actions:
No Additional Partners are being requested at this time.

Updates will be sent as needed.



Mark Sloan
Coordinator
Harris County Office of Homeland Security and Emergency Management
713-881-3100
Websites: ReadyHarris.org | Download our App www.harriscountycitizencorps.com
Twitter | Facebook | Instagram

The information contained in this communication is CONFIDENTIAL and is intended only for the recipient(s) named above. If you are not an intended recipient, you may not review, copy, or distribute this message

Message

From: Linda D. Primrose [lprimrose@iterm.com]
Sent: 3/27/2019 12:52:34 AM
To: Mason, Steve [mason.steve@epa.gov]; John Pasquier [jpasquier@responsegroupinc.com]; Kendra.Bernhagen@tceq.texas.gov
CC: Dustin White [dwhite@responsegroupinc.com]
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval
Attachments: Incident Documentation Plan.docx

Steve,

Does the attached revised draft address EPA's concerns (see new paragraph on pg. 2 starting with "To the extent").

Thanks
Linda

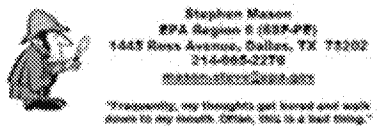
Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Tuesday, March 26, 2019 6:54 AM
To: John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Linda D. Primrose; Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

John, while EPA believes a documentation retention plan is appropriate for all documents that are developed and approved by the Unified Command, EPA would not be able to support a plan that asks for all notes, memos, etc.

We expect we will be placed under a litigation hold, which would preclude us from sharing those items…

With Regards, Steve



From: John Pasquier <jpasquier@responsegroupinc.com>
Sent: Monday, March 25, 2019 10:19 PM
To: Kendra.Bernhagen@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>
Cc: Linda D. Primrose <lprimrose@iterm.com>; Dustin White <dwhite@responsegroupinc.com>
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Good evening,

Please see attached for the 2nd 80s Fire Incident Documentation Plan for review and approval.

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

PLAN COVER PAGE

2nd 80s Fire Incident Documentation Plan

Plan Title

Linda D. Primrose

Submitted by (Name)

Legal Officer

Submitted by (Position)

Tuesday, 26 March, 2019

Date of Submission

Legal Review: Yes/No Reviewed by:

APPROVED BY COMMAND

Incident Commander (Responsible Party)	Date
Federal On Scene Coordinator	Date
State On Scene Coordinator	Date
Local On Scene Coordinator	Date

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To the extent any members of the Unified Command have issued, or reasonably anticipate issuing, a legal hold related to the 2nd 80s Fire Incident, such member may withhold notes, memos, and similar documents; provided such documents are preserved and retained pursuant to the legal hold.

ASSUME your documents will become public. THINK before you write!

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- Be Specific
- Do not use subjective and vague personal impressions
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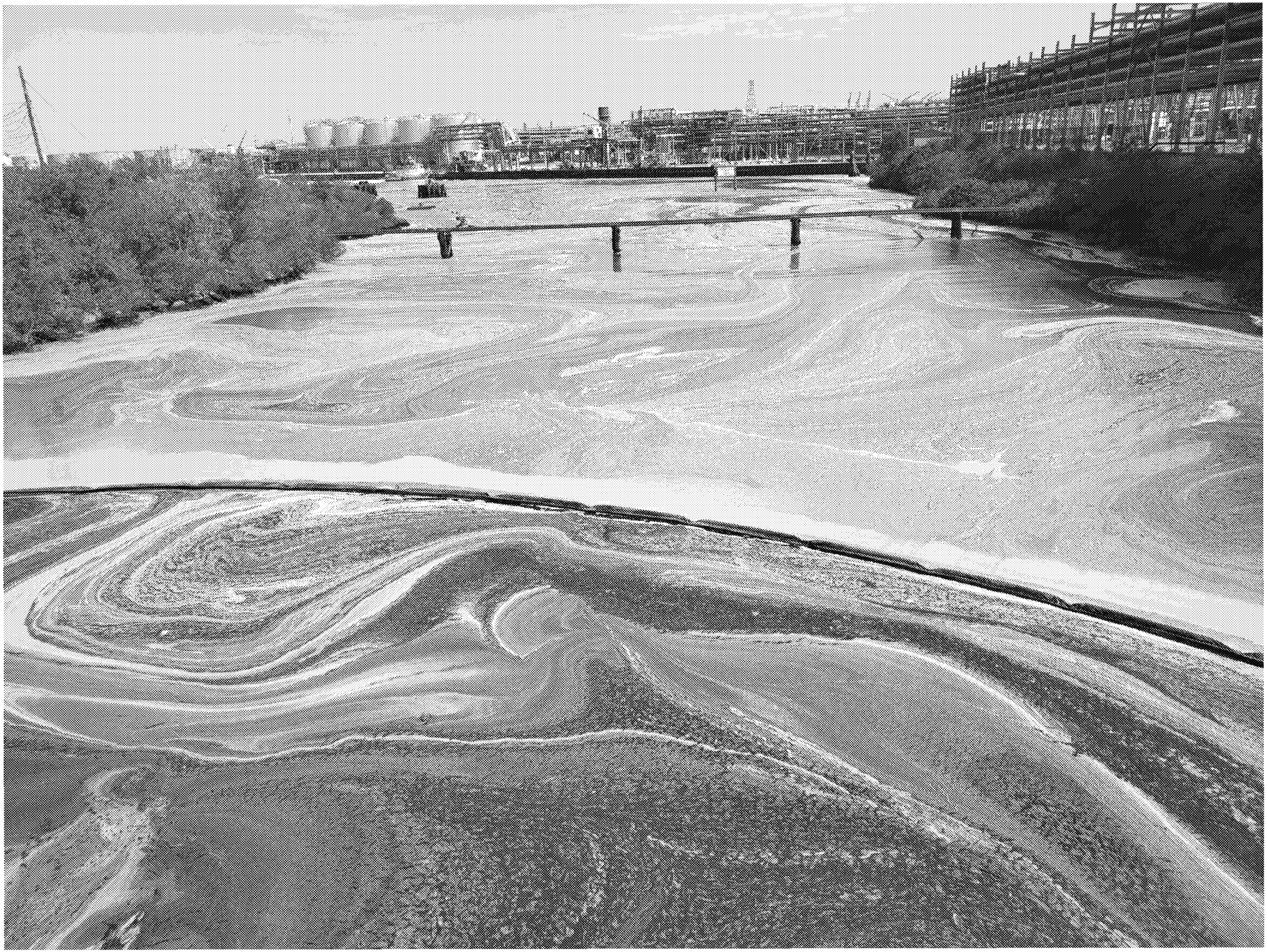
   a. Contact Nicholas Lambron for Shared Drive access at 832-414-3587 or [HYPERLINK "mailto:nlambron@iterm.com"].
   b. Files stored on Shared Drive
   c. File structure organization consistent with hard copy

Message

From: Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]
Sent: 3/21/2019 1:12:16 AM
To: Mason, Steve [mason.steve@epa.gov]
CC: mgaudet@iterm.com
Subject: Fw:
Attachments: IMG_1599.jpg; ATT00001.txt; IMG_1600.jpg; ATT00002.txt; IMG_0019.JPG; ATT00003.txt

---

From: spill12
Sent: Wednesday, March 20, 2019 8:06 PM
To: spill12
Cc: Kendra Bernhagen
Subject:



ED_002627_00017353-00001

ED_002627_00017354-00001

ED_002627_00017355-00001

Message

From: Linda D. Primrose [lprimrose@iterm.com]
Sent: 3/28/2019 7:59:33 PM
To: Mason, Steve [mason.steve@epa.gov]; Kendra.Bernhagen@tceq.texas.gov; spill12@tceq.texas.gov
CC: Dustin White [dwhite@responsegroupinc.com]; John Pasquier [jpasquier@responsegroupinc.com]
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve and Kendra,

Please see below. Any follow-up?

Thanks
Linda

Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC
Mobile: 346.263.8228

From: Linda D. Primrose
Sent: Tuesday, March 26, 2019 8:40 PM
To: 'Mason, Steve'; 'Kendra.Bernhagen@tceq.texas.gov'; 'spill12@tceq.texas.gov'
Cc: 'Dustin White'; 'John Pasquier'
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve and Kendra,

Thanks for meeting with me. Please see the attached revised plan. I moved a few things around on the second page and added the language we discussed at the top.

Let me know if you have any questions or comments.
Thanks
Linda

Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Linda D. Primrose
Sent: Tuesday, March 26, 2019 7:53 PM
To: 'Mason, Steve'; John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Steve,

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Linda D. Primrose | VP & General Counsel
Intercontinental Terminals Company LLC

From: Mason, Steve [mailto:mason.steve@epa.gov]
Sent: Tuesday, March 26, 2019 6:54 AM
To: John Pasquier; Kendra.Bernhagen@tceq.texas.gov
Cc: Linda D. Primrose; Dustin White
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

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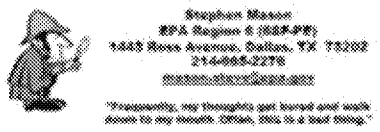

From: John Pasquier <jpasquier@responsegroupinc.com>
Sent: Monday, March 25, 2019 10:19 PM
To: Kendra.Bernhagen@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>
Cc: Linda D. Primrose <lprimrose@iterm.com>; Dustin White <dwhite@responsegroupinc.com>
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Good evening,

Please see attached for the 2nd 80s Fire Incident Documentation Plan for review and approval.

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/26/2019 11:53:53 AM
To: John Pasquier [jpasquier@responsegroupinc.com]; Kendra.Bernhagen@tceq.texas.gov
CC: Linda D. Primrose [lprimrose@iterm.com]; Dustin White [dwhite@responsegroupinc.com]
Subject: RE: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

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With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

From: John Pasquier <jpasquier@responsegroupinc.com>
Sent: Monday, March 25, 2019 10:19 PM
To: Kendra.Bernhagen@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>
Cc: Linda D. Primrose <lprimrose@iterm.com>; Dustin White <dwhite@responsegroupinc.com>
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval

Good evening,

Please see attached for the 2nd 80s Fire Incident Documentation Plan for review and approval.

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

Message

From: Smith, Monica [smith.monica@epa.gov]
Sent: 3/21/2019 9:19:28 PM
To: Mason, Steve [mason.steve@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]
Subject: FW: 80-7

Monica Smith
Chief,
Planning, Prevention, Readiness & Response Section (6SF-EA)
214-665-6780 office
469-766-3398 cell
smith.monica@epa.gov

From: Loesel, Matthew
Sent: Thursday, March 21, 2019 4:17 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>
Subject: FW: 80-7

Matthew Loesel
US Environmental Protection Agency
Federal On-Scene Coordinator
(w) 214-665-8544
(c) 214-738-0674
Loesel.matthew@epa.gov

From: Adams, Adam
Sent: Thursday, March 21, 2019 4:16 PM
To: spill12@tceq.texas.gov; anthony.buck@tceq.texas.gov
Cc: Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>
Subject: Fwd: 80-7

Sent from my iPhone

Begin forwarded message:

> **From:** Mike Gaudet <MGaudet@iterm.com>
> **Date:** March 21, 2019 at 4:13:16 PM CDT
> **To:** "adams.adam@epa.gov" <adams.adam@epa.gov>, ITC Incident <itcincident@iterm.com>
> **Cc:** "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, "David Wascome" <Dwascome@iterm.com>, Brent Weber <bweber@iterm.com>
> **Subject: 80-7**

Plan is to use an submersible pump to transfer product from Tank 80-7 to Tank 80-18. Anticipated start of transfer is 1700 – 1800 (approximate). If installation is effective, anticipated initial pump rate is 1000 gpm, higher rates are possible once pumping is established. Total transfer expected to be completed sometime Friday morning.

Michael Gaudet
Environmental Compliance Manager
Intercontinental Terminals Company LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0360
C: 281.787.8256
mgaudet@iterm.com

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 3/26/2019 10:49:04 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: FW: 2nd 80s Fire: Water Product and Foam Sampling Plan
Attachments: Draft Water Product and Foam Sampling Plan Deer Park 23Mar2019.pdf

From: Helen Dubach <hdubach@ctehrm.com>
Sent: Sunday, March 24, 2019 6:18 PM
To: adams.adam@epa.gov; spill12 <spill12@tceq.texas.gov>; plans@hcoem.net
Cc: Jeffrey Wakefield <Jeffrey.Wakefield@cardno.com>
Subject: 2nd 80s Fire: Water Product and Foam Sampling Plan

For review. Please provide any comments or questions to me or Jeff Wakefield (copied).

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: Loesel, Matthew [loesel.matthew@epa.gov]
Sent: 3/20/2019 11:06:22 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: FW: 20190320_20 Mar 19 - Water Analysis
Attachments: HS19030901 Gate 13 ditch COD and O&G results.pdf; HS19030901 Gate 13 ditch VOC data.pdf

Matthew Loesel
US Environmental Protection Agency
Federal On-Scene Coordinator
(w) 214-665-8544
(c) 214-738-0674
Loesel.matthew@epa.gov

From: spill12 <spill12@tceq.texas.gov>
Sent: Wednesday, March 20, 2019 5:21 PM
To: nicole.d.rodiguez@uscg.mil; Loesel, Matthew <loesel.matthew@epa.gov>
Subject: Fw: 20190320_20 Mar 19 - Water Analysis

From: Mike Gaudet <MGaudet@iterm.com>
Sent: Wednesday, March 20, 2019 4:42 PM
To: Adams.adam@epa.gov; spill12; Mason, Steve; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe; b.latham@WestonSolutions.com; uscgimdhouston@gmail.com; Nicole Bealle; Alma Jefferson; Guadalupe Quiroz; Andy Goodridge; karina.roche@tceq.texas.gov; westin.massey@tcew.texas.gov; nicole.d.rodriguez@uscg.mil
Cc: harrison.reback@bakerbotts.com; matthew.kuryla@bakerbotts.com; Mike Taylor; Reid McLelland; Mike Gaudet; mark.hamlin@bakerbotts.com
Subject: 20190320_20 Mar 19 - Water Analysis

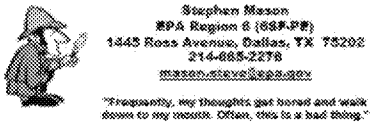
Here is the first set of sample results from the roadside ditch along Tidal Road. The SVOC results have not been received from the lab at this time.

Michael Gaudet
Environmental Compliance Manager
Intercontinental Terminals Company LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0360
C: 281.787.8256
mgaudet@iterm.com

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/26/2019 10:46:39 AM
To: Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]; spill12 [spill12@tceq.texas.gov]
Subject: FW: Signed CTEH Air Monitoring SAPs for ITC Tank Fire
Attachments: Air SAP Version 1.3 - Community Monitoring and Site Assessment.pdf; ATT00001.htm; Work Area Air SAP Version 1.1.pdf; ATT00002.htm

With Regards, Steve



From: Adams, Adam
Sent: Tuesday, March 26, 2019 5:39 AM
To: Mason, Steve <mason.steve@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Smalley, Bryant <smalley.bryant@epa.gov>; Patel, Anish <patel.anish@epa.gov>
Subject: Fwd: Signed CTEH Air Monitoring SAPs for ITC Tank Fire

Sent from my iPhone

Begin forwarded message:

> **From:** "Scott Malm" <smalm@cteh.com>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>
> **Subject: Signed CTEH Air Monitoring SAPs for ITC Tank Fire**
>
> Good morning Adam,
>
> Please see attached for copies of CTEH air sampling and analysis plans signed by unified command members for the ITC Tank Fire response. I dropped off hard copies with Matt yesterday, I think I had just missed you. Please let me know if you have any questions or if you need these sent somewhere else and I'll get that taken care of right away.
>
> Thanks very much,
>
> **Scott Malm, Ph.D.**
> Toxicologist
> CTEH, LLC
> Office: 501-801-8614 | Mobile: 501-800-6729
> Emergency Response 24-Hour Hotline: +1(866) 869-2834
> smalm@cteh.com |www.cteh.com

Incident Event Log	Version Name: Overall
Incident Name: 2nd 80's Fire	

Activity Log

Date/Time	*Events/Notes*
03/24/2019 22:59	Vac truck operations at Tucker Bayou report from 1900-2300: 9-130bbls vac trucks and 2-70bbls vac trucks; total of 1,310 bbls of oily/water mix offloaded into Tank 100-28
03/24/2019 21:59	NRC Admiral requesting CTEH monitor.
03/24/2019 21:57	Tank Farm Operations - Foam Operations complete.
03/24/2019 21:41	Tank Farm Operations - Foam update: 220 totes, 24 drums, 32 - 5 gallon buckets.
03/24/2019 21:32	Tank Farm Operations - Foam Operations begin.
03/24/2019 21:30	Tank Farm Operations: Drone landed from IR overflight.
03/24/2019 21:13	Air Monitoring Detection Report: Benzene Div A - 5 - readings between .45 - 11.3 ppm Div B - 12 - readings between .05 - 11.75 ppm Div C - 5 - readings between .075 - 2.75 ppm Div D - 0 Div E - 58 - Highest reading was 64.4 ppm Industrial Area - 13 readings between 0.1 - 2.325 ppm Impacted tank farm - 13 readings between 0.1 - 33.75 ppm Butadiene: Div E - 13 readings between .08 - 1.35 ppm
03/24/2019 21:09	Tank Farm Operations: Drone takeoff for IR overflight.
03/24/2019 21:00	Report that an individual called in with a report of foam and foam residue at Houston Fuel Oil. Contacted the individual and it was a wrong number given prior.
03/24/2019 20:36	Report received of possible exposure of crew member from Buffalo Marine on the San Rafael vessel located at Bostco. POC Shanna Castanie (713) 923-5571.
03/24/2019 20:32	Tank Farm Operations: Foaming Operations on the North Side & South Side complete.
03/24/2019 20:28	Tank Farm Operations: 17 totes of foam arrived.
03/24/2019 20:19	Tank Farm Operations: Foaming Operations on the North Side complete.
03/24/2019 19:57	On Water Operations - NRC 10 vessels, 30 responders doing skimming, booming with Clean Channel barges in Divisions B & C.
03/24/2019 19:55	Tank Farm Field Operations - Night Ops manpower 45 ITC personnel & 73 contractors
03/24/2019 19:25	Tank Farm Operations: Current rate of 2,500bbls/hr out of 80-7 & 80-14.
03/24/2019 18:21	Tank Farm Field Operations - Foaming of tanks commences
03/24/2019 18:07	Tank Farm Field Operations - 80-7 offloading rate=850 bbl/hr, 80-14=600 bbl/hr
03/24/2019 17:26	RAT Team deployed to Patrick Bayou for assessment of product. Silver sheen verified outside of boom.
03/24/2019 17:10	Tank Farm Field Operations - Suspended foaming of tanks
03/24/2019 17:06	Opening San Jacinto to outbound towing traffic. They should be met by a small boat to do a loop around. Vessel to inspect for pollution then approve them to pass.
03/24/2019 15:49	Tank Farm Field Operations - Foam count update: 158 totes, 23 drums and 26 5 gallon buckets
03/24/2019 15:38	OXY reports product down Patrick's Bayou.
03/24/2019 15:33	Cowgill Incorporated calls for update on benzene readings (16150 Peninsula St.)
03/24/2019 15:15	Tank Farm Field Operations - Power restored ITC Admin building
03/24/2019 15:15	Tank Farm Field Operations - Pumping started
03/24/2019 15:10	Tank Farm Field Operations - Power lost at ITC Admin building, comms contunue
03/24/2019 14:54	Tank Farm Field Operations - US Fire Pump pers have freed the boom arm suspended subsmersible pump and have identified a deeper sump area to change placement
03/24/2019 14:47	Tank Farm Field Operations - US Fire Pump pers in manlift over tank 80-7 to inspect submersible pump
03/24/2019 13:48	Tank Farm Field Operations - Second Matisse drone flight terminated due to foaming operation

03/24/2019 13:45	Tank Farm Field Operations - Foaming of west tank farm began @ 13:45
03/24/2019 13:35	Tank Farm Field Operations - Second flight Matrisse Drone commencing
03/24/2019 13:34	Admiral and Sheila Jackson Lee deployed for an overflight.
03/24/2019 13:30	Tank Farm Field Operations - Leakage detected in the tank farm wall repair, low in the wall structure
03/24/2019 13:09	Tank Farm Field Operations - Matrisse Drone operational and flying
03/24/2019 12:55	4 crew members evacuated Vessel Betty L. Reporting party J.A.M. Distributing.
03/24/2019 11:51	SCAT: Product spotted outside of the divisions by Peggy Lake (60'x60').
03/24/2019 11:33	OMI reports 756 gallons (18 bbls) recovered of product.
03/24/2019 11:30	Vessel traffic operator calls Situation regarding booming of San Jacinto.
03/24/2019 10:42	NRC Admiral currently deployed and actively conducting sweeps with sorbent boom and operating weir skimmers. Recovery from skimmers is 90-95% water mixed with product.
03/24/2019 10:42	Foam deployment complete.
03/24/2019 10:15	Foam deployment commenced on tanks.
03/24/2019 10:13	Tank Farm Field Operations - Drone flight terminated due to battery. Switch to Matrisse Drone after a foam application
03/24/2019 09:32	Tank Farm Field Operations - Drone flying now over tank farm
03/24/2019 09:07	Tank Farm Field Operations - KLumpkin and PPritchard ARR FOB - Independence for field support
03/24/2019 08:59	American Commercial Barge Line (ACBL) resports oil slick in Carpenters Bayou.
03/24/2019 07:00	Hot Zone Established at 4 dock.
03/24/2019 06:40	Foam deployment commenced on tanks.
03/24/2019 05:24	Initial Response: Dow Chemical reporting a air monitor reading of 7.6 and they are sheltering in place.
03/24/2019 05:12	Initial Response: Update: 14,634 bbls in tank 100-28 from vac truck operations in ditch.
03/24/2019 05:06	Initial Response: Fire Boats reporting reading of 7.62 reading of Benzene located across from Cargill. (@11 and 12 dock)
03/24/2019 04:52	Initial Response: NRC Admiral to stay at the battle ship being air monitor readings are below .1 at that location and they currently don't have enough ppe.
03/24/2019 04:45	Initial Response: 12 additional totes of foam arrived. Total of 180 totes, 20 drums & 120 5-gallon buckets.
03/24/2019 04:44	Initial Response: Starting foam application
03/24/2019 04:42	Initial Response: Drone landed from IR overflight of tank 80-7 and checking hot spots between 80-2, 80-3 & 80-6.
03/24/2019 04:27	Initial Response: Drone IR overflight of tank 80-7 to view product volume within tank. Checking hot spots between 80-2, 80-3 & 80-6.
03/24/2019 04:22	Initial Response: Drone landed from IR overflight of boom arm vacuum operation of tank 80-7.
03/24/2019 04:21	Initial Response: Air monitor readings between 3:03 and 4:09 there was 16 readings above .5
03/24/2019 04:19	Initial Response: Update on Foam numbers: 168 totes, 20 drums & 120 5-gallon buckets.
03/24/2019 04:15	Initial Response: 2 inches of liquid in containment area, ~5ft of foam.
03/24/2019 04:00	Initial Response: Drone IR overflight of boom arm vacuum operation of tank 80-7.
03/24/2019 03:38	Initial Response: 15 totes of foam arrived.
03/24/2019 03:38	Initial Response: 15 totes of foam arrived.
03/24/2019 02:31	Initial Response: 14,200 BBLS recovered
03/24/2019 02:24	Initial Response: Drone IR overflight of boom arm vacuum operation is complete.
03/24/2019 02:19	Initial Response: Confirmed pumping has ceased on boom arm vacuum due to boom arm not being able to be moved.
03/24/2019 02:14	Initial Response: Confirmed boom arm vacuum cannot be moved.
03/24/2019 02:13	Initial Response: Starting foaming ops

03/24/2019 02:03	Initial Response: Drone takeoff for IR overflight of boom arm vacuum operations.
03/24/2019 01:58	Initial Response: Total bbls moved out of Tank 80-7: 12,647 bbls. Total volume in Tank 80-18 is 30,657.
03/24/2019 01:47	Initial Response: 11 loads of oily/water mix total from the 130 bbl vac truck at Tucker's Bayou.
03/24/2019 01:27	Initial Response: 28 personnel working on the water
03/24/2019 01:26	Initial Response: .75 detection near Carpenter Bayou & Sheldon rd
03/24/2019 00:56	Initial Response: 371 BBLS per hour --
03/24/2019 00:52	Initial Response: .75 Detection Sheldon / Jacinto Port Blvd
03/24/2019 00:44	Initial Response: 153-totes, 25-drums, 120-5 gallon pales of foam
03/24/2019 00:40	Initial Response: Drone landed
03/24/2019 00:21	Initial Response: Drone airborn
03/24/2019 00:19	Initial Response: Drone preparing to launch
03/24/2019 00:18	Initial Response: Foaming complete south side
03/23/2019 23:57	Initial Response: 8' 2/6 level
03/23/2019 23:43	Initial Response: 1461 bbl per hr on transfer 11-5 8/16th
03/23/2019 23:20	Initial Response: Drone landed
03/23/2019 23:00	Initial Response: Drone in air
03/23/2019 22:59	Initial Response: Light plants arrived
03/23/2019 22:46	Initial Response: Transfer operation stopped
03/23/2019 22:26	Initial Response: FE-2 re-foaming
03/23/2019 22:25	Initial Response: Foam application on southside
03/23/2019 21:44	Initial Response: Drone on stand-by
03/23/2019 21:30	Initial Response: Finished foaming on South side
03/23/2019 21:27	Initial Response: Safety needs SDS fro product in tanks and SDS for form - routed to John - scan to Jessie Devale and Hunter Willis
03/23/2019 21:26	Initial Response: LSC Secured light towers and they are enroute
03/23/2019 21:23	Initial Response: Foaming south side
03/23/2019 21:21	Initial Response: Drone landing for battery change
03/23/2019 21:20	Initial Response: Clean Channel (T&T) Barges Henry T and Bill Spence arrived.
03/23/2019 21:13	Initial Response: Completed foaming
03/23/2019 21:04	Initial Response: Foaming ditch
03/23/2019 20:32	Initial Response: 50 ITC -- 34 Contractors 30 US Pumps
03/23/2019 20:20	Initial Response: Completed foam application on north size 80-7 and on south side
03/23/2019 18:05	Initial Response: Entrainment found in Carpenters Bayou. Notified OMI.
03/23/2019 17:50	Initial Response: Cargill calls EOC regarding air readings. LNO notified.
03/23/2019 17:41	Initial Response: Per Houston Pilots: 26 inbound and 24 outbound commercial ships impacted.
03/23/2019 17:18	Initial Response: 2 vessels evacuated crew members on board (EMS Express - 4 crew members, Good Shepherd - 6 crew members). Both vessels evacauted members due to precaution. No one evacuated due to medical conditions.
03/23/2019 16:41	Initial Response: Tank Transfer Plan approved.
03/23/2019 16:40	Initial Response: Texas Responder arrives at Fred Hartman Bridge.
03/23/2019 16:11	Initial Response: Shell Deer Park Port boomed off by Shell.
03/23/2019 15:52	Initial Response: Kirby Marine personnel (Nathaniel Hough) confirmed evacuated.
03/23/2019 15:09	Initial Response: Texas Responder and NRC Admiral enroute.

03/23/2019 14:00	Initial Response: USCG (Robin Lonnette Vessel) reports sheen in Carpenters Bayou by Target Dock.
03/23/2019 13:45	Initial Response: Stolt Barge Facility on Carpenters Bayou are securing their facility for 24 hours. 9 personnel departed.
03/23/2019 11:30	Initial Response: Decontainment Plan Version 2.0 approved
03/23/2019 10:14	Initial Response: (3) Skimmers are operating in the ship channel, anticipating skimming 22,000bbls/day of water/product (24hr period). Storage barges have been identified for skimmers to offload
03/23/2019 10:01	Initial Response: 8" hose staged, getting actuators open, using trucks to move power unit and pump to southwest corner of tank farm
03/23/2019 08:56	Initial Response: Benzene levels at Dock 4: 4.25ppm
03/23/2019 08:44	Initial Response: Hot Zone has been reduced further south to Park Road 1836 & Independence
03/23/2019 07:00	Initial Response: Situation Status Update: -1 ITC personnel seen at First Aid (Tweak Back) -2 Kirby Marine personnel claiming benzene exposure -US Pump & Fire on site and staging foam and fire fighting equipment -155 drums, 159 totes on site (75 totes enroute today, 75 totes enroute tomorrow) -Building dike wall in tank farm (clay) - Building bridge across ditch -Entities to coordinate air data with IC at 07:45 -IC requesting Org Chart for each entity (Day & Night) -USCG Strike Team enroute (ETA this afternoon) -Repair of 2 24in pipe. Working on a 3rd -Updated Stakeholder Meeting Schedule: 2am, 8am, 2pm, 8pm -Hot Zone changed to north of ship channel -Requesting aerial recon for visuals
03/23/2019 04:14	Initial Response: Re-apply foam blanket at tank farm
03/23/2019 04:05	Initial Response: Containment wall intact
03/23/2019 03:55	Initial Response: 1.7 Benzene reported at Jacinto Port
03/23/2019 02:36	Initial Response: Foam count: 155 drums and 145 totes
03/23/2019 01:08	Initial Response: Conducted IR drone overflight of the tank farm
03/23/2019 00:56	Initial Response: US Fire Pumps delivered 2 Submersible pumps to tank farm
03/22/2019 21:37	Initial Response: Kirby Marine vessel crew reporting strong odors on Carpenters Bayou between Houston Fuel Oil Terminal and Kirby Training Facility. LNO notified TCEQ on complaint.
03/22/2019 20:10	Initial Response: .5 Benzene reading from HFD Fire Boat at Ferry Landing
03/22/2019 18:42	Initial Response: Forward operating base has moved from Training Building, to Traffic Control Building and now to the south side of the plant at the South Office (Administration Office)
03/22/2019 18:25	Initial Response: Reported product leak at D&E track west of tank farm that smells like xylene.
03/22/2019 17:59	Initial Response: Latest Benzene ppm concentration 1.9 at traffic control building
03/22/2019 17:26	Initial Response: Small fire re-ignited on the east side of tank 80-3 in manifold. Foam is being continuously applied.
03/22/2019 17:15	Initial Response: All re-ignited fires extinguished at 17:15
03/22/2019 17:08	Initial Response: USCG overflight is en route
03/22/2019 16:51	Initial Response: Houston fire will keep fire boat on-scene for continued support
03/22/2019 16:49	Initial Response: Grass fire reported in ditch. (2) 250lb extinguishers en route.
03/22/2019 16:46	Initial Response: Suncoast fuel trucks to stage at independence parkway at south side of railroad tracks.
03/22/2019 16:33	Initial Response: National Response Corporation (NRC) en route to support on water recovery operations.
03/22/2019 16:22	Initial Response: Call to evacuate CCR
03/22/2019 16:22	Initial Response: VOPAK standing by with 5" lines to support fire response.
03/22/2019 16:19	Initial Response: Fire boat has arrived at Dock 1.
03/22/2019 16:03	Initial Response: Fire boat enroute to Dock 1.

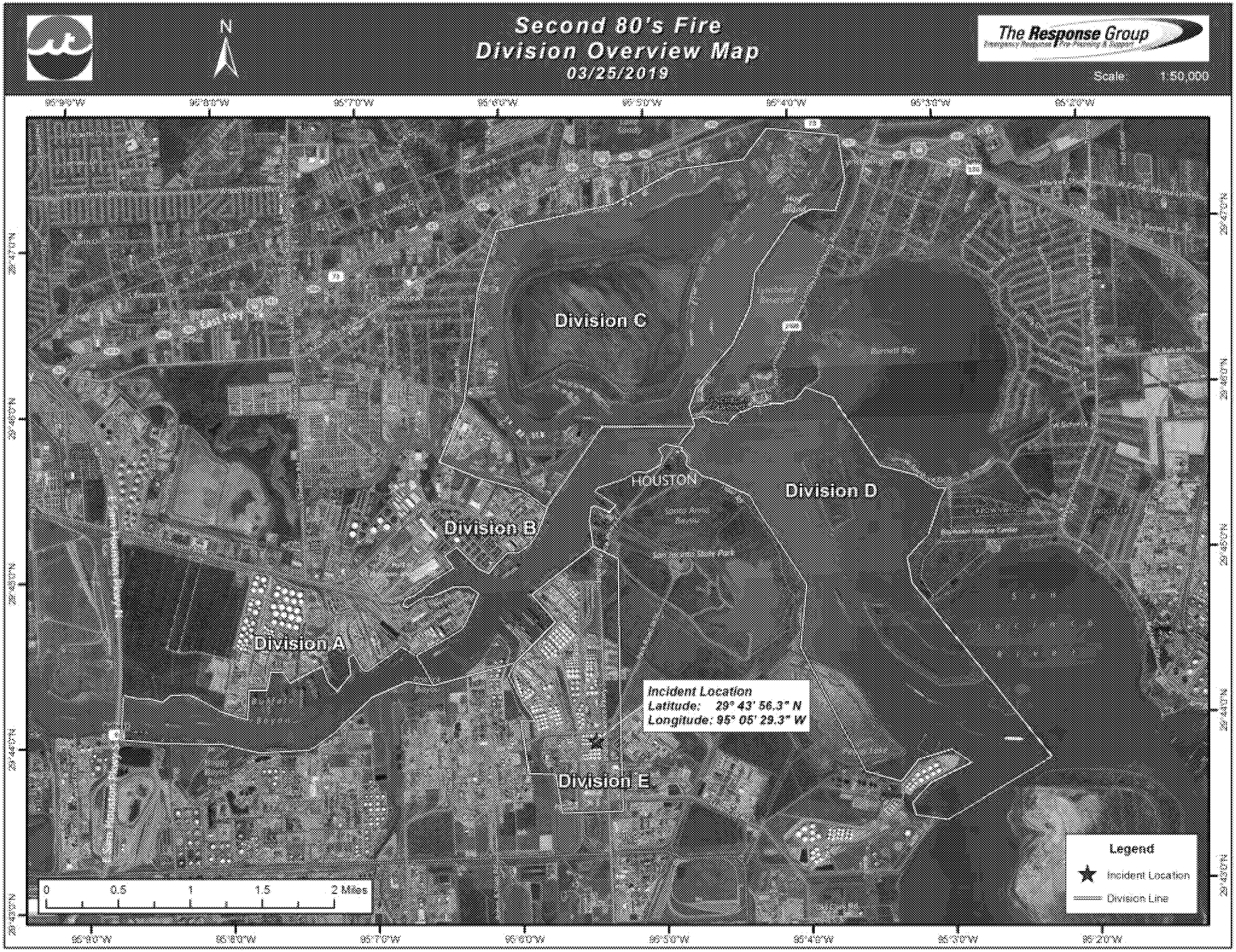
03/22/2019 15:57	Initial Response: Additional hose brought to try and get closer to get foam applied on fire in ditch
03/22/2019 15:54	Initial Response: Ruptured pipe reported in a pipe rack near Tank 80-3
03/22/2019 15:53	Initial Response: Power reported OFF at incident location
03/22/2019 15:51	Initial Response: All personnel at 4 Dock ordered to evacuate
03/22/2019 15:47	Initial Response: Ditch reported to have caught fire outside of tank farm. Fire running down ditch near spheres. Deluge activated on spheres for cooling.
03/22/2019 15:42	Initial Response: Tank farm re-ignited. Tanks 80-5, 80-2, 80-3
03/22/2019 15:34	Initial Response: Smoke reported coming out of tank 80-5.
03/22/2019 15:28	Initial Response: Completed temporary dam in the drainage ditch near Gate 13.
03/22/2019 15:27	Initial Response: Dike wall coffer dam has been completed
03/22/2019 15:22	Initial Response: Started foaming tank 80-7.
03/22/2019 14:38	Initial Response: confirmed till 6 inches of product/foam/water within the tank dike wall
03/22/2019 14:16	Initial Response: Protection booming locations identified(GRPs): -54A -40J -40I -40K -54D -40L (Not enclosing channel, protective boom along shoreline only)
03/22/2019 13:45	Initial Response: Team onsite to begin repairs on the concrete pumper
03/22/2019 13:18	Initial Response: Situation Status Update: -All contractors accounted for. 1 TRG sheltered in place in hot zone. Will be provided PPE and moved to Environmental Building to shelter in place. -Crews focused on recovering spilled material from Tucker Bayou back towards the release point. -OMI protective booming strategies requested 40-1 and 40-L. -NRC spill contractor has been notified for on water recovery operations. -NOAA working on providing a spill trajectory for the ship channel. -Air Quality - 1.5ppm at San Jacinto monument area. Lynchberg Ferry and San Jacinto monument have been shut down. -All impacted neighbors have been notified of the incident.
03/22/2019 13:18	Initial Response: Planned Actions: -Fire fighting capabilities stationed along east side of the tank farm - foam continues to be applied. A coffer dam is being constructed in the ditch. Jersey barriers and sand bags will be used to rebuild the dike wall and provide containment. -Air monitoring will continue -OMI and NRC will work to recover spilled material along Tucker Bayou and on-water in the ship channel.
03/22/2019 13:15	Initial Response: USCG has currently closed the ship channel from DOW to Santa Anna Bayou Inlet.
03/22/2019 13:10	Initial Response: Tony Stamper with NRC has arrived at the dock with OMI.
03/22/2019 13:04	Initial Response: Hot Zone Update: south side of CCR and training building requires full face respirators.
03/22/2019 13:01	Initial Response: Incident command was transferred from Deer Park to Pasadena at 1300
03/22/2019 13:00	Initial Response: SOSC received word that there are 0 readings in Jacinto Point and Sheldon Rd.
03/22/2019 12:55	Initial Response: Sampling teams have been requested to sample areas in Tucker Bayou.
03/22/2019 12:54	Initial Response: EPA and TCEQ approved the press release.
03/22/2019 12:50	Initial Response: Working to provide escape packs for Cotton food service personnel
03/22/2019 12:49	Initial Response: 0.1ppm Benzene, 0 LEL @ Gate 20 6.8ppm Benzene, 0 LEL @ Tucker Bayou
03/22/2019 12:40	Initial Response: Environmental requested to mobilize the UAS drone for video of the containment breach area and boomed area in Tucker Bayou.
03/22/2019 12:35	Initial Response: 4 layers of containment boom are being deployed at 4Y

03/22/2019 12:35	Initial Response: Safety requested air readings in the released area. Safety requested head count for all personnel in the field.
03/22/2019 12:25	Initial Response: Updated E-Notify message and posted.
03/22/2019 12:23	Initial Response: LNO notified neighbors.
03/22/2019 12:23	Initial Response: Notified OMI to boom Tucker Bayou.
03/22/2019 12:05	Initial Response: FOSC requested SCAT/RAT teams to evacuate the area.
03/22/2019 12:00	North dike wall collapsed by tank 80-7. Foam flowing in ditch towards Tucker Bayou.
03/22/2019 11:57	Swamp drains open to get level down.
03/22/2019 11:19	Environmental Defense Fund and Galveston Bay Foundation taking water samples in ship channel.
03/22/2019 10:44	Dixie Chemical reports employees are experiencing headaches and a sweet taste in their mouth. Dixie Chemical Warehouse shutdown.
03/22/2019 10:43	Kirby Marine reporting barges oiled. OMI sent for assessment.
03/22/2019 09:59	TRG UAS personnel deploy to tank farm for acquisition of ortho imagery.
03/22/2019 09:30	Pumping has started at the dike wall for the tank farm into tank 80-18. There is a small leak in the pump hose, a kitty pool has been placed under the hose to contain the leak. Pumping operation will stop to repair hose and recommence.
03/22/2019 09:28	Hot Zone enhanced east to cover Independence Rd.
03/22/2019 09:23	Lifting of the pump for placement for 80-7 product evacuation operation
03/22/2019 08:40	Started vac truck at 80-3 at the dyke wall. About to start de-gassing at 80-18. Once degas machine is on 80-18 we will start the pump truck.
03/22/2019 08:33	United 3 ft gooseneck with hoses arrives.
03/22/2019 08:21	80-18 is ready to begin pumping. Checking pressure on the truck. Moving into position to start suction
03/22/2019 07:43	Road between Tank Farm A & B between MCC 5 & 7 will be closed for the remainder of the day.
03/22/2019 07:42	Stopped foam application on Tank 80-7. Checking ratings prior to commencing pumping/transfer operations.
03/22/2019 07:35	Product removal from 80-7 remains main objective.
03/22/2019 07:25	Having off site impacts. Shutdown at Check Point 2 (Independence and Miller Cutoff).
03/22/2019 07:12	Working on Plan for Tank 80-14 & 80-15.
03/22/2019 07:11	125 totes of foam confirmed on site.
03/22/2019 07:10	Media presentation at 10:00. Requested to do a drive along ship channel. USCG can provide boat.
03/22/2019 07:08	Hydro cutting equipment is en-route to 80-7. Need to confirm ETA.
03/22/2019 07:07	Waste water power restored.
03/22/2019 07:00	Setup mats for area east of tank farm for cranes and equipment.
03/22/2019 06:03	All notifications to neighboring facilities have been made to inform them of the product transfer to begin at approximately 06:30.
03/22/2019 05:25	UAS IR overflight is complete.
03/22/2019 05:15	10.5 ppm benzene reported from air monitor at Tank 80-13.
03/22/2019 05:06	UAS IR overflight of tank farm take off.
03/22/2019 04:55	Foam application complete at tank farm.
03/22/2019 04:45	Flowing foam at tank farm.
03/22/2019 04:37	Received report from Oxy Battle Ground Facility of a reading 140 ppm VOCs at the guard shack. The facility is taking shelter in place. CTEH air monitors confirmed 120 VOC at the same location. Wind direction is from the SW. Oxy facility is down wind.
03/22/2019 04:24	CIMA Unit Log: News media arrived at Check Point 2

03/22/2019 04:20	Envent degasser hooking up. All hydraulic hoses are hooked up. Pumping truck hoses hooked up. Concrete Pumper Truck worker stated will not work until daylight. Transfer operation will not take place until daylight.
03/22/2019 04:08	112 Totes of foam confirmed on site. 18 Totes enroute to arrive at 8:00. 18 additional totes enroute to arrive at 09:00, 18 totes enroute to arrive at 12:00, 86 Drums enroute to arrive at 16:00.
03/22/2019 03:17	Foam complete at tank farm
03/22/2019 03:05	Flowing foam at tank farm
03/22/2019 02:41	Foam totes punctured on Independence Prkwy
03/22/2019 02:19	Conducting drone flight over tank farm
03/22/2019 00:45	Foam complete at tank farm
03/22/2019 00:30	Flowing foam at tank farm
03/21/2019 23:39	CTEH Jason Callahan confirmed no detects at the Watco Facility from the report from PTRA Train Crew.
03/21/2019 23:15	Foam complete at tank farm
03/21/2019 23:01	Flowing foam at tank farm
03/21/2019 22:32	Report from Sherrif's Office: PTRA stated that a train crew reported smelling Benzene at Watco off of Federal Road NW of Incident Location. Wind is blowing to the NE. Sending CTEH to conduct air monitoring to confirm.
03/21/2019 22:19	OMI lining docks 1,2,3 and 4 with sorbent boom behind hard boom
03/21/2019 21:06	Applied fresh foam sweep for tank farm
03/21/2019 20:41	IC Carl Holley reported that the 20:00 estimated start time of pumping did not occur due to a bad fitting. In progress of getting a replacement fitting. ETA: 00:00 3/22. (4 Hours)
03/21/2019 20:14	Mike Venegas reported that they were approached by Lt. Lopez from the Sherrif's Office and was asking questions.
03/21/2019 19:58	2 ppm reported by CTEH on the North side of Vopac.
03/21/2019 19:50	Fire has been extinguished. Fresh foam has been applied.
03/21/2019 19:46	Flare up reported at 1st 80s manifold.
03/21/2019 18:00	Command staff meeting with Mayor of Deer Park and Chief Kidd of TDEM
03/21/2019 17:43	Drone overflights approved for overnight.
03/21/2019 17:00	Hot Zone enhanced North to cover Tidal Rd.
03/21/2019 15:59	10 phones arrive at EOC for communication with field personnel (Backup for bad connection with field).
03/21/2019 15:22	20 totes of foam being applied an hour.
03/21/2019 15:00	Pump truck arrives at 80-7.
03/21/2019 12:48	Pump arrives to 80-15 to pump water.
03/21/2019 12:13	TRG Drone in flight at San Jacinto State Park.
03/21/2019 11:58	City of Deer Park lifting shelter in place.
03/21/2019 11:48	Coordinating with the National Weather Service for forecasts (wind/lightning).
03/21/2019 11:20	2 inch foam level in tank farm.
03/21/2019 10:56	Pumps and hoses arrived from United Rentals.
03/21/2019 10:46	Shutdown transfer from 80-7 to 100-28. Pumping directly into 80-18.
03/21/2019 10:30	Gained approval for drone operations from Texas Parks and Wildlife. Drones activated for shoreline survey of ship channel and San Jacinto State Park.
03/21/2019 09:35	Changed locations of Warm & Cold Zones.
03/21/2019 09:19	Submersible pump and crane enroute to Tank 80-7.
03/21/2019 09:15	Hot Zone reduced.
03/21/2019 08:25	Started pumping product out of Tank 80-7 into Tank 100-28.

03/21/2019 07:21	Working to get access to valve on Tank 80-7. Sending meter to get benzene readings.
03/21/2019 06:16	Operations reported that there is now a foam blanket in tank 80-7 which may be the source of the elevated benzene readings.
03/21/2019 06:06	Held IC Shift change debrief. Off going IC emphasized the ongoing hot zone changes based on air monitoring readings and wind changes. Also, reported that an eNotify was released reporting those readings. Getting readings up to 1.8 benzene and due to that, operations have been slow overnight as responders have been required to shelter in place or work in SCBAs only.
03/21/2019 04:59	Received call that ambulance enroute to respond to a police officer in need of medical attention at one of the road blocks.
03/21/2019 04:30	John (Liaison Officer) is deployed to Deer Park EOC.
03/21/2019 04:30	Report from David Wade: City of Deer Park OEM made decision to close Highway 225 is from Beltway 8 to Miller Cut Off Road.
03/21/2019 04:30	2nd update to E-Notify.
03/21/2019 04:27	Stephen Mason from EPA stated that he received reports from EPA Start Contractors: 1.5 Benzene air monitor readings in the community south of highway 225 at East Blvd and 13th street. Continuing to monitor south to locate end of above action levels.
03/21/2019 04:25	6th Civil Support Team from Texas National Guard is enroute to support air monitoring.
03/21/2019 04:02	Lost transfer from 80-10.
03/21/2019 03:46	Carl requesting 600 totes of foam
03/21/2019 03:27	21 totes of foam every 30 min at 3% being applied to apply foam blanket to suppress vapors. Looking to get more totes enroute.
03/21/2019 03:15	Updated E-Notify message.
03/21/2019 02:52	Deer Park Police notified of shelter in place recommendation between ITC and Love Truck Stop on Independence Parkway
03/21/2019 02:48	On Scene Commander reports that due to the elevated benzene readings responders are relocating to the Love's Truck Stop on Independence Parkway.
03/21/2019 02:30	Reports of elevated Benzene air monitoring readings. Sending E-Notify.
03/21/2019 01:47	80-10 has begun transfer to 100-28
03/21/2019 01:44	OXY issued all clear
03/21/2019 01:06	Miguel received report that OXY issued shelter in place due to elevated Benzene readings.
03/20/2019 16:27	1.93 PPM Benzene reported in Total facility
03/20/2019 14:25	Run hose from 68 & 2nd 80's manifold, to break off pipe and tie that into 64 line. 80-3 has product spewing, 80-1 has pipe broken spewing product.
03/20/2019 13:30	US Congressman Brian Babin arrived on site during 1330 conference.
03/20/2019 12:45	OMI objectives – Boat Ops, Picking Up Foam, Air Monitoring, Sheen Recovering/Monitoring USCG sitting between docks 6 & 3, sheen may have been seen on North side, ended up being soot and foam. Not being recovered using sorbent pads. Light green sheen reported under foam staged Dock 4 (2400ft Hard Boom) going towards DOW. 3000 ft Hard boom, 200 ft at DOW Bridge, 400 ft in drainage ditch, 2400 hard boom & sorbent.
03/20/2019 11:55	4 Sheriffs are currently in the field, 1 more has been added to man the Command Trailer. Total of 5 Sheriffs.
03/20/2019 11:53	– 7, 10, 14 & 15 – product needs to be removed. Product is leaking out. • Pulling off laterals, need to evaluate the conditions of the tanks. 1-2 inch of water throughout the farm. • Tank 7 has at least 20 feet (40,000 bbls) of product remaining in it. • Pipe rack that runs N to S and E to W is assumed compromised. Would need to test before using to move product to dock.
03/20/2019 11:33	CIMA & Williams will stay to help deploy foam and monitor conditions.

03/20/2019 11:26	Two Reps from Total have arrived to ICP to talk with RP IC about current conditions. Benzye has caused Total to shut down. David Sipe TPM & David Attoe OPM.
03/20/2019 10:45	No smoke confirmed from tank 80-5. Tank 7 though does not have foam
03/20/2019 10:28	Smoke reported coming from 80-5.
03/20/2019 09:55	Boom in Channel has broken loose, causing product to move.
03/20/2019 05:29	EOC Manager was told that no representative was needed for the Deer Park EOC.
03/20/2019 05:10	5.25 ppm benzene report on Hollings Road.
03/20/2019 05:02	IC reports that the current freeboard available inside the dike is 3 feet.
03/20/2019 04:45	EOC held update call with IC and discussed potential options for addressing the removal of water and tank products from the dike. 21 ITC personnel currently on scene. High odors reported at the site. One fire truck applying foam to maintain the foam blank but no water is being applied to cool other structures. Personnel air monitoring is being conducted north, south, east and west around the tank walls.
03/20/2019 03:00	IC reports all fires have been extinguished. On scene operations will continue to cold and monitor for re-flash.
03/20/2019 02:26	IC reporting potential elevated benzene levels near foam runoff location. Air monitoring teams being directed to location to confirm readings.
03/20/2019 01:25	IC reports tanks 3, 14 and 15 are the only remaining tanks with active fire. Fire plume has reduced significantly.
03/20/2019 00:19	Tank materials are as follows: 80-1 Base Oil; 80-2 GBS; 80-3 GBS; 80-4 Base Oil; 80-5 Xylene; 80-6 GBS; 80-7 Pygas; 80-8 Naptha; 80-9 Empty; 80-10 Pygas; 80-11 Base Oil; 80-12 Empty; 80-13 Toluene; 80-14 Pygas; 80-15 Pygas.
03/19/2019 22:47	IC reported a responder had tripped resulting in lacerations. Injured person is being taking to local emergency room to address if any treatment beyond first aid is required.
03/19/2019 22:47	US Fire Pumps contacted to assist with fire suppression.
03/19/2019 22:30	EOC held an update call with the IC. IC provide update to status of all tanks: tanks 80-1; 80-4, 80-6, 80-7, 80-11 are out; 80-2, 80-3, 80-5, 80-14 still burning; 80-8, 80-10, 80-13 treated with a foam blank; 80-9 and 80-12 have collapsed.
03/19/2019 12:29	Thunderstorm C6 1x3 foam ordered and enroute to incident location; most orders will be onsite between 16:00 and 22:00.



ED_002627_00017383-00001

Message

From: John Pasquier [jpasquier@responsegroupinc.com]
Sent: 3/25/2019 4:34:11 AM
To: spill12@tceq.texas.gov; Mason, Steve [mason.steve@epa.gov]
Subject: 2nd 80's Fire - Incident Event Log as of 20190324 23:00
Attachments: 20190324 2300 Incident Event Log.pdf

Good evening all,

Please see attached for the current Incident Event Log as of 23:00 on March 24, 2019. The document is sorted to show the most recent at top, working down. Please note that electronic documentation did not begin until March 19, 2019.

Thank you much,

John Pasquier
Current Night Shift Planning Section Chief

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/21/2019 3:17:06 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Mason, Steve [mason.steve@epa.gov]
Subject: FW: [External] RE: Poison Center Directors be Prepared to address community calls associated with Deer Park Fire

From: Melody Gardner <MELODY.GARDNER@phhs.org>
Sent: Thursday, March 21, 2019 10:05 AM
To: Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Young, Patrick <young.patrick@epa.gov>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Baker, David <David.Baker@BSWHealth.org>; Sal Baeza <sbaeza@umcelpaso.org>; Jeanie.Jaramillo@ttuhsc.edu; Veronica Stoller <stoller@uthscsa.edu>; Bojes,Heidi (DSHS) <Heidi.Bojes@dshs.texas.gov>; Dazhe Cao <Dazhe.Cao@UTSouthwestern.edu>; Kaitlyn Cross <KAITLYN.CROSS@phhs.org>; Jacob Kay <JACOB.KAY@phhs.org>
Cc: ran2@cdc.gov; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Hanley, Jack (ATSDR/DCHI/CB) <jah8@cdc.gov>; Funk, Renee (CDC/ONDIEH/NCEH) <rjf8@cdc.gov>; Lyke, Jennifer <Lyke.Jennifer@epa.gov>; Reategui-Zirena,Evelyn (DSHS) <Evelyn.Reategui-Zirena@dshs.texas.gov>; Kessinger,Jessica (DSHS) <Jessica.Kessinger@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>
Subject: RE: [External] RE: Poison Center Directors be Prepared to address community calls associated with Deer Park Fire

Here is what we have put together for the time being:

What are the common symptoms?
throat irritation, eye irritation, headache, dizziness, skin irritation.
These are short term and should subside shortly.

What is the half life?
15-20 hours.

What happens with the benzene we inhale?
Most of the benzene inhaled is exhaled.

What do I recommend if I receive a call from an HCF?
Symptoms include throat irritation, eye irritation, headache, dizziness, skin irritation.
No labs needed.
Do not get a benzene level on a smoker or anyone for that matter.

Will I get cancer from this?
There is concern for AML and pancytopenia in continued long term exposures, which should not be the case.
The levels that have been reported currently are far below the levels required to cause cancer.

Can you give me any additional information?
We are still gathering data on an hourly basis. Review current information.

Do I need to wear a mask.
You can wear one but not necessary

Do I have to stay indoors?
At this time follow the recommendations the state agencies have released.
Abundance of precaution for your safety.

Does anything change for people in the deer park area being exposed to the smoke?
No. Supportive care. No labs needed.

First responder with symptoms:
First responders who have been exposed for hours or have more serious symptoms should seek medical care.

Our recommendations may change according to the data we receive as the day progresses.

From: Hall,Emily (DSHS) [mailto:Emily.Hall@dshs.texas.gov]
Sent: Thursday, March 21, 2019 9:56 AM
To: Kelly Hogue; Young, Patrick; Brett Roth; Melody Gardner; Baker, David; Sal Baeza; Jeanie.Jaramillo@ttuhsc.edu; Veronica Stoller; Bojes,Heidi (DSHS); Dazhe Cao
Cc: ran2@cdc.gov; Crossland, Ronnie; Hanley, Jack (ATSDR/DCHI/CB); Funk, Renee (CDC/ONDIEH/NCEH); Lyke, Jennifer; Reategui-Zirena,Evelyn (DSHS); Kessinger,Jessica (DSHS); Stuteville,Haylea (DSHS)
Subject: RE: [External] RE: Poison Center Directors be Prepared to address community calls associated with Deer Park Fire

DSHS will continue updating the data summary report daily for the duration of this incident.

Additionally, our toxicologist is currently summarizing information about the fire-related chemicals, starting with benzene; we'll send this to you a.s.a.p. in case it is useful in preparing consistent messaging.

Regarding coding for these calls, we suggest:

Free Area 1:PHEMERG/EVENT
Notes: DEER PARK FIRE
Substance: smoke or any explicitly-stated substance (benzene, toluene, xylene, other hydrocarbon, etc.)

PCCs, this is what our poison epi has been seeing in the data, so you all may have already determined coding for this incident. Just let us know what you decide on so we can query the data accordingly.

Thank you,

Emily

Emily Hall, MPH
Manager, Environmental Surveillance and Toxicology Branch
Texas Department of State Health Services
(512) 776-2652

From: Kelly Hogue [mailto:KELLY.HOGUE@phhs.org]
Sent: Thursday, March 21, 2019 8:35 AM
To: Young, Patrick <young.patrick@epa.gov>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Melody Gardner <MELODY.GARDNER@phhs.org>; Baker, David <David.Baker@BSWHealth.org>; Sal Baeza <sbaeza@umcelpaso.org>; Jeanie.Jaramillo@ttuhsc.edu; Veronica Stoller <stoller@uthscsa.edu>; Bojes,Heidi (DSHS) <Heidi.Bojes@dshs.texas.gov>; Dazhe Cao <Dazhe.Cao@UTSouthwestern.edu>
Cc: Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; ran2@cdc.gov; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Hanley, Jack (ATSDR/DCHI/CB) <jah8@cdc.gov>; Funk, Renee (CDC/ONDIEH/NCEH) <rjf8@cdc.gov>; Lyke, Jennifer <Lyke.Jennifer@epa.gov>
Subject: RE: [External] RE: Poison Center Directors be Prepared to address community calls associated with Deer Park Fire

WARNING: This email is from outside the HHS system. Do not click on links or attachments unless you expect them from the sender and know the content is safe.

Thank you Patrick. Our center is currently receiving calls on this back to back. I am reaching out to medical directors to see if we can get a consistent message and details to share with the public.

Thanks,

Kelly Hogue, RN, MSN
NTPC Manager

North Texas Poison Center
5201 Harry Hines Blvd.
Dallas, Texas 75235
(214) 590-8443 Office
(214) 590-5008 Fax

From: Young, Patrick [mailto:young.patrick@epa.gov]
Sent: Thursday, March 21, 2019 8:08 AM
To: Kelly Hogue; Brett Roth; Melody Gardner; Baker, David; Sal Baeza; Jeanie.Jaramillo@ttuhsc.edu; Veronica Stoller; Heidi Bojes (Heidi.Bojes@dshs.state.tx.us); Dazhe Cao
Cc: Hall,Emily (DSHS); ran2@cdc.gov; Crossland, Ronnie; Hanley, Jack (ATSDR/DCHI/CB); Funk, Renee (CDC/ONDIEH/NCEH); Lyke, Jennifer
Subject: [External] RE: Poison Center Directors be Prepared to address community calls associated with Deer Park Fire

*** This e-mail did not originate from a Parkland e-mail address. If you do not know or trust the sender, do not click on any links in this e-mail, open any attachments, or disclose any sensitive information such as your password. ***

All,

Received a phone call today from EPA R6 Dallas regarding elevated levels of benzen in the air. It was reported the local response agencies issues a shelter in place due to elevated benzene. Approximately 1.3 PPM of benzene in the air was detected. This level can increase or decrease based on weather conditions. The increase in VOC is now a result of the fire going out.

EPA wanted to let the Poison Center Directors know they may be getting increased calls this morning and has wind/temperatures change.

For the Poison Control Centers – as per Kelly Hogue post below. Please start advising your SPI's. Also, creating universal coding that can be used to generate a report from all centers.

TDSHS – can you compile a report by 3:00 on the calls received and share that report back with PCC, ATSDR and EPA. I would like daily PCC report until this settles.

EPA/TCEQ/local response agencies -for public health/community questions/Medical, refer to the Poison Control Number 1-800-222-1222.

CAPT Patrick Young, MS, RS
U.S. Public Health Service
ATSDR R6 Regional Rep
Division of Community Health Investigation
Dallas, Texas
214-665-8562 (o)

From: Kelly Hogue <KELLY.HOGUE@phhs.org>
Sent: Thursday, March 21, 2019 6:30 AM
To: Brett Roth <Brett.Roth@UTSouthwestern.edu>; Melody Gardner <MELODY.GARDNER@phhs.org>; Baker, David <David.Baker@BSWHealth.org>; Sal Baeza <sbaeza@umcelpaso.org>; Jeanie.Jaramillo@ttuhsc.edu; Veronica Stoller <stoller@uthscsa.edu>; Young, Patrick <young.patrick@epa.gov>; Heidi Bojes (Heidi.Bojes@dshs.state.tx.us) <Heidi.Bojes@dshs.state.tx.us>; Dazhe Cao <Dazhe.Cao@UTSouthwestern.edu>
Subject: Fwd: Information

Good morning. I received this information below and looked it up. The plant chemicals are listed and there is an order to shelter in place as of an hour ago. I attached the news story. Since there are chemicals listed can we gather info to distribute to the SPIs since the public was informed to call us?

https://www.cbsnews.com/news/deer-park-texas-chemicals-facility-fire-shelter-in-place-benzene-live-updates-2019-03-21/

Thank you.

Get Outlook for iOS

From: LaShawn Ritchie <lashawn.ritchie@phhs.org>
Sent: Thursday, March 21, 2019 6:11 AM
To: Kelly Hogue
Subject: Information

I just took a call from Dale Samuelsen, Public Relations Officer from ITC in joint information center; states that they're instructing members of the public to call Poison Control with any health concerns. Benzine and VOC-violatile organic compounds are what they're telling the public. Call 281-415-7306 to reach him directly.

LaShawn

CONFIDENTIALITY NOTICE This message (including any attachments) is intended only for the use of the addressee(s) and may contain information that is privileged and confidential. If you are the intended recipient, further disclosures are prohibited without proper authorization. If you are not the intended recipient or an authorized representative of the intended recipient, the use, dissemination or reproduction of this communication is prohibited and may be a violation of federal or state law and regulations. If you have received this communication in error, please destroy all copies of the message and its attachments and notify the sender immediately. The Dallas County Hospital District and its affiliated entities hereby claim all applicable privileges related to this information.

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Please note My email address has changed to reflect @dshs.texas.gov domain. Please be sure to update your contact information with the new address.

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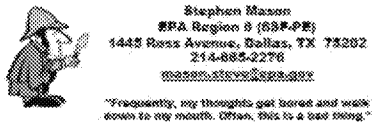
Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/24/2019 8:11:43 AM
To: Benjamin Latham [b.latham@westonsolutions.com]
Subject: FW: 2nd 80's Fire - Approved Period 2 Incident Action Plan
Attachments: 2nd 80s Fire - Approved Period 2 Incident Action Plan.pdf

With Regards, Steve



From: John Pasquier <jpasquier@responsegroupinc.com>
Sent: Sunday, March 24, 2019 2:51 AM
To: spill12@tceq.texas.gov; hdubach@ctehrm.com; david.wade@oem.hctx.net; dwascome@iterm.com; bnetland@iterm.com; Nicole.d.rodriguez@uscg.mil; Loesel, Matthew <loesel.matthew@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; Jessica.l.wissmann@uscg.mil; Mason, Steve <mason.steve@epa.gov>; Tilly19@gmail.com; Kamryn.e.jones@uscg.mil; Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov
Cc: Jeremy Kolek <jkolek@responsegroupinc.com>
Subject: 2nd 80's Fire - Approved Period 2 Incident Action Plan

Good morning,

Please see attached for the approved Period 2 Incident Action Plan.

Period 2 Operational Period: [03/24/2019 07:00 – 03/25/2019 07:00]

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

Message

From: PasadenaOperationsCopier@iterm.com [PasadenaOperationsCopier@iterm.com]
Sent: 3/26/2019 5:27:54 AM
To: Mason, Steve [mason.steve@epa.gov]
Subject: Message from "PasadenaCopier2"
Attachments: 20190326002754000.pdf

This E-mail was sent from "PasadenaCopier2" (MP C2503).

Scan Date: 03.26.2019 00:27:53 (-0500)
Queries to: PasadenaOperationsCopier@iterm.com

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/20/2019 9:19:33 AM
To: Miguel Escoto [MEscoto@iterm.com]; spill12@tceq.texas.gov
CC: ITC Cares [ITCCares@iterm.com]; ITC Incident [itcincident@iterm.com]; Harrison Reback (harrison.reback@bakerbotts.com) [harrison.reback@bakerbotts.com]; Mike Gaudet [MGaudet@iterm.com]; Brent Weber [bweber@iterm.com]; Bob Pennacchi [BPENNACCHI@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]
Subject: RE: ITC Media Release Statement #13

EPA concurs with this press release…

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PB)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

From: Miguel Escoto <MEscoto@iterm.com>
Sent: Wednesday, March 20, 2019 4:07 AM
To: spill12@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>
Cc: ITC Cares <ITCCares@iterm.com>; ITC Incident <itcincident@iterm.com>; Harrison Reback (harrison.reback@bakerbotts.com) <harrison.reback@bakerbotts.com>; Mike Gaudet <MGaudet@iterm.com>; Brent Weber <bweber@iterm.com>; Bob Pennacchi <BPENNACCHI@iterm.com>; Alice Richardson <ARICHARDSON@iterm.com>
Subject: ITC Media Release Statement #13

Please see attached

Thanks,

Miguel

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/22/2019 7:55:39 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; ran2@cdc.gov; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Jack Hanley [jah8@cdc.gov]; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]; dth9 [dth9@cdc.gov]
Subject: Fwd: TPCN Poison Call Summary Deer Park Fire Update #3
Attachments: 03-22-19_ITC_Fire_Update_03.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>
Date: March 22, 2019 at 2:30:25 PM CDT
To: "Young, Patrick" <young.patrick@epa.gov>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Baker, David" <David.Baker@BSWHealth.org>, Sal Baeza <sbaeza@umcelpaso.org>, "Jeanie.Jaramillo@ttuhsc.edu" <Jeanie.Jaramillo@ttuhsc.edu>, Veronica Stoller <stoller@uthscsa.edu>, "Bojes,Heidi (DSHS)" <Heidi.Bojes@dshs.texas.gov>, Dazhe Cao <Dazhe.Cao@UTSouthwestern.edu>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, "Jacob Kay" <JACOB.KAY@phhs.org>
Cc: "ran2@cdc.gov" <ran2@cdc.gov>, "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>, "Hanley, Jack (ATSDR/DCHI/CB)" <jah8@cdc.gov>, "Funk, Renee (CDC/ONDIEH/NCEH)" <rjf8@cdc.gov>, "Lyke, Jennifer" <Lyke.Jennifer@epa.gov>, "Reategui-Zirena,Evelyn (DSHS)" <Evelyn.Reategui-Zirena@dshs.texas.gov>, "Kessinger,Jessica (DSHS)" <Jessica.Kessinger@dshs.texas.gov>
Subject: TPCN Poison Call Summary Deer Park Fire Update #3

Good Afternoon,

Please find the attached summary for TPCN calls related to the ITC Deer Park Chemical Fire.

Feel free to share with anyone who needs this.

Thank You,

Haylea Stuteville, MPH
Epidemiologist III
Texas Department of State Health Services
Environmental Surveillance and Toxicology Branch
1100 W. 49th Street, MC 1964
Austin, TX 78756
Haylea.Stuteville@dshs.texas.gov
Phone: (512) 776-6039
Fax: (512) 776-7222

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Message

From: Miguel Escoto [MEscoto@iterm.com]
Sent: 3/20/2019 9:07:06 AM
To: spill12@tceq.texas.gov; Mason, Steve [mason.steve@epa.gov]
CC: ITC Cares [ITCCares@iterm.com]; ITC Incident [itcincident@iterm.com]; Harrison Reback (harrison.reback@bakerbotts.com) [harrison.reback@bakerbotts.com]; Mike Gaudet [MGaudet@iterm.com]; Brent Weber [bweber@iterm.com]; Bob Pennacchi [BPENNACCHI@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]
Subject: ITC Media Release Statement #13
Attachments: ITC Press Release Statement #13.pdf

Please see attached

Thanks,

Miguel

Message

From: Sheridon Ochoa [sochoa@iterm.com]
Sent: 3/20/2019 9:15:26 AM
To: Miguel Escoto [MEscoto@iterm.com]; spill12@tceq.texas.gov; Mason, Steve [mason.steve@epa.gov]
CC: ITC Cares [ITCCares@iterm.com]; ITC Incident [itcincident@iterm.com]; Harrison Reback (harrison.reback@bakerbotts.com) [harrison.reback@bakerbotts.com]; Mike Gaudet [MGaudet@iterm.com]; Brent Weber [bweber@iterm.com]; Bob Pennacchi [BPENNACCHI@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]
Subject: RE: ITC Media Release Statement #13

Update has been rescinded pending final approvals.

Thanks,

Sheridon Ochoa
Human Resources Training Manager
Intercontinental Terminals Company
Office 281.884.0217 | Mobile 281.898.8956

From: Sheridon Ochoa
Sent: Wednesday, March 20, 2019 4:13 AM
To: Miguel Escoto; spill12@tceq.texas.gov; 'mason.steve@epa.gov'
Cc: ITC Cares; ITC Incident; Harrison Reback (harrison.reback@bakerbotts.com); Mike Gaudet; Brent Weber; Bob Pennacchi; Alice Richardson
Subject: RE: ITC Media Release Statement #13

The website has been updated.

Thanks,

Sheridon Ochoa
Human Resources Training Manager
Intercontinental Terminals Company
Office 281.884.0217 | Mobile 281.898.8956

From: Miguel Escoto
Sent: Wednesday, March 20, 2019 4:07 AM
To: spill12@tceq.texas.gov; 'mason.steve@epa.gov'
Cc: ITC Cares; ITC Incident; Harrison Reback (harrison.reback@bakerbotts.com); Mike Gaudet; Brent Weber; Bob Pennacchi; Alice Richardson
Subject: ITC Media Release Statement #13

Please see attached

Thanks,

Miguel

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 3/20/2019 9:15:14 AM
To: Miguel Escoto [MEscoto@iterm.com]; Mason, Steve [mason.steve@epa.gov]
CC: ITC Cares [ITCCares@iterm.com]; ITC Incident [itcincident@iterm.com]; Harrison Reback (harrison.reback@bakerbotts.com) [harrison.reback@bakerbotts.com]; Mike Gaudet [MGaudet@iterm.com]; Brent Weber [bweber@iterm.com]; Bob Pennacchi [BPENNACCHI@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]
Subject: RE: ITC Media Release Statement #13

TCEQ is good with this.

Thanks,
Travis

From: Miguel Escoto <MEscoto@iterm.com>
Sent: Wednesday, March 20, 2019 4:07 AM
To: spill12 <spill12@tceq.texas.gov>; 'mason.steve@epa.gov' <mason.steve@epa.gov>
Cc: ITC Cares <ITCCares@iterm.com>; ITC Incident <itcincident@iterm.com>; Harrison Reback (harrison.reback@bakerbotts.com) <harrison.reback@bakerbotts.com>; Mike Gaudet <MGaudet@iterm.com>; Brent Weber <bweber@iterm.com>; Bob Pennacchi <BPENNACCHI@iterm.com>; Alice Richardson <ARICHARDSON@iterm.com>
Subject: ITC Media Release Statement #13

Please see attached

Thanks,

Miguel

Message

From: Sheridon Ochoa [sochoa@iterm.com]
Sent: 3/20/2019 9:12:52 AM
To: Miguel Escoto [MEscoto@iterm.com]; spill12@tceq.texas.gov; Mason, Steve [mason.steve@epa.gov]
CC: ITC Cares [ITCCares@iterm.com]; ITC Incident [itcincident@iterm.com]; Harrison Reback (harrison.reback@bakerbotts.com) [harrison.reback@bakerbotts.com]; Mike Gaudet [MGaudet@iterm.com]; Brent Weber [bweber@iterm.com]; Bob Pennacchi [BPENNACCHI@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]
Subject: RE: ITC Media Release Statement #13

The website has been updated.

Thanks,

Sheridon Ochoa
Human Resources Training Manager
Intercontinental Terminals Company
Office 281.884.0217 | Mobile 281.898.8956

From: Miguel Escoto
Sent: Wednesday, March 20, 2019 4:07 AM
To: spill12@tceq.texas.gov; 'mason.steve@epa.gov'
Cc: ITC Cares; ITC Incident; Harrison Reback (harrison.reback@bakerbotts.com); Mike Gaudet; Brent Weber; Bob Pennacchi; Alice Richardson
Subject: ITC Media Release Statement #13

Please see attached

Thanks,

Miguel

Message

From: John Pasquier [jpasquier@responsegroupinc.com]
Sent: 3/26/2019 3:18:39 AM
To: Kendra.Bernhagen@tceq.texas.gov; Mason, Steve [mason.steve@epa.gov]
CC: Linda D. Primrose [lprimrose@iterm.com]; Dustin White [dwhite@responsegroupinc.com]
Subject: 2nd 80s Fire Incident Documentation Plan - For Review and Approval
Attachments: Incident Documentation Plan - For Review & Approval.docx

Good evening,

Please see attached for the 2nd 80s Fire Incident Documentation Plan for review and approval.

Thank you,

John Pasquier
Current Night Shift Planning Section Chief

PLAN COVER PAGE

2nd 80s Fire Incident Documentation Plan

Plan Title

Linda D. Primrose

Submitted by (Name)

Legal Officer

Submitted by (Position)

Monday, 25 March, 2019

Date of Submission

Legal Review: Yes/No Reviewed by:

APPROVED BY COMMAND

Incident Commander (Responsible Party)	Date
Federal On Scene Coordinator	Date
State On Scene Coordinator	Date
Local On Scene Coordinator	Date

Preserve and retain all documents

WHAT IS A DOCUMENT?

A document is any form of recorded information created or maintained for use at a later date.

For ease of retrieval, please retain any documents created electronically in a dedicated .PST file.

Documents can include (but are not limited to) the following:

- Completed ICS forms, memos, letters, handwritten notes (including those on calendars, note pads, etc.)
- Reports, facsimiles
- Maps, graphs, charts
- Data, records, microfilm, microfiche, physical objects, videos, voice messages and other recorded messages
- Electronic data such as emails, email attachments, computer files, databases, spreadsheets, tapes, tape-recorded conversations, computer disks or tapes
- Electronic data on removable media devices (USB/flash drives), floppy disks, CD-ROMs, DVDs, instant/text messages, laptops, PDAs, etc. (including any document related to the incident created on a personal item listed above)

Originals, drafts, handwritten notes, and copies will need to be retained.

Baskets/boxes will be made available for submission of documents to the Documentation Unit.

ASSUME your documents will become public. THINK before you write!

- Be Factual
- Be Specific
- Do not use subjective and vague personal impressions
- Avoid speculation and/or rumors

DOCUMENTATION UNIT PROCESS

1. All documents delivered to the Documentation Unit must include the Incident Name
2. Ensure all original documents generated by individuals or Sections have a signature, date and time when delivered to the Documentation Unit.
3. Each Section and Unit must complete an ICS 214 (Unit Log) and every participant must complete an ICS 214a (Individual Log).
   a. ALL Unit and Individual Logs must be filed with the Documentation Unit at the end of the incident. The Unit Leader (or designated Unit member) will be responsible for delivering relevant 214 and 214a to the Documentation Unit.
   b. Blank forms are available at the Documentation Unit area.
4. All task/support plans and IAP must be approved by the Incident Commander, signed, dated and time-indicated before submission to the Documentation Unit.
5. If you print to a printer located within the Documentation Unit area, please make an extra copy and leave it with the Documentation Unit in the receptacle provided.
6. The Documentation Unit will provide copy services, as well as, file and retain all original documents.
7. Suggested hard copy documentation filing strategies include, but are not limited to:
   a. Air, water, and soil sampling results
   b. Tank farm recovery operations
   c. Ditch recovery operations
   d. Surface water recovery operations
   e. GRP sensitive sites
   f. Waste management
8. Electronic documentation filing strategy:
   a. Contact Nicholas Lambron for Shared Drive access at 832-414-3587 or [HYPERLINK "mailto:nlambron@iterm.com"].
   b. Files stored on Shared Drive
   c. File structure organization consistent with hard copy

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/25/2019 11:58:32 PM
To: ran2@cdc.gov; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]; Lyke, Jennifer [Lyke.Jennifer@epa.gov]; dth9 [dth9@cdc.gov]; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; PAY9 [pay9@cdc.gov]; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; yjp8@cdc.gov; Turner, Philip [Turner.Philip@epa.gov]
Subject: Fwd: Deer Park Fire SITREP #3

Sent from my iPhone

Begin forwarded message:

From: "Baker, David" <David.Baker@BSWHealth.org>
Date: March 25, 2019 at 6:51:52 PM CDT
To: "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, Steven D." <dbaker@UTMB.EDU>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: RE: Deer Park Fire SITREP #3

Sorry Folks - I forgot to change the subject line

It is SIT REP 3 not 2

When will this end

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

From: Baker, David
Sent: Monday, March 25, 2019 5:27 PM
To: 'Young, Patrick' <young.patrick@epa.gov>; Snodgrass, Wayne R. <wsnodgra@UTMB.EDU>; Martin, Thomas <Thomas.Martin@ttuhsc.edu>; Melody Gardner <MELODY.GARDNER@phhs.org>; Baker, Steven D. <dbaker@UTMB.EDU>; Jaramillo, Jeanie <Jeanie.Jaramillo@ttuhsc.edu>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Sal Baeza <sbaeza@umcelpaso.org>; Veronica Stoller <Stoller@uthscsa.edu>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Dr. Varney <Varney@uthscsa.edu>; Joshi, Prashant <Prashant.Joshi@ttuhsc.edu>; Morrissey, Ryan P M.D. <Ryan.Morrissey@BSWHealth.org>; Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>; Borron, Stephen <Stephen.Borron@ttuhsc.edu>; Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>; Kelli Merriweather <kellim@csec.texas.gov>; James Johnson <jamesmj@csec.texas.gov>; Kaitlyn Cross

<KAITLYN.CROSS@phhs.org>; Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: RE: Deer Park Fire SITREP #2

From the poison center

Thanks Patrick

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

From: Young, Patrick <young.patrick@epa.gov>
Sent: Monday, March 25, 2019 2:52 PM
To: Snodgrass, Wayne R. <wsnodgra@UTMB.EDU>; Martin, Thomas <Thomas.Martin@ttuhsc.edu>; Melody Gardner <MELODY.GARDNER@phhs.org>; Baker, David <David.Baker@BSWHealth.org>; Baker, Steven D. <dbaker@UTMB.EDU>; Jaramillo, Jeanie <Jeanie.Jaramillo@ttuhsc.edu>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Sal Baeza <sbaeza@umcelpaso.org>; Veronica Stoller <Stoller@uthscsa.edu>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Dr. Varney <Varney@uthscsa.edu>; Joshi, Prashant <Prashant.Joshi@ttuhsc.edu>; Morrissey, Ryan P M.D. <Ryan.Morrissey@BSWHealth.org>; Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>; Borron, Stephen <Stephen.Borron@ttuhsc.edu>; Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>; Kelli Merriweather <kellim@csec.texas.gov>; James Johnson <jamesmj@csec.texas.gov>; Kaitlyn Cross <KAITLYN.CROSS@phhs.org>; Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: {EXTERNAL} RE: Deer Park Fire SITREP #2

Do we have a SIT REP for today?

CAPT Patrick Young, MS, RS
U.S. Public Health Service
ATSDR R6 Regional Rep
Division of Community Health Investigation
Dallas, Texas
214-665-8562 (o)

From: Snodgrass, Wayne R. <wsnodgra@UTMB.EDU>
Sent: Monday, March 25, 2019 2:39 PM
To: Martin, Thomas <Thomas.Martin@ttuhsc.edu>; Melody Gardner <MELODY.GARDNER@phhs.org>; Baker, David <David.Baker@BSWHealth.org>; Baker, Steven D. <dbaker@UTMB.EDU>; Jaramillo, Jeanie <Jeanie.Jaramillo@ttuhsc.edu>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Sal Baeza <sbaeza@umcelpaso.org>; Veronica Stoller <Stoller@uthscsa.edu>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Dr. Varney <Varney@uthscsa.edu>; Joshi, Prashant <Prashant.Joshi@ttuhsc.edu>; Ryan Morrissey <rmorrissey@swmail.sw.org>; Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>; Borron, Stephen <Stephen.Borron@ttuhsc.edu>; Young, Patrick <young.patrick@epa.gov>; Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>; Kelli Merriweather <kellim@csec.texas.gov>; James Johnson <jamesmj@csec.texas.gov>; Kaitlyn Cross <KAITLYN.CROSS@phhs.org>; Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: Re: Deer Park Fire SITREP #2

Tom,

Thank you for sending this useful published data. Ideally, perhaps this can be part of a basis to encourage state and local agency resources to invest in the cost and updating of such monitoring and followup community assessment of adverse health effects. We did a local followup study soon after an HF release in Texas City many years ago utilizing house-to-house interviews, upwind and downwind, including use of prescription and OTC meds for nose, eye, throat irritation, cough, (URI symptoms), etc (see reference below) showing a difference in prevalence of such meds present in the households. We have no funding to do a similar household study ourselves at this time.

I know of two patients, one briefly admitted, with pre-existing asthma, each one had an exacerbation of their asthma, short-term (2—3 days) responding to additional inhalant drug therapy.

Best regards,

Wayne

Wayne R. Snodgrass MD, PhD

Dayal HH ..... Snodgrass WR: Use of medication data to validate an association in community-based symptom prevalence studies.
Arch Environ Health 1994;49:93—97

From: "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>
Date: Saturday, March 23, 2019 1:09 PM
To: Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, David" <David.Baker@BSWHealth.org>, "Baker, Steven D." <dbaker@UTMB.EDU>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, Ryan Morrissey <rmorrissey@swmail.sw.org>, Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, wayne snodgrass <wsnodgra@utmb.edu>, "young.patrick@epa.gov" <young.patrick@epa.gov>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: Re: Deer Park Fire SITREP #2

Thomas G. Martin, MD, MPH, FACMT, FAACT, FACEP

Medical Director

Texas Panhandle Poison Center

Texas Tech University Health Sciences Center

1300 S. Coulter, #105

Amarillo, TX 79106

Office 806 414-9749

From: Melody Gardner <MELODY.GARDNER@phhs.org>
Sent: Friday, March 22, 2019 3:53:17 PM
To: Baker, David; David (UTMB); Jaramillo, Jeanie; Kelly Hogue; Sal Baeza; Veronica Stoller; Brett Roth; Dr. Varney; Joshi, Prashant; Ryan Morrissey; Sharilyn Stanley; Borron, Stephen; Martin, Thomas; Wayne Snodgrass; young.patrick@epa.gov; Hall,Emily (DSHS); Stuteville,Haylea (DSHS); Kelli Merriweather; James Johnson; Kaitlyn Cross; Dawn Marchetto
Subject: RE: Deer Park Fire SITREP #2

Good afternoon.

Please see attached for SITREP #2

From: Melody Gardner
Sent: Friday, March 22, 2019 7:08 AM
To: 'Baker, David'; 'David (UTMB)'; 'Jeanie Jaramillo'; Kelly Hogue; 'Sal Baeza'; 'Veronica Stoller'; Brett Roth; Dr. Varney; Joshi Prashant; 'Ryan Morrissey'; Sharilyn Stanley; Stephen Borron; Thomas Martin; 'Wayne Snodgrass'; 'young.patrick@epa.gov'; Hall,Emily (DSHS) (Emily.Hall@dshs.texas.gov); Stuteville,Haylea (DSHS) (Haylea.Stuteville@dshs.texas.gov); Kelli Merriweather (kellim@csec.texas.gov); James Johnson (jamesmj@csec.texas.gov); Kaitlyn Cross
Subject: Deer Park Fire SITREP #1

See attached.

Melody Gardner MHA, MSN, RN

Alumnus CCRN

Director of Biotel, North Texas Poison Center, and Emergency Observation

Parkland Health & Hospital System

5201 Harry Hines Blvd.

Dallas, TX 75235

469-419-0456 (office)

melody.gardner@phhs.org

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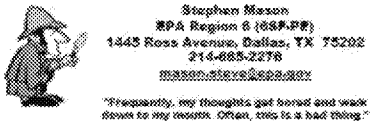
The information contained in this e-mail may be privileged and/or confidential, and protected from disclosure, and no waiver of any attorney-client, work product, or other privilege is intended. If you are the intended recipient, further disclosures are prohibited without proper authorization. If you are not the intended recipient (or have received this e-mail in error) please notify the sender immediately and destroy this e-mail. Any unauthorized copying, disclosure or distribution of the material in this e-mail is strictly forbidden and possibly a violation of federal or state law and regulations. The sender and Baylor Scott & White Health, and its affiliated entities, hereby expressly reserve all privileges and confidentiality that might otherwise be waived as a result of an erroneous or misdirected e-mail transmission. No employee or agent is authorized to conclude any binding agreement on behalf of Baylor Scott & White Health, or any affiliated entity, by e-mail without express written confirmation by the CEO, the Senior Vice President of Supply Chain Services or other duly authorized representative of Baylor Scott & White Health.

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/20/2019 3:48:59 AM
To: mtaylor@iterm.com
Subject: FW: Latest CTEH report

Mike, EPA and TCEQ have reviewed the document and we have no objection to posting it publicly….

With Regards, Steve



From: Adams, Adam
Sent: Tuesday, March 19, 2019 7:23 PM
To: Rauscher, Jon <Rauscher.Jon@epa.gov>
Cc: Benjamin Latham - Weston (b.latham@westonsolutions.com) <b.latham@westonsolutions.com>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Loesel, Matthew <loesel.matthew@epa.gov>; Mason, Steve <mason.steve@epa.gov>
Subject: FW: Latest CTEH report

From: Mike Taylor <mtaylor@iterm.com>
Sent: Tuesday, March 19, 2019 7:20 PM
To: Adams, Adam <Adams.Adam@epa.gov>; spill12@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil
Cc: harrison.reback@bakerbotts.com; Mike Gaudet <MGaudet@iterm.com>; Mike Taylor <mtaylor@iterm.com>; matthew.kuryla@bakerbotts.com
Subject: Latest CTEH report

Attached is the latest CTEH report for your review.

Mike Taylor
Environmental Compliance Specialist
Intercontinental Terminals Company LLC
281.884.0353
mtaylor@iterm.com

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 3/22/2019 6:22:45 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Mason, Steve [mason.steve@epa.gov]
Subject: FW: [External] RE: Deer Park Fire SITREP #1

Can you provide any info for our Poison Centers on the question below?

From: Kelly Hogue <KELLY.HOGUE@phhs.org>
Sent: Friday, March 22, 2019 1:15 PM
T
Subject: RE: [External] RE: Deer Park Fire SITREP #1

Updates

Patrick-Do you know what product was released with the collapse listed below?

Friday 22 March 2019

12:45PM City of Deer Park

The community is advised that at approximately 12:15PM, the dike wall at Intercontinental Terminals Company (ITC) Deer Park containing the product released during the recent fire event partially collapsed.

As a result, ITC sent out a Shelter-in-Place notification to industrial neighbors and the San Jacinto Texas State Historic Site.

At this time, the City of Deer Park is not ordering a Shelter-in-Place for the city limits but will provide additional information as it becomes available.

Kelly Hogue, RN, MSN
NTPC Manager

North Texas Poison Center
5201 Harry Hines Blvd.
Dallas, Texas 75235
(214) 590-8443 Office
(214) 590-5008 Fax

From: Kelli Merriweather [mailto:kellim@csec.texas.gov]
Sent: Friday, March 22, 2019 8:31 AM
To: Melody Gardner; Baker, David; David (UTMB); Jeanie Jaramillo; Kelly Hogue; Sal Baeza; Veronica Stoller; Brett Roth; Dr. Varney; Joshi Prashant; Ryan Morrissey; Sharilyn Stanley; Stephen Borron; Thomas Martin; Wayne Snodgrass;

young.patrick@epa.gov; Hall,Emily (DSHS); Stuteville,Haylea (DSHS); James M Johnson; Kaitlyn Cross
Subject: [External] RE: Deer Park Fire SITREP #1

*** This e-mail did not originate from a Parkland e-mail address. If you do not know or trust the sender, do not click on any links in this e-mail, open any attachments, or disclose any sensitive information such as your password. ***

Excellent report! Thank you Poison Centers!

Kelli Merriweather
Executive Director
Texas Commission on State Emergency Communications
kelli.merriweather@csec.texas.gov
(512) 305-6938 Desk
(512) 422-9253 Cell

From: Melody Gardner <MELODY.GARDNER@phhs.org>
Sent: Friday, March 22, 2019 7:08 AM
To: Baker, David <David.Baker@BSWHealth.org>; David (UTMB) <dbaker@utmb.edu>; Jeanie Jaramillo <Jeanie.Jaramillo@ttuhsc.edu>; Kelly Hogue <KELLY.HOGUE@phhs.org>; Sal Baeza <sbaeza@umcelpaso.org>; Veronica Stoller <Stoller@uthscsa.edu>; Brett Roth <Brett.Roth@UTSouthwestern.edu>; Dr. Varney <Varney@uthscsa.edu>; Joshi Prashant <prashant.joshi@ttuhsc.edu>; Ryan Morrissey <rmorrissey@swmail.sw.org>; Sharilyn Stanley <sharilyn.stanley@csec.texas.gov>; Stephen Borron <Stephen.borron@ttuhsc.edu>; Thomas Martin <Thomas.Martin@ttuhsc.edu>; Wayne Snodgrass <wsnodgra@utmb.edu>; young.patrick@epa.gov; Hall,Emily (DSHS) <Emily.Hall@dshs.texas.gov>; Stuteville,Haylea (DSHS) <Haylea.Stuteville@dshs.texas.gov>; Kelli Merriweather <kellim@csec.texas.gov>; James M Johnson <jamesmj@csec.texas.gov>; Kaitlyn Cross <KAITLYN.CROSS@phhs.org>
Subject: Deer Park Fire SITREP #1

See attached.

Melody Gardner MHA, MSN, RN
Alumnus CCRN
Director of Biotel, North Texas Poison Center, and Emergency Observation
Parkland Health & Hospital System
5201 Harry Hines Blvd.
Dallas, TX 75235
469-419-0456 (office)
melody.gardner@phhs.org

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CONFIDENTIALITY NOTICE This message (including any attachments) is intended only for the use of the addressee(s) and may contain information that is privileged and confidential. If you are the intended recipient, further disclosures are prohibited without proper authorization. If you are not the intended recipient or an authorized representative of the intended recipient, the use, dissemination or reproduction of this communication is prohibited and may be a violation of federal or state law and regulations. If you have received this communication in error, please destroy all copies of the message and its attachments and notify the sender immediately. The Dallas County Hospital District and its affiliated entities hereby claim all applicable privileges related to this information.

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/22/2019 2:04:41 AM
To: wconner@deerparktx.org; jeverett@iterm.com; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]; kendra.bernhagen@tceq.texas.gov
CC: matthew.kuryla@bakerbotts.com; Mike Gaudet [MGaudet@iterm.com]
Subject: Information on Community Protective Standards

Wayne, here is the information on community protective action levels for benzene… please let me know if you have any questions or I can provide any additional information…

IDLH: 500 ppm; (NIOSH, 2016) / 1/10 IDLH used for community protective actions… 50 ppm…

AEGLs (Acute Exposure Guideline Levels)

AEGLs for Benzene (71-43-2)

Exposure Period	AEGL-1	AEGL-2	AEGL-3
10 minutes	130 ppm	2000 ppm	9700 ppm
30 minutes	73 ppm	1100 ppm	5600 ppm
60 minutes	52 ppm	800 ppm	4000 ppm
4 hours	18 ppm	400 ppm	2000 ppm
8 hours	9 ppm	200 ppm	990 ppm

Level 1

- Notable discomfort, irritation, or certain asymptomatic non-sensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.

Level 2

- Irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.

Level 3

- Life-threatening health effects or death.

Below AEGL Level 1
Airborne concentrations below the AEGL-1 represent exposure levels that could produce mild and progressively increasing but transient and non-disabling odor, taste, and sensory irritation or certain asymptomatic, non-sensory effects. With increasing airborne concentrations above each AEGL, there is a progressive increase in the likelihood of occurrence and the severity of effects described for each corresponding AEGL.
AEGL values represent threshold levels for the general public. As mentioned, that includes susceptible subpopulations, such as infants, children, the elderly, persons with asthma, and those with other illnesses. However, it is recognized that individuals, subject to unique or idiosyncratic responses, could experience the effects described at concentrations below the corresponding AEGL.

How the AEGL's were developed…
https://www.epa.gov/aegl/process-developing-acute-exposure-guideline-levels-aegls

ERPGs

(Emergency Response Planning Guidelines)

Chemical	ERPG-1	ERPG-2	ERPG-3
Benzene (71-43-2)	50 ppm	150 ppm	1000 ppm

Emergency Response Planning Guidelines (ERPG). The American Industrial Hygiene Association publishes these limits that are actually a series of three limits for each chemical. The limits, ERPG-1, ERPG-2, and ERPG-3, represent estimates of progressive levels where certain types of health effects would occur. They are defined as follows:

- ERPG-1. The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to 1 hour without experiencing other than mild transient adverse health effects or perceiving clearly defined, objectionable odor.
- ERPG-2. The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to 1 hour without experiencing or developing irreversible or other serious health effects or symptoms which could impair an individual's ability to take protective action.
- ERPG-3. The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to 1 hour without experiencing or developing life-threatening health effects.

With Regards, Steve

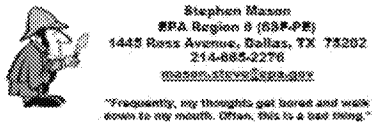
Stephen Mason
EPA Region 8 (8SP-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276

"Frequently, my thoughts get turned and twisted around to my mouth. Often, this is a bad thing."

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/25/2019 1:02:07 AM
To: Assunto, Carmen [assunto.carmen@epa.gov]; Acevedo, Janie [acevedo.janie@epa.gov]
Subject: FW: ITC Media Release Statement 22
Attachments: ITC Media Release Statement 22.pdf

With Regards, Steve



From: ITC Response <itcresponse@iterm.com>
Sent: Sunday, March 24, 2019 7:53 PM
To: amy.calvin@nbcuni.com; Andrew Aleman (aaleman@ci.pasadena.tx.us) <aaleman@ci.pasadena.tx.us>; Angela Barajas (angela.barajas@cnn.com) <angela.barajas@cnn.com>; anthony.cusumano@nbcuni.com; aphouston@ap.org; assignments@khou.com; 'brian.balboa@spglobal.com' <brian.balboa@spglobal.com>; citydesk@chron.com; david.wade@oem.hctx.net; desk@kprc.com; eang@opisnet.com; erwin.seba@thomsonreuters.com; fbengochea@ci.pasadena.tx.us; 'fhart@deerparktx.org' <fhart@deerparktx.org>; fmartin@houstonpublicmedia.com; fox26houstonnews@foxtv.com; 'francisco.sanchez@oem.hctx.net' <francisco.sanchez@oem.hctx.net>; gabe.gutierrez@nbcuni.com; gary.mcwilliams@tr.com; gauthierk@laportetx.gov; gerryfernandez@mac.com; godofredo.vasquez@chron.com; hollie.silverman@turner.com; ITC Cares <ITCCares@iterm.com>; ivory.hecker@foxtv.com; J. Blundau (jblundau@khou.com) <jblundau@khou.com>; jeff.ehling@abc.com; jesrivera@univision.net; jrogalski@khou.com; Juan.Rodas@nbcuni.com; kateamclean@gmail.com; katherine.blunt@wsj.com; Kimberly Flores (Kimberly.Flores@nbcuni.com) <Kimberly.Flores@nbcuni.com>; ktmd_newsdesk@telemundo.com; ktrk.news.releases@abc.com; ktrk.newsalerts@ktrk.com; lindsey.henry@foxtv.com; Lozano (lozano@ap.org) <lozano@ap.org>; Lozano, Juan <jlozano@ap.org>; luciapressreleases@gmail.com; M Hubbell (mhubbell@tdecw.org) <mhubbell@tdecw.org>; maguzman@univision.net; margaret.downing@houstonpress.com; matt.dempsey@chron.com; Meredith.amor@nbcuni.com; Natalie.valdes@nbcuni.com; neighborhoods@chron.com; news@39online.com; news@abc13.com; news@chron.com; news@houstonpublicmedia.org; news@ktrh.com; newsdesk@fox26.com; newstips@khou.com; nicole.hensley@chron.com; Nieves, Nathalie (NievesN@cbsnews.com) <NievesN@cbsnews.com>; oemjic@oem.hctx.net; 'philip.rosenbaum@cbs.com' <philip.rosenbaum@cbs.com>; radamsheard@bloomberg.net; randy.wallace@foxtv.com; 'rebecca.schuetz@chron.com' <rebecca.schuetz@chron.com>; 'rhemminger@deerparktx.org' <rhemminger@deerparktx.org>; rosanchez@univision.net; Rosio.Torres-Segura@oem.hctx.net; samantha.ketterer@chron.com; ssimon@tribunemedia.com; Steve.Campion@abc.com; tammy.leitner@nbcuni.com; TaylorMillard@247newssource.com; taylormillard@iheartmedia.com; ted.oberg@abc.com; univision45@univision.net; vtobben@bloomberg.net; wmoquete@tribunemedia.com; Alice Richardson <ARICHARDSON@iterm.com>; Craig Rouse <CRouse@iterm.com>; IT <it@iterm.com>; ITC Incident <itcincident@iterm.com>; Jane Chaya <JCHAYA@iterm.com>; Jenna Walters <jwalters@iterm.com>; Krista Rodriguez <krodriguez@iterm.com>; MKTG <MKTG@iterm.com>; Nicholas Lambron <nlambron@iterm.com>; Pasadena Security <pasadenasecurity@iterm.com>; Rebecca Jackson <RJACKSON@iterm.com>; Security <Security@iterm.com>; Security Force <securityforce@iterm.com>; Sheridon Ochoa <sochoa@iterm.com>; Yasuhito Oiwa <YOiwa@iterm.com>; Alice Richardson <ARICHARDSON@iterm.com>; Craig Rouse <CRouse@iterm.com>; IT <it@iterm.com>; ITC Incident <itcincident@iterm.com>; Jane Chaya <JCHAYA@iterm.com>; Jenna Walters <jwalters@iterm.com>; Krista Rodriguez <krodriguez@iterm.com>; MKTG <MKTG@iterm.com>; Nicholas Lambron <nlambron@iterm.com>; Rebecca Jackson <RJACKSON@iterm.com>; Security <Security@iterm.com>; Security Force <securityforce@iterm.com>; Yasuhito Oiwa <YOiwa@iterm.com>; rachel.moreno@fmo.hctx.net; Sean

(sean@jettyapp.com) <sean@jettyapp.com>; samantha.ketterer@chron.com; Mason, Steve <mason.steve@epa.gov>; spill12@tceq.texas.gov; ryan.vise@tceq.texas.gov
Subject: ITC Media Release Statement 22

All,

Please see attached updated release.

Regards,

ITC PIO Support Team

FOR IMMEDIATE RELEASE

DATE: March 24, 2019

UPDATE 22: Unified Command continues ITC Fire clean-up operations

HOUSTON — Unified Command continues clean-up operations at the Intercontinental Terminals Company LLC (ITC) facility, Tucker's Bayou and Houston Ship Channel near Deer Park, Texas.

Since March 19, 2019, more than 1,100 federal, state and local first responders, agencies, and environmental cleanup contractors have been on the scene and actively assessing, booming and continuing to remove product from affected areas.

ITC operational personnel are pumping out tank 80-7. They are currently transferring product from 80-14 and will begin transferring from tanks 80-15 and 80-10 all to tank 80-18. They're also still pumping product from the ditch using vacuum trucks and hoses. That product is being transferred to tank 100-28. They are still foaming the tank farm hourly to maintain a 2-foot level of foam.

We continue to monitor air and water quality. Updates are available on this ITC's web page (www.iterm.com/news), as well as those of the responding agencies.

The Coast Guard Captain of the Port has opened the San Jacinto River for a period of time to allow vessel traffic through the channel on Sunday between 5 p.m. and 7 p.m., and Monday, between 9 a.m. and noon. The Houston Ship Channel remains closed to traffic between Tucker's Bayou and HSC Light 116 and closed for cargo operations from HSC Light 139 to HSC Light 129.

Tucker's Bayou and the adjacent ITC piers remain the primary impacted location and the product is contained within booming. Overflights were able to confirm the western leading edge of the product is located at Patrick's Bayou and the eastern leading edge is at Old River, with pockets of additional product in the vicinity of Lynchburg Ferry and San Jacinto Port.

Approximately 27,000-feet of boom has been deployed, covering Tucker's Bayou, the ITC docks, Patrick's Bayou, Old River, Carpenter's Bayou, Battleship Texas, Santa Ana Bayou, the western shore of the mouth of the San Jacinto River, and the oyster beds located in Burnett Bay.

There are currently 34 vessels, including 15 skimmers, on scene conducting operations. An additional seven skimmers and 12 vessels are scheduled to arrive on scene to support assessment, protection, and recovery operations.

Incident Summary:

Response assets:

- Personnel assigned: 775
- Fire-fighting equipment: 14
- Product removal vehicles: 20
- Vessels assigned: 45
- Boom deployed: 27,000 feet

Skimmers have recovered more than 1.3 million gallons of oil water mixture as cleanup crews work 24 hours a day. More than 27,000 feet of boom deployed.

Recovered material:

- Oily water mixture 1.3 million gallons removed from the water
- Pyrolysis gasoline (or Pygas) 12,647 barrels removed from tank 80-7

Key Phone Numbers:

- Claims Hotline: 877-823-6926

For more information contact:

Joint Information Center (JIC)

(832) 780-6739

www.itcresponse.com

ITCCares@iterm.com

@careitc

JIC hours:

- Sunday, March 24, 2019 6 a.m. – 10 p.m.
- Beginning Monday, March 25, 2019 6 a.m. – 8 p.m. (7 days a week)

Message

From: R6_POLREP_TX [R6_POLREP_TX@epa.gov]
Sent: 3/20/2019 5:47:01 PM
To: R6 Polrep-TX [R6_PolrepTX@epa.gov]
Subject: FW: Pollution Report # (Initial)1 ITC Tank Fire - Initial / first 48 hours
Attachments: ITCTankFire_polrep_1.pdf

From: ITCTankFire@response.epa.gov
Sent: Wednesday, March 20, 2019 12:46:55 PM (UTC-06:00) Central Time (US & Canada)
To: Adams, Adam; Smith, Monica; Smalley, Bryant; Assunto, Carmen; R6_POLREP_TX; Mason, Steve; Daniel Tighe; Loesel, Matthew
Subject: Pollution Report # (Initial)1 ITC Tank Fire - Initial / first 48 hours

Attached is a Pollution Report (POLREP) regarding:

USEPA Region VI
ITC Tank Fire
1943 Independence Parkway, La Porte, TX

To view this POLREP, please open the attachment.

For additional information regarding this site,
please visit the website by clicking on this link:
http://response.epa.gov/ITCTankFire

Message

From: ITC Response [itcresponse@iterm.com]
Sent: 3/25/2019 12:52:42 AM
To: amy.calvin@nbcuni.com; Andrew Aleman (aaleman@ci.pasadena.tx.us) [aaleman@ci.pasadena.tx.us]; Angela Barajas (angela.barajas@cnn.com) [angela.barajas@cnn.com]; anthony.cusumano@nbcuni.com; aphouston@ap.org; assignments@khou.com; 'brian.balboa@spglobal.com' [brian.balboa@spglobal.com]; citydesk@chron.com; david.wade@oem.hctx.net; desk@kprc.com; eang@opisnet.com; erwin.seba@thomsonreuters.com; fbengochea@ci.pasadena.tx.us; 'fhart@deerparktx.org' [fhart@deerparktx.org]; fmartin@houstonpublicmedia.com; fox26houstonnews@foxtv.com; 'francisco.sanchez@oem.hctx.net' [francisco.sanchez@oem.hctx.net]; gabe.gutierrez@nbcuni.com; gary.mcwilliams@tr.com; gauthierk@laportetx.gov; gerryfernandez@mac.com; godofredo.vasquez@chron.com; hollie.silverman@turner.com; ITC Cares [ITCCares@iterm.com]; ivory.hecker@foxtv.com; J. Blundau (jblundau@khou.com) [jblundau@khou.com]; jeff.ehling@abc.com; jesrivera@univision.net; jrogalski@khou.com; Juan.Rodas@nbcuni.com; kateamclean@gmail.com; katherine.blunt@wsj.com; Kimberly Flores (Kimberly.Flores@nbcuni.com) [Kimberly.Flores@nbcuni.com]; ktmd_newsdesk@telemundo.com; ktrk.news.releases@abc.com; ktrk.newsalerts@ktrk.com; lindsey.henry@foxtv.com; Lozano (lozano@ap.org) [lozano@ap.org]; Lozano, Juan [jlozano@ap.org]; luciapressreleases@gmail.com; M Hubbell (mhubbell@tdecw.org) [mhubbell@tdecw.org]; maguzman@univision.net; margaret.downing@houstonpress.com; matt.dempsey@chron.com; Meredith.amor@nbcuni.com; Natalie.valdes@nbcuni.com; neighborhoods@chron.com; news@39online.com; news@abc13.com; news@chron.com; news@houstonpublicmedia.org; news@ktrh.com; newsdesk@fox26.com; newstips@khou.com; nicole.hensley@chron.com; Nieves, Nathalie (NievesN@cbsnews.com) [NievesN@cbsnews.com]; oemjic@oem.hctx.net; 'philip.rosenbaum@cbs.com' [philip.rosenbaum@cbs.com]; radamsheard@bloomberg.net; randy.wallace@foxtv.com; 'rebecca.schuetz@chron.com' [rebecca.schuetz@chron.com]; 'rhemminger@deerparktx.org' [rhemminger@deerparktx.org]; rosanchez@univision.net; Rosio.Torres-Segura@oem.hctx.net; samantha.ketterer@chron.com; ssimon@tribunemedia.com; Steve.Campion@abc.com; tammy.leitner@nbcuni.com; TaylorMillard@247newssource.com; taylormillard@iheartmedia.com; ted.oberg@abc.com; univision45@univision.net; vtobben@bloomberg.net; wmoquete@tribunemedia.com; Alice Richardson [ARICHARDSON@iterm.com]; Craig Rouse [CRouse@iterm.com]; IT [it@iterm.com]; ITC Incident [itcincident@iterm.com]; Jane Chaya [JCHAYA@iterm.com]; Jenna Walters [jwalters@iterm.com]; Krista Rodriguez [krodriguez@iterm.com]; MKTG [MKTG@iterm.com]; Nicholas Lambron [nlambron@iterm.com]; Pasadena Security [pasadenasecurity@iterm.com]; Rebecca Jackson [RJACKSON@iterm.com]; Security [Security@iterm.com]; Security Force [securityforce@iterm.com]; Sheridon Ochoa [sochoa@iterm.com]; Yasuhito Oiwa [YOiwa@iterm.com]; Alice Richardson [ARICHARDSON@iterm.com]; Craig Rouse [CRouse@iterm.com]; IT [it@iterm.com]; ITC Incident [itcincident@iterm.com]; Jane Chaya [JCHAYA@iterm.com]; Jenna Walters [jwalters@iterm.com]; Krista Rodriguez [krodriguez@iterm.com]; MKTG [MKTG@iterm.com]; Nicholas Lambron [nlambron@iterm.com]; Rebecca Jackson [RJACKSON@iterm.com]; Security [Security@iterm.com]; Security Force [securityforce@iterm.com]; Yasuhito Oiwa [YOiwa@iterm.com]; rachel.moreno@fmo.hctx.net; Sean (sean@jettyapp.com) [sean@jettyapp.com]; samantha.ketterer@chron.com; Mason, Steve [mason.steve@epa.gov]; spill12@tceq.texas.gov; ryan.vise@tceq.texas.gov
Subject: ITC Media Release Statement 22
Attachments: ITC Media Release Statement 22.pdf

All,

Please see attached updated release.

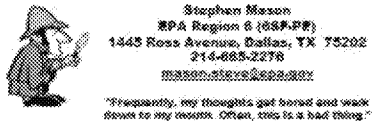
Regards,

ITC PIO Support Team

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/20/2019 2:15:04 AM
To: kendra.bernhagen@tceq.texas.gov
Subject: EMSI Monitoring

With Regards, Steve



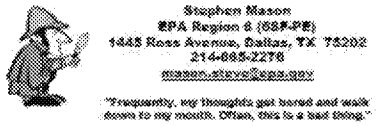
From: Mason, Steve
Sent: Tuesday, March 19, 2019 8:57 PM
To: Mike Taylor <mtaylor@iterm.com>; Adams, Adam <Adams.Adam@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>
Subject: EMSI Monitoring

Mike, I spoke with our Regional management this evening concerning the EMSI monitoring…

Can they please initially focus on the Manchester area (near Pasadena), and then also focus on immediate neighborhoods right around schools in Deer Park, Pasadena, Manchester, and La Porte…

Thanks for your help on this… let me know if you have any questions…

With Regards, Steve



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From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
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Subject: EMSI Monitoring

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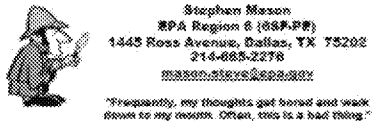

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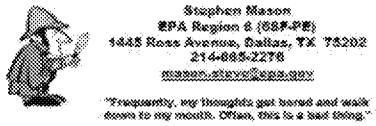

US Safety Data Sheet

Issued: June 1, 2015

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY

Product Name:	Oil Spill Eater II, OSE II
Product Code, GHS code: (Export Code)	3821000000
Product Type:	Hydrocarbon Bioremediation Product
Supplier:	Oil Spill Eater International Corporation
Address:	P.O. Box 515429 Dallas, Texas 75251 USA

Contact Numbers:

Telephone:	(972) 669-3390
Fax:	(469)241-0896
E-mail:	oseicorp@msn.com
Emergency Telephone Number:	(972) 669-3390
Emergency Covers:	24 hours a day 7 days a week

2. HAZARDOUS IDENTIFICATION

A. OSE II is not GHS controlled, does not contain hazardous or regulated ingredients

B. OSE II is not REACH registered, OSE II does not contain any hazardous or regulated ingredients

Human Health Hazards:	None. Potentially toxic if more than 1 liter ingested.
Safety Hazards:	Will not burn. Is, in fact, a fire retardant.
Environmental Hazards:	None. Protects environment; 100% biodegradable; no known allergens.

3. COMPOSITIONIINFORMATION ON INGREDIENTS

Preparation Description: A hydrocarbon bioremediation product containing all natural nonhazardous ingredients. Contains:

Ingredient		CAS Number
1) Water	80-90%	7732-18-5
2) Nitrogen (Urea)	0.01-0.09%	57-13-6
3) Molasses	1-2%	None
4) Bio Surfactant	0.06-0.08%	68131-40-8
5) Sugar	1.5%-2%	50-99-7
6) Protease	0.01-0.03%	9014-01-1
7) Amylase	0.01-0.03%	9000/90/2
8) Malt	1-2%	8029-43-4

4. FIRST AID MEASURES

Symptoms and Effects: Prolonged exposure would have minimal effect, if any at all.

First Aid - Inhalation: Inhalation of vapors from this product pose no acute or chronic hazard.

First Aid - Skin: Prolonged exposure to skin may cause some drying of the skin. Wash off with water.

First Aid - Eye: Flush eyes with copious quantities of water. If irritation persists, seek medical attention.

First Aid - Ingestion: If less than 59 ml / 2 ounces is ingested, no toxic symptoms should occur, to most humans Wash out mouth and seek medical attention if more than59ml or 2 ounces *is ingested.*

Advice to Physicians: Treat symptomatically. Wash skin or eyes thoroughly. Treat as you would for any large ingestion of mild soap or tooth paste.

5. FIRE FIGHTING MEASURES

Specific Hazards: OSE ll is a fire retardant. However, if applied to a burning fire, there can be a slight flash before fire goes out.

Extinguishing Media: None required. Product is a fire retardant. Method - ASTM-D56.

Unsuitable Extinguishing Media: None required. Product is a fire retardant.

Protective Equipment:	Proper protective equipment including breathing apparatus must be worn when approaching any fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with eyes. Wash from skin or eyes as needed.
Personal Protection:	Wear goggles if applying in windy conditions. Wear protective rubber gloves if applying directly in a prolonged situation.
Environmental Precautions:	Wash down with water. Will help clean soil, drains, or water.
Clean-up methods - small spillage:	Wash down with water. Non-toxic to the environment.
Clean-up methods - large spillage:	Same as for small spills.

7. HANDLING AND STORAGE

Handling:	When handling product in drums, safety Footwear should be worn. However No special handling procedures required.
Storage:	Keep in cool, dry area. A void direct sunlight and excessive heat.
Storage Temperatures:	Do not store where temperature exceeds 120 F.
Recommended Materials:	Polyethylene drums or PVC are acceptable.
Unsuitable Materials:	None known.
Other Information:	Product can freeze / thaw without any negative effect on product.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standards:	None established (none toxic).
Hygiene Measures:	Wash hands before eating or drinking.
Respiratory Protection:	Not normally required.
Hand Protection:	Any plastic or rubber glove if needed; not normally required.
Eye Protection:	Wear safety glasses or goggles if applying in windy conditions.
Body Protection:	Not normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid with the same density of H_2O.
Color:	Amber to brown.
Odor:	Some smell of ferment.
Vapor Pressure:	Same as H_2O.1.0215
Density:	Same as H_2O.1.0215
Vapor Density:	Same as H_2O.1.0215
Dropping Point:	Same as H_2O.
Flash Point:	Same as H_2O in excess of 7000°F.
Flammability Limit - Lower:	Nonflammable.
Flammability Limit - Upper:	Nonflammable.
Auto-ignition Temperature:	Non-igniting.
Solubility in Water:	100%
N-octanol/water Partition Coefficient:	100% soluble - non partitioning
Elements Content:	None.

10. STABILITY REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Temperatures in excess of 120° F and direct sunlight during storage or transporting.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	None decomposes to CO_2 and H_2O.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment:	Toxicity tests have been performed Determining OSE II is (virtually nontoxic).
Acute Toxicity - Oral:	Can become toxic if more than 60 ml ot 2 ounces is ingested.
Acute Toxicity - Dermal:	None.
Eye Irritation:	Slight irritant alleviated by copious eye washing.
Skin Irritation:	Skin can dry slightly if prolonged direct exposure occurs.
Respiratory Irritation:	Virtually none.
Skin Sensitization:	Not expected to be a skin sensitizer.
(Sub)chronic Toxicity:	None expected.
Carcinogenicity:	Not a carcinogen.
Mutagenicity:	Not a mutagenic.
Human Effects:	None expected.
Other Information:	Not applicable.

12. ECOLOGICAL INFORMATION

Basis for Assessment:	Ecotoxicological data has been determined specifically for this product. Information given is for specific sensitive (aquatic) species in fresh and salt water.

Mobility:	Liquid that floats on water and solubilizes rapidly. If it comes in contact with soil will percolate at the same rate as H_2O and will biodegrade rapidly.
PersistencelDegradability:	Product completely biodegrades in water or soil environments and will not persist. 100% biodegradable as testing has confirmed
Bioaccumulation:	None
Ecotoxicity:	100% soluble.
US EAP	**LC50 Brine shrimp:** >1,900 mg/l up to 10,000 mg/l. **LC50 Fundulus** Heterocletus 96 hour: 5,258 mg/l.
Environment Canada	**LC50 Rainbow Trout:**10,000 mg/l.
OSEI with the city of Plano, TX	**LC50 Fathead Minnows** (Pimephale promelas): 9,300 mg/l.
Australia NATA test results:	**IC10(milky oyster,** Saccostrea echinata): 11.0 (10.0-11.9)mg/l/48h **EC50(milky oyster,** Saccostrea echinata): 16.5 (16.0-17.1)mg/l/48h **NOEC(milky oyster,** Saccostrea echinata): 10.0mg/l **LOEC(milky oyster,** Saccostrea echinata): 20.0mg/l **EC10(mussel,** Mytilus galloprovincialis): >20.0mg/l/72h **EC50(mussel,** Mytilus galloprovincialis): >20.0mg/l/72h **NOEC(mussel,** Mytilus galloprovincialis): 20.0mg/l **LOEC(mussel,** Mytilus galloprovincialis): >20.0mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal:	No special disposal.
Product Disposal:	No special disposal.
Container Disposal:	No special disposal.
Local Legislation:	Not applicable.

14. TRANSPORT INFORMATION

Not dangerous for conveyance under UN, IMO, ADRIRID.

Marine Transport (IMO/IMDG): Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA): Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

IMDG Marine No

15. REGULATORY INFORMATION

GHS **not controlled, does not contain hazardous or regulated ingredients**

REACH **Not registered, OSE II does not contain any hazardous or regulated ingredients**

EC Classification:	Not Known.
EC Symbols:	Not Known.
EC Risk Phrases:	Not Known.
EINECS (EC):	Not Known.
TSCA (USA):	
Other Information:	US DOT class 55 non hazardous
Dangerous Constituents:	None.

16. OTHER INFORMATION

Only bioremediation product successfully used to permanently remove oil on U.S. navigable waters under U.S. EPA Government observation.

Government approvals or approved listings:	US EPA NCP # B53, New Zealand EPA SOS # *1001797,* *Australia #OBA* *Oil Spill Control agent Greek registration ID no:17554* *Gulf States MEMAC approval Ref:337/12-RHD,* *Philippine accreditation #PCG-14-06-112* *Nigeria NOSDRA cert: 189,* *Mexico Coatzacoalcos.Ver.,a 30 de Julio de 2014,* *Israel approval,* *UK approval #ODA 241/2015 ,* *Trinidad and Tobago approval#* *MEEA:12.1.5 Vol. XXXXII, South Korea cert no: S-007*
Uses and Restrictions:	Bioremediation product that converts hydrocarbons, chlorinated hydrocarbons, and most organic based material or waste to CO_2 and H_20.
Technical Contact Point:	Steven Pedigo
Technical Contact Number:	(972) 669-3390
Fax Number:	(469) 241-0896
E-Mail:	oseicorp@msn.com
SDS History:	Not Applicable
Revisions Highlighted	None.

last revision of SDS

Literature References

SDS Created: June 2015

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals. ...End Of MSDS...

The US Congress mandated through the Clean Water Act, that the US EPA would keep a list of products that may be legally used on US Navigable waters Oil Spill Eater II is on this NCP list

Link to the above regulation under the US Clean Water Act Law
http://www.epa.gov/oem/docs/oil/cfr/900_920.pdf

The EPA requires certain disclosures in regards to a product listing, and these requirements have been met with confusion even by other US departments, so the OSEI Corporation wants to have full disclosure of the law/regulations, the OSE II listing letter, the information maintained by the US EPA on their notebook, and the how to get on the list information for all to see.

Subpart J—Use of Dispersants andOther Chemicals

SOURCE: 59 FR 47453, Sept. 15, 1994, unless otherwise noted.

§ 300.900 General.

(a) Section 311(d)(2)(G) of the CWA requires that EPA prepare a schedule of dispersants, other chemicals, and other spill mitigating devices and sub-stances, if any, that may be used in carrying out the NCP. This subpart makes provisions for such a schedule.

(b) This subpart applies to the navigable waters of the United States and adjoining shorelines, the waters of the contiguous zone, and the high seas beyond the contiguous zone in connection with activities under the Outer Continental Shelf Lands Act, activities under the Deepwater Port Act of 1974, or activities that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States, including resources under the Magnuson Fishery Conservation and Management Act of 1976.

(c) This subpart applies to the use of any chemical agents or other additives as defined in subpart A of this part that may be used to remove or control oil discharges.

§ 300.905 NCP Product Schedule.

(a) *Oil Discharges.* (1) EPA shall maintain a schedule of dispersants and other chemical or bioremediation products that may be authorized for use on oil discharges in accordance with the procedures set forth in § 300.910. This schedule, called the NCP Product Schedule, may be obtained from the Emergency Response Division (5202–G), U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460. The telephone number is 703–603–8760.

(2) Products may be added to the NCP Product Schedule by the process specified in § 300.920.

(b) *Hazardous Substance Releases.* [Re-served]

[59 FR 47453, Sept. 15, 1994, as amended at 65 FR 47325, Aug. 2, 2000] **§ 300.91**

OIL SPILL EATER LISTING OF OSE II ON THE US EPA NCP LIST LETTER

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP 18 2009

OFFICE OF
SOLID WASTE AND
EMERGENCY RESPONSE

Mr. Steven Pedigo
Chairman/CEO
Oil Spill Eater International, Corp.
P.O. Box 515429
Dallas, TX 75251-5429

Dear Mr. Pedigo:

Thank you for providing the technical product data required by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300, for your product "Oil Spill Eater II (OSE II)." Our review shows that your submission has satisfied the requirements contained in Title 40 of the CFR section 300.915 of the NCP. Therefore, "Oil Spill Eater II (OSE II)" will be listed on the NCP Product Schedule under the Bioremediation Agent category and may be authorized for use by Federal On-Scene Coordinators in accordance with 40 CFR section 300.910. The technical data for this product will be kept on file by the EPA Office of Emergency Management, Regulation and Policy Development Division pursuant to 40 CFR section 300.920.

Enclosed are some of the relevant provisions in the NCP on restrictions regarding the listing of your product. Please note that you are required to notify the Environmental Protection Agency (EPA) of any changes in composition, formulation, handling procedures, or application of your product. Based on this notice, EPA may require retesting of the product.

Also note that the listing of "Oil Spill Eater II (OSE II)" on the NCP Product Schedule does not constitute approval, certification, authorization, licensing or promotion of the product; nor does it imply compliance with any criteria or minimum standards for such agents. Failure to comply with these restrictions or the making of any improper reference to EPA in an attempt to demonstrate approval or acceptance of the product will constitute grounds for removal of the product from the schedule.

Please review the enclosed information and contact Ms. Leigh DeHaven in the Office of Emergency Management at (202) 564-1974 if you have any questions.

Sincerely,

R. Craig Matthiessen, Director
Regulation and Policy Development Division
Office of Emergency Management

Enclosure

Internet Address (URL) ● http://www.epa.gov
Recycled/Recyclable ● Printed with Vegetable Oil Based Inks on 100% Postconsumer, Process Chlorine Free Recycled Paper

OIL SPILL EATER II TECHNICAL INFORMATION IN THE US EPA NOTEBOOK

LINK http://www2.epa.gov/emergency-response/oil-spill-eater-ii

OIL SPILL EATER II

Emergencies
Report oil or chemical spills at 800-424-8802
More ...

TECHNICAL PRODUCT BULLETIN #B-53
USEPA, OFFICE OF EMERGENCY MANAGEMENT
REGULATION AND POLICY DEVELOPMENT DIVISION
ORIGINAL LISTING DATE: AUGUST 26, 1996
REMOVAL DATE: AUGUST 16, 2005
RELISTING DATE: SEPTEMBER 18, 2009
"OIL SPILL EATER II (OSE II)"

I. NAME, BRAND, OR TRADEMARK
OIL SPILL EATER II (OSE II) Type of Product: Bioremediation Agent (Biological Enzyme Additive [previously listed as a Nutrient Additive])

II. NAME, ADDRESS, AND TELEPHONE NUMBER OF MANUFACTURER/CONTACT
OSEI Corporation (Formerly Sky Blue Chems) P.O. Box 515429 Dallas, TX 75251-5429

Phone: (972) 669-3390
E-mail: oseicorp@msn.com
Web Site: www.osei.us
(Mr. Steven Pedigo, Chairman, CEO, Inventor)

III. NAME, ADDRESS, AND TELEPHONE NUMBER OF PRIMARY DISTRIBUTORS

OSEI Corporation (Formerly Sky Blue Chems)
P.O. Box 515429
Dallas, TX 75251-5429
Phone: (972) 669-3390
E-mail: oseicorp@msn.com
Web Site: www.osei.us
(Mr. Steven Pedigo, Chairman, CEO, Inventor)

IV. SPECIAL HANDLING AND WORKER PRECAUTIONS FOR STORAGE AND FIELD APPLICATIONº

1. Flammability: Water-based, non-flammable
2. Ventilation: Needs no ventilation; aqueous-based product; does not emit hazardous vapors
3. Skin and eye contact; protective clothing; treatment in case of contact: OSE II is not a primary dermal irritant. Avoid eye contact, and wear goggles if possible for the spray to come in direct contact with eyes. Facilities for quick and copious eye flushing should be provided and prompt medical attention should be sought if exposure and irritation persists. Protective rubber gloves are suggested during handling. Before mixing the product has a smell of fermentation. The product does not give off any harmful vapors.
4.a. Maximum storage temperature: 120ºF
4.b. Minimum storage temperature: None; OSE II can freeze and thaw without adverse effects
4.c. Optimum storage temperature range: 72ºF
4.d. Temperatures of phase separations and chemical changes: 120ºF

V. SHELF LIFE

OSE II has a recommended shelf life of 5 years. After 5 years at optimum storage temperature, there is an approximate 10% decrease per year in product capability.

VI. RECOMMENDED APPLICATION PROCEDURE

1. Application Method:
A. Use surface spray apparatus, such as small hand held tanks, back pack, large mixing tanks with mechanical pumping devices, vessels with booms for spraying wide paths, or spray devices on airplanes or helicopters.
B. OSE II can be applied by eductor systems from vessels, fire trucks, etc. Set the eductor system to 2% and apply 1 gallon of mixed OSE II to each spilled gallon of hydrocarbon.

2. Concentration/Application Rate:
General - OSE II generally takes 3 to 30 minutes to penetrate the molecular walls of hydrocarbons. However, once you spray OSE II on the hydrocarbons, OSE II attaches itself and will eventually engulf the hydrocarbons regardless of where the hydrocarbons may spread on the surface of salt or fresh water. Additionally, once you spray OSE II, the hydrocarbons cannot attach itself to the shoreline, rocks, or any equipment in its path. OSE II breaks down the adhesion properties of hydrocarbons and causes hydrocarbons to float, thereby, eliminating secondary contamination of the water column or any other areas, and holding the contaminated area to the waters surface, the original contaminated area.

- If OSE II is to be used on ocean spills or on intertidal zones OSE II should be mixed with ocean water.
- If OSE II is to be used on lakes, rivers, streams, ponds, or on land mix the product with water from a lake, stream, or pond.
- If you are performing a clean up, make sure the water used to mix with OSE II, and the water used to keep the area saturated, is the type of water normally associated with that area.
- If you use fresh water in an area normally contacted with salt water or vice versa, the different types of bacteria and competition could occur, not to mention the problems with salinity for fresh water organisms.

[Note: Do not mix tap water with OSE II if possible: Chlorine in tap water slows bacterial enhancement]

Spills on Water:
Dilute each gallon of OSE II with 50 gallons of fresh, brackish, or salt water - depending on the water associated with the area that has been impacted by the spill. Apply OSE II at a ratio of 1 gallon mixed OSE II to each gallon of hydrocarbon spilled. Apply using hand held sprayers, tank sprayers, booms from vessels, helicopters, or airplanes; by spraying the perimeter first then working toward the middle of the spilled area. Next spray the entire surface of the spill. If the spill is very heavy (more than 2 inches thick) it is recommended that OSE II be applied every day until you have met a 1:1 ratio of OSE II and water mixture to spilled oil/hydrocarbons.

- Use 1 gallon OSE II for every 50 gallons of hydrocarbons.
- Use 1 drum of OSE II for every 2,750 gallons of hydrocarbons.
- If you know gallons of hydrocarbons spilled, multiply gallons of hydrocarbons by 0.02 to get amount of OSE II needed [gallons of hydrocarbons x 0.02 = gallons of OSE II].
- If you know barrels of crude oil spilled, multiply barrels of crude oil by 0.015 to get drums of OSE II needed [barrels of crude oil x 0.015 = drums of OSE II].
- If you do not know gallons of hydrocarbons or barrels of crude oil, multiply size of spill by 0.0023 to get drums of OSE II needed or by 0.12 to get gallons of OSE II needed [(yards long x yards wide x inches thick) x 0.0.0023 = drums of OSE II or (yards long x yards wide x inches thick) x 0.015 = gallons of OSE II].

Intertidal Zone:
Mix each 55 gallon drum of OSE II with 2,750 gallons of fresh, brackish, or salt water. The water used is determined by the type of water associated with the site. OSE II should be applied as the tide recedes (if there is a tide) and once the tide comes in the application should cease until the tide recedes again. Additional applications should only be warranted if spill has been allowed time to percolate into the depths of the soil.

If there is no tide, but waves have pushed the spill into the intertidal zone, then there will be direct access to the spill at all times. If possible use string or stakes to grid off the beach or intertidal zone area, and then you can calculate how much premixed OSE II to apply to a given area. If unable to grid off an area then calculate how much OSE II to apply and then determine how much premixed OSE II will flow through a nozzle (gallons per minute) then let application technician know how many gallons to apply in a given area and this can be determined by applying product for a certain time period to get the correct amount of OSE II applied to gain the 1:1 ratio.

Note: If the intertidal zone is associated with the sea then mix OSE II with salt water. If the spill area is in an area of brackish water then mix OSE II with brackish water. If the intertidal zone is associated with fresh water such as lakes, rivers, streams, ponds, creeks, aquifers, or drinking water wells then use fresh water to mix OSE II.

3. Conditions for Use:

- OSE II can remediate hydrocarbon-based material including chlorinated hydrocarbons, PCB's, dioxins, and some pesticides.
- As the age of spilled hydrocarbons increases, the time necessary for bioremediation increases. In general, fresh crude, gasoline of BTEX takes from 72 hours to 30 days to completely bioremediate.
- Variations of sea water salinity should have no effect, but as long as microbial life can exist, then OSE II will be effective.
- OSE II bioremediation slows somewhat at temperatures below 40ºF. OSE II however, will continue to work at any liquid water temperature that will sustain microbial life.

VII. TOXICITY AND EFFECTIVENESS

a. Effectiveness:
Summary Data Table:

DAYS	PRODUCT 3 REPS/PROD	TOTAL MEAN ALKANES (ppm)	RED% 28 DAYS	TOTAL MEAN AROMATICS (ppm)	RED% 28 DAYS
	CONTROL	43,170	-	11,435	-
0	NUTRIENT	40,569	-	11,785	-
	OSE II	41,730	-	12,155	-

7	CONTROL	39,250	9.1	10,355	9.4
	NUTRIENT	34,815	14.2	9,898	16.0
	OSE II	26,316	36.9	8,072	33.6
28	CONTROL	35,797	17.1	9,534	16.6
	NUTRIENT	26,507	34.7	8,938	24.2
	OSE II	4,273	89.8	1,268	89.6

Results of Gravimetric Analysis:
Percentage (%) Decrease in Weight of Oil on Day 28
Control: 16.5%
Nutrient: 52.0%
Product: 85.4%

VIII. MICROBIOLOGICAL ANALYSIS

1. Listing of each component of the total formulation, other than enzymes, by chemical name and percentage by weight: CONFIDENTIAL
2. Enzyme Names: CONFIDENTIAL
3. I.U.B.: CONFIDENTIAL
4. Source of Enzymes: Fermentation process
5. Units: No less than 1% and no more than 50% by weight
6. Specific Gravity: 1.05
7. Optimum Conditions:
    a. pH: 7.0
    b. Temperature: 72ºF
    c. Salinity Ranges: Fresh water to salt water
    d. Maximum and Minimum pH: 3.5 - 8.0
    e. Maximum and Minimum Temperature: 28ºF - 128ºF
    f. Maximum and Minimum Salinity Levels - Salinity level above that will support microbial activity will adversely effect OSE II's performance
    g. Enzyme Shelf Life: Up to 5 years when properly stored
    h. Enzyme Optimal Storage Conditions: 72ºF is optimal, enzyme range is freezing to 120ºF, never leave OSE II in direct sunlight for more than a couple of hours

IX. PHYSICAL PROPERTIES

NA

X. ANALYSIS OF HEAVY METALS, CYANIDE, AND CHLORINATED HYDROCARBONS

NA

Last updated on Tuesday, October 13, 2009
http://www.epa.gov/emergencies/content/ncp/products/oseater.htm

How to get a product on the US EPA NCP list

http://www2.epa.gov/emergency-response/national-contingency-plan-subpart-j#howto
Emergency Response National Contingency Plan Subpart J

One of EPA's top priorities is to prevent, prepare for, and respond to oil spills that occur in and around inland waters of the United States. EPA is the lead federal response agency for oil spills occurring in inland waters. The U.S. Coast Guard is the lead response agency for spills in coastal waters and deepwater ports. Subpart J of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) directs EPA to prepare a schedule of dispersants, other chemicals, and oil spill mitigating devices and substances that may be used to remove or control oil discharges.

NCP Product Schedule

Environmental Monitoring for Atypical Dispersant Operations: Including Guidance for Subsea Application and Prolonged Surface Application Revisions to Subpart J of the NCP under Consideration

NCP Product Schedule Technical Notebook How to List a New Product on the NCP Product Schedule

NCP Subpart J Regulations Effectiveness and Toxicity Testing Disclaimer Information For More Information

The NCP Product Schedule (April 2014) (PDF) is also available for download in its entirety.

EPA maintains the NCP Product Schedule, which lists the following types of products that are authorized for use on oil discharges:

Bioremediation agents Dispersants Surface washing agents Surface collecting agents Miscellaneous oil spill control age

See Definitions of Product Categories See Alphabetical List of NCP Product Schedule Products with Links to Technical Product Summaries

Design for the Environment

Note: Products may be eligible for recognition by EPA's Design for the Environment (DfE) Program as a safer oil spill treatment. The DfE Program labels products that have met its stringent criteria for human health and environmental safety.

NCP Product Schedule Technical Notebook

The NCP Product Schedule Technical Notebook (April 2014) (PDF) presents **manufacturer's** summary information on the conditions under which each of the products is recommended to be used. **Manufacturer** information may provide handling and worker precautions, storage information, recommended application procedures, physical properties, and toxicity, effectiveness, or other analyses.

Disclaimer: The listing of a product on the Product Schedule does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of the product on an oil discharge. The listing means only that data have been submitted to EPA as required by Subpart J of the National Contingency Plan, Section 300.915. (Source: 40 CFR § 300.920 (e))

There is an established process that manufacturers must follow to have a product listed on the NCP Product Schedule.

Begin by reviewing data requirements in section 300.915 of Subpart J of the NCP Product Schedule.

Determine product category (e.g., dispersant, surface washing agent, etc.)

Fulfill each of the data requirements for selected product category, including effectiveness and toxicity testing (if applicable). If you need assistance locating a laboratory to help fulfill these requirements, please call the NCP Product Schedule Information Line.

Send a hard copy of **all** data requirements for review to: NCP Product Schedule Manager U.S. Environmental Protection Agency Ariel Rios North Building - Mail Code 5104-A Room 6450T Washington, D.C. 20460

If you have further questions or require more information, please call the NCP Product Schedule Information Line.

Subpart J Regulations

EPA is currently making revisions to the Subpart J regulation to clarify and update the Product Schedule listing procedures. These updates may include effectiveness and toxicity testing. Once the proposed rule is posted to the docket, there will be a public comment period for providing questions and concerns. The compiled comments will be addressed in the final rule. Office of Management and Budget Agenda: Revisions to the National Oil and Hazardous Substances Pollution Contingency Plan; Subpart J Product Schedule Listing Requirements.

NCP Subpart J: Use of Dispersants and Other Chemicals - 40 CFR 300.900 - 300.920 (PDF)

NCP: Definitions - 40 CFR 300.5 (PDF)

Relevant Federal Register Notices

Effectiveness and Toxicity Testing

For the products on the schedule, EPA provides NCP Product Schedule Toxicity and Effectiveness Summaries for each product category. Appendix C to 40 CFR part 300 describes methods for required effectiveness and toxicity tests for specific product categories. See: 40 CFR part 300 Appendix C | PDF (22 pp, 284 K, About PDF)

The listing of a product on the NCP Product Schedule does not constitute approval of the product. To avoid possible misinterpretation or misrepresentation, any label, advertisement, or technical literature that refers to the placement of the product on the NCP Product Schedule must either reproduce in its entirety EPA's written statement that it will add the product to the NCP Product Schedule under Sec. 300.920(a)(2) or (b)(2), or include the disclaimer shown below. If the disclaimer is used, it must be conspicuous and must be fully reproduced. Failure to comply with these restrictions or any other improper attempt to demonstrate the approval of the product by any National Response Team (NRT) or other U.S. Government agency shall constitute grounds for removing the product from the NCP Product Schedule. [40 CFR 300.920(e)]

[PRODUCT NAME] is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of [PRODUCT NAME] on an oil discharge. This listing means only that data have been submitted to EPA as required by subpart J of the National Contingency Plan, Sec. 300.915.

The US Congress required the US EPA to keep a list of products that can be legally used on US Navigable waters, which is why there is a an NCP list.

Message

From: Nicole Bealle [Nicole.Bealle@tceq.texas.gov]
Sent: 3/18/2019 2:19:17 PM
To: Ryan Vise [Ryan.Vise@Tceq.Texas.Gov]
CC: Mason, Steve [mason.steve@epa.gov]; Assunto, Carmen [Assunto.Carmen@epa.gov]
Subject: Re: Draft Press Release Statement 6

Received. Thank you.

On Mar 18, 2019, at 9:14 AM, Ryan Vise <Ryan.Vise@tceq.texas.gov> wrote:

Good here.

Sent from my iPhone

On Mar 18, 2019, at 8:23 AM, Mason, Steve <mason.steve@epa.gov> wrote:

> Here is the most recent draft Press release… can you please review and provide comments back ASAP… thanks…
>
> We will ask them to fix "well-being"
>
> *With Regards, Steve*
> <image003.jpg>
>
> **From:** Jane Chaya <JCHAYA@iterm.com>
> **Sent:** Monday, March 18, 2019 8:19 AM
> **To:** Mason, Steve <mason.steve@epa.gov>; spill12@tceq.gov
> **Cc:** harrison.reback@bakerbotts.com; ITC Incident <itcincident@iterm.com>; ITC Cares <ITCCares@iterm.com>; dale@samuelsen.com
> **Subject:** Draft Press Release Statement 6
>
> To whom it may concern,
>
> Draft press release statement for your review/approval.
>
> Regards,
>
> PIO Support Team
> <ITC Press Release Statement #6 - Draft.pdf>

Message

From: Ryan Vise [Ryan.Vise@Tceq.Texas.Gov]
Sent: 3/18/2019 2:14:55 PM
To: Mason, Steve [mason.steve@epa.gov]
CC: Assunto, Carmen [Assunto.Carmen@epa.gov]; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]
Subject: Re: Draft Press Release Statement 6

Good here.

Sent from my iPhone

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> <image003.jpg>
>
> **From:** Jane Chaya <JCHAYA@iterm.com>
> **Sent:** Monday, March 18, 2019 8:19 AM
> **To:** Mason, Steve <mason.steve@epa.gov>; spill12@tceq.gov
> **Cc:** harrison.reback@bakerbotts.com; ITC Incident <itcincident@iterm.com>; ITC Cares <ITCCares@iterm.com>; dale@samuelsen.com
> **Subject:** Draft Press Release Statement 6
>
> To whom it may concern,
>
> Draft press release statement for your review/approval.
>
> Regards,
>
> PIO Support Team
> <ITC Press Release Statement #6 - Draft.pdf>

Message

From: Curry, Tim [Curry.Timothy@epa.gov]
Sent: 4/3/2019 7:46:03 PM
To: Mason, Steve [mason.steve@epa.gov]
Subject: RE: ASPECT Update 4 -- 3 April 2019

Sorry I thought I took you off but there you still were

From: Curry, Tim
Sent: Wednesday, April 03, 2019 2:44 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Loesel, Matthew <loesel.matthew@epa.gov>; 'Daniel Tighe' <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; John Martin <Martin.John@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT Update 4 -- 3 April 2019

Team,

See the attached draft report for the ASPECT ITC data acquisition mission this morning. Please review and send me comments/corrections by 0900 on 4/4/2019. I will incorporate comments and finalize the report by noon. Data from this flight has been downloaded. Once the final processing of the data is complete the data viewer link will be updated to include this latest information. Please call my cell phone if you have any questions.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Wednesday, April 03, 2019 10:48 AM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>

Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT Update 3 -- 3 April 2019

Team,

The data acquisition at ITC is complete. Attached are the files for the flight path with data collection markers, an ortho-rectified aerial image of the tank farm, obliques of the tank farm, and infrared line scanner image of the tank farm. Since there were no automated detection alarms the crew has been authorized to copy data and land. A report will be drafted and submitted approximately early afternoon.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Wednesday, April 03, 2019 10:18 AM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT Update 2 -- 3 April 2019

Team,

The data acquisition passes over the ITC tank farm have been completed. There have been no detection alarms for the pattern recognition compound list. They will complete the data acquisition over the confluence area next.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Wednesday, April 03, 2019 8:33 AM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish

<patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: ASPECT Update 1 -- 3 April 2019

Team,

The ASPECT flight this morning will be a mixed mission flight. Initially the target survey area will be at the KMCO facility. Once that data acquisition is complete we will close out the mission and start a new one for the ITC site. At ITC we will continue the target areas as usual, the tank farm, the downwind area and the confluence area. If there are other target areas or questions please let me know. I can be reached best using my cell phone number.

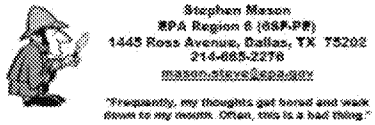
Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/18/2019 1:55:48 PM
To: Assunto, Carmen [assunto.carmen@epa.gov]; ryan.vise@tceq.texas.gov
Subject: RE: Draft Press Release Statement 6

Thank you

With Regards, Steve



From: Assunto, Carmen
Sent: Monday, March 18, 2019 8:43 AM
To: Mason, Steve <mason.steve@epa.gov>; ryan.vise@tceq.texas.gov
Subject: RE: Draft Press Release Statement 6

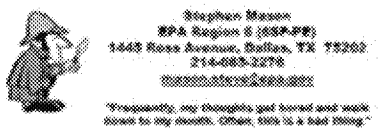
No comments. Thank you. Carmen

From: Mason, Steve
Sent: Monday, March 18, 2019 8:23 AM
To: ryan.vise@tceq.texas.gov
Cc: Assunto, Carmen <Assunto.Carmen@epa.gov>
Subject: FW: Draft Press Release Statement 6

Here is the most recent draft Press release… can you please review and provide comments back ASAP… thanks…

We will ask them to fix "well-being"

With Regards, Steve



From: Jane Chaya <JCHAYA@iterm.com>
Sent: Monday, March 18, 2019 8:19 AM
To: Mason, Steve <mason.steve@epa.gov>; spill12@tceq.gov
Cc: harrison.reback@bakerbotts.com; ITC Incident <itcincident@iterm.com>; ITC Cares <ITCCares@iterm.com>; dale@samuelsen.com
Subject: Draft Press Release Statement 6

To whom it may concern,

Draft press release statement for your review/approval.

Regards,

PIO Support Team

Message

From: Assunto, Carmen [Assunto.Carmen@epa.gov]
Sent: 3/18/2019 1:43:16 PM
To: Mason, Steve [mason.steve@epa.gov]; ryan.vise@tceq.texas.gov
Subject: RE: Draft Press Release Statement 6

No comments. Thank you. Carmen

From: Mason, Steve
Sent: Monday, March 18, 2019 8:23 AM
To: ryan.vise@tceq.texas.gov
Cc: Assunto, Carmen <Assunto.Carmen@epa.gov>
Subject: FW: Draft Press Release Statement 6

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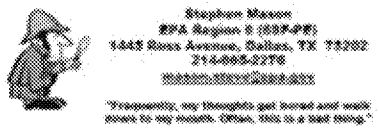


From: Jane Chaya <JCHAYA@iterm.com>
Sent: Monday, March 18, 2019 8:19 AM
To: Mason, Steve <mason.steve@epa.gov>; spill12@tceq.gov
Cc: harrison.reback@bakerbotts.com; ITC Incident <itcincident@iterm.com>; ITC Cares <ITCCares@iterm.com>; dale@samuelsen.com
Subject: Draft Press Release Statement 6

To whom it may concern,

Draft press release statement for your review/approval.

Regards,

PIO Support Team

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/18/2019 1:23:02 PM
To: ryan.vise@tceq.texas.gov
CC: Assunto, Carmen [assunto.carmen@epa.gov]
Subject: FW: Draft Press Release Statement 6
Attachments: ITC Press Release Statement #6 - Draft.pdf

Here is the most recent draft Press release… can you please review and provide comments back ASAP… thanks…

We will ask them to fix "well-being"

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

From: Jane Chaya <JCHAYA@iterm.com>
Sent: Monday, March 18, 2019 8:19 AM
To: Mason, Steve <mason.steve@epa.gov>; spill12@tceq.gov
Cc: harrison.reback@bakerbotts.com; ITC Incident <itcincident@iterm.com>; ITC Cares <ITCCares@iterm.com>; dale@samuelsen.com
Subject: Draft Press Release Statement 6

To whom it may concern,

Draft press release statement for your review/approval.

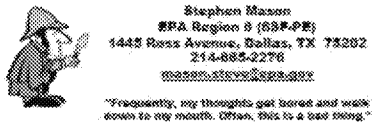
Regards,

PIO Support Team

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/18/2019 1:21:07 PM
To: spill12@tceq.texas.gov
Subject: FW: Draft Press Release Statement 6
Attachments: ITC Press Release Statement #6 - Draft.pdf

With Regards, Steve



From: Jane Chaya <JCHAYA@iterm.com>
Sent: Monday, March 18, 2019 8:19 AM
To: Mason, Steve <mason.steve@epa.gov>; spill12@tceq.gov
Cc: harrison.reback@bakerbotts.com; ITC Incident <itcincident@iterm.com>; ITC Cares <ITCCares@iterm.com>; dale@samuelsen.com
Subject: Draft Press Release Statement 6

To whom it may concern,

Draft press release statement for your review/approval.

Regards,

PIO Support Team

Message

From: Jane Chaya [JCHAYA@iterm.com]
Sent: 3/18/2019 7:43:36 PM
To: Mason, Steve [mason.steve@epa.gov]; spill12@tceq.texas.gov
CC: harrison.reback@bakerbotts.com; ITC Incident [itcincident@iterm.com]; ITC Cares [ITCCares@iterm.com]; dale@samuelsen.com
Subject: RE: Draft Media Release Statement 7
Attachments: ITC Press Release Statement #7 - Draft.pdf

To whom it may concern,

Draft media release statement for your review/approval.

Regards,

PIO Support Team

Intercontinental Terminals Company LLC
P.O. Box 698 Deer Park, Texas 77536-0698
(281) 884-0300

Public Information Officer Update
Fire Reported at ITC – Media Release Statement 7

For Immediate Release

LA PORTE, Texas, March 18, 2019 – (UPDATE – This is a 3:00 PM update regarding the fire at the Intercontinental Terminals Company (ITC) LLC in La Porte, Texas:

ITC is releasing to the public the environmental reporting issued by the *Center for Toxicology and Environmental Health, LLC.* (CTEH)*

According to the air quality, all detections recorded by CTEH were below levels that would represent a public health concern.

Emergency responders continue working on suppressing the fire on tanks 80-2, 80-5 and 80-11 where flare ups are intermittent. Emergency responders continue to work with foam and water to control and prevent the fire from spreading.

We continue to take precautions to further reduce the risk of explosion. All personnel are accounted for and there have been no injuries reported as a result of this incident.

ITC officials continue to work closely with first responders to contain the fire and to be transparent with the community regarding this incident. The safety and well-being of the surrounding communities, our employees, our first responders, and the environment remain our top priorities. We will provide additional updates as more information becomes available.

ITC is coordinating its response with representatives of the Texas Commission on Environmental Quality, the US Environmental Protection Agency, the US Coast Guard, Harris County and other Federal, State and local agencies.

Please contact PIO Support Team at 832.780.6739 at Intercontinental Terminals Company for additional information.

Twitter - @CaresITC
E-mail inquiries: ITCCares@iterm.com

*See attached report

Message

From: Eric Callahan [ecallahan@cteh.com]
Sent: 3/18/2019 6:03:33 AM
To: Mason, Steve [mason.steve@epa.gov]
CC: Justin Langley [jlangley@cteh.com]
Subject: RE: 111356 - ITC Deerpark Fire CTEH Project Website Access

Steve,

Justin has requested that I grant you access to the CTEH project website for the Deerpark incident. The site will provide you with air monitoring data when it is recorded as well as project notes and photos. Your login is your e-mail address, and your password is below:

Password: ITCDeerPark2019!

https://projects.cteh.com/plans/2015/dashboard

If you have any questions or difficulty logging in please let me know.

Thank you,

Eric Callahan
Data Manager
CTEH, LLC
Mobile: 501-366-1525 | Office: 501-801-8500
Emergency Response 24-Hour Hotline: +1(866) 869-2834
ecallahan@cteh.com | www.cteh.com

Message

From: Jane Chaya [JCHAYA@iterm.com]
Sent: 3/18/2019 1:18:42 PM
To: Mason, Steve [mason.steve@epa.gov]; spill12@tceq.gov
CC: harrison.reback@bakerbotts.com; ITC Incident [itcincident@iterm.com]; ITC Cares [ITCCares@iterm.com]; dale@samuelsen.com
Subject: Draft Press Release Statement 6
Attachments: ITC Press Release Statement #6 - Draft.pdf

To whom it may concern,

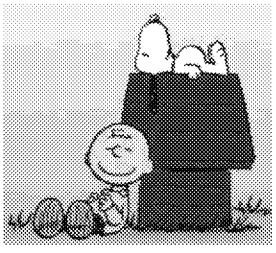
Draft press release statement for your review/approval.

Regards,

PIO Support Team

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/2/2019 2:10:27 AM
To: Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Rouse, Philip [rouse.philip@epa.gov]; Fisher, Kelsey [fisher.kelsey@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Blaze, Stephen [Blaze.Stephen@epa.gov]; Acevedo, Janie [acevedo.janie@epa.gov]; Assunto, Carmen [assunto.carmen@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]; Moore, Gary [moore.gary@epa.gov]; anthony.buck@tceq.texas.gov; travis.lay@tceq.texas.gov; jenniffier.hawes@dps.texas.gov; Curry, Tim [Curry.Timothy@epa.gov]; SCowan@dynamac.com; Alice Richardson [ARICHARDSON@iterm.com]; carlton.porter@tceq.texas.gov; bianca.lopez@tceq.texas.gov; Franklin, Richard [Franklin.Richard@epa.gov]; gabrielle.mayworn@tceq.texas.gov
CC: Latham, Benjamin [Benjamin.Latham@WestonSolutions.com]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]; Paige.Doelling@noaa.gov; Neil Daniell [NDaniell@css-inc.com]; Brescia, Nicolas [brescia.nicolas@epa.gov]
Subject: Daily Stress Relief -- Tip for the Day # 11

some has 

Be silent. Plan for a time when you can completely disconnect.

Even if it is for 5-10 minutes per day. If you are staying in the hotel or at home, consider a ten-minute hot bath at the end of each shift.

There's evidence that too much noise can boost our stress levels, so schedule silent time among all the craziness of this event. Besides giving our ears a break, silence been shown to offer significant health advantages that boost overall well-being.

From a physiological standpoint, silence helps: Lower blood pressure, which can help prevent heart attack; Boost the body's immune system; Benefit brain chemistry by growing new cells; Decrease stress by lowering blood cortisol levels and adrenaline; Promote good hormone regulation and the interaction of bodily hormone-relate systems; and even Prevent plaque formation in arteries.

That means phone off, no emails, no TV, no news, nothing. Especially don't spend a lot of time reading about the incident. You get enough of it during your working time.

And if you ever need to just talk, give me a call… 214-789-1871 or Monica at 469-766-3398

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have

<u>This May be the Most Important One.</u>

During a disaster response, such as this, you may build friendships you did not before, working with people from other areas, or even other programs within your entity.

That's a good thing.

But just as importantly, it is easy to ruin a friendship during stressful times also.

If you want to still be a friend after this is over with, treat your friends with respect, and do not jump on them just because things are not much fun.

Your real friends will be here for you now, and in the future… as long as you don't run them off…

---

to we all

Play around (just not too much!). Kids and animals seem to have a natural ability play, without stressing about their overflowing inboxes or the beat-down meetings and conference calls.

Until upper management authorizes cookies, milk, and nap time each afternoon, have to take personal responsibility to relax.

Watch a sitcom or movie after work.

And if you go to dinner together, force yourselves not to talk about work, the disaster, or other things that just keep you frustrated.

But be a little careful… while you may think a good practical joke will lighten the mood in the work area, understand some people do not have a sense of humor…

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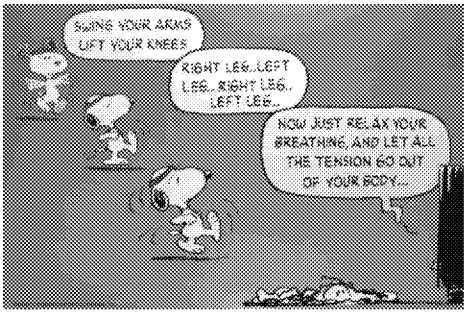
also a



and

relax.

Learn to breathe. This sounds too simple, but a useful tool to prevent panic attacks or reduce peaks of stressfulness, the breath is great marker of where your anxiety level is at throughout the day.

Short, shallow breaths signify stress and anxiety in the brain body.

On the flip side, consciously breathing, plus lengthening and strengthening the breath helps send signals to the brain that it's okay to

So if you find yourself stressed out, find a quiet, comfortable place to sit down. take a normal breath then try a deep breath, breathe in slowly through your nose, allowing your chest and lower belly to rise as you fill your lungs, let your abdomen expand fully, and now breathe out slowly through your mouth (or your nose, if that feels more natural).

As you sit comfortably with your eyes closed, deep breathing with, get your mind off the things making you stress out.

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tarts).

for

Eat right. Anxiety can throw our bodies totally out of whack: Our appetite might change, or we might crave certain foods (mine has been powdered donuts and Sweet-

But to give the body the support it needs, try eating more of foods that contain nutrients such as vitamin B and omega-3s (polyunsaturated fats, that actually are not bad us), plus some healthy whole-grain carbohydrates.

Studies have linked vitamin B with good mental health, and omega-3s may help reduce symptoms of depression and anxiety. Whole-grain carbs help regulate levels of serotonin, the "feel-good" neurotransmitter that helps us remain calm.

And even though our cravings might be telling us otherwise, research suggests that eating sugary and processed foods can increase symptoms of anxiety (not to mention adding weight).

16

that

that

don't

We're in this together. So now you're going to be working next to someone 12-14-hours a day for two weeks (or more). And maybe sharing very close working quarters with person. How do you keep from killing each other?

There is no sure fire method, but there are some simple things to keep in mind may help. First remember, all of you in the field have some common/shared thoughts: I want to be here (none of us wanted this to happen); I want to go home; and I'm tired.

So when dealing with others in the field, remember that other person is probably thinking the same thing you are. Also, do not keep things bottled up and let them fester. Talk through little issues to ensure they do not grow into big ones. When you have down time (which isn't much), get to know the other person (hobbies, family, previous experiences, etc.) so you better understand them.

Every once in a while, take a separate vacation – while you have to work together, doesn't mean you have to be together every minute of the day. And, finally, each person deals with stress differently… **Look out for each other**.

Express gratitude. Studies have found expressing gratitude helps reduce anxiety, especially when we're well-rested.

So when someone fulfills a request from you, make sure you thank them for the effort.

But there are other times when we don't think about saying "thanks," which is appropriate or can actually defuse others…

When you're receiving a compliment; When you're running late (thank others for being patient); When you're comforting someone (for sharing what they're going through); When you're receiving helpful feedback; When you're receiving unfair criticism (this will many times stop them from continuing); When someone gives you unsolicited advice (also helps to stop them); and When you're not sure if you should thank someone.

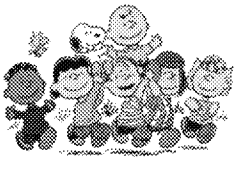
De-clutter the brain. Physical clutter = mental clutter.

A messy workspace can make it more difficult to relax and make it seem like our work is never-ending.

So take a few minutes every day or so to tidy up the work area, and then make a habit of keeping things clean and anxiety-free.

If you no longer need a document, file it with the Documentation Unit to help clear off your desk or table.

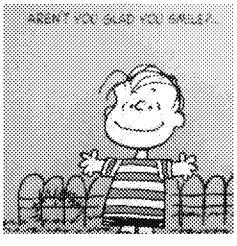
It'll help us think rationally, and there won't be as much room for anxiety.



Turn it Off. Research reveals that people who use electronic devices (television, phones, tablets, etc.) up to the minute they go to bed are sacrificing a more restful sleep. The visual stimulation to your brain takes a while to wind down.

So, to get more rest, turn off that stimulation at least 30 minutes before you try to go to sleep. Instead, open up a fiction book that you have wanted to read, and read a chapter or two until you are ready to close your eyes.

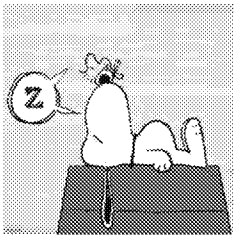
And bad news, ebook devices are just as bad as the TV or laptop. So break out the old but trusty paper book. And while it is simple, and may sound silly, if you had a favorite comic strip when you were younger (Garfield, Bloom County, Peanuts), go to a book store and find a compilation of those to re-discover. Not only may they bring a smile before bed, they may even trigger fond memories of your childhood!



<u>Smile.</u> I am sure all of us will sooner or later will get down from the long hours, stress, being away from home, etc.

When work has got you down, it's a good idea to take a quick break to relieve stress by finding the humor in your life.

Research suggests that laughter can reduce symptoms of depression and anxiety, so consider checking out a funny clip on the internet, remembering your favorite joke, or simply think of funny things that may have happened in past incidents, to help relieve the stress.



Get enough sleep. OK, don't laugh… I know how hard this can be. But, inconsistent sleep can have some serious consequences. Not only does it affect our physical health, but lack of sleep can also contribute to overall anxiety and stress.

And sometimes it turns into a vicious cycle, since anxiety often leads to disruptions in sleep. Especially when feeling anxious, try to get a few more minutes of sleep. If it is possible, when exhausted, try to just take a quick 15 minute nap somewhere.

With Regards, Steve

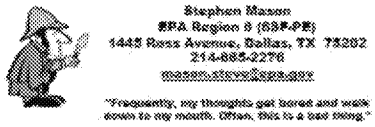
Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/2/2019 12:29:39 AM
To: Smith, Monica [smith.monica@epa.gov]
Subject: FW: Period 9 Incident Action Plan (IAP)
Attachments: Period 9 IAP.pdf

With Regards, Steve



From: Savannah Turner <STurner@responsegroupinc.com>
Sent: Monday, April 01, 2019 1:16 AM
To: spill12@tceq.texas.gov; matthew.kuryla@bakerbotts.com; Paige.Doelling@noaa.gov; hdubach@ctehrm.com; cholley@iterm.com; bweber@iterm.com; david.wade@oem.hctx.net; dwascome@iterm.com; bnetland@iterm.com; Nicole.d.rodriguez@uscg.mil; Loesel, Matthew <loesel.matthew@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; Jessica.l.wissmann@uscg.mil; Mason, Steve <mason.steve@epa.gov>; Tilly19@gmail.com; Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; runninmiles@yahoo.com; mescoto@iterm.com; richard.lawhorn@fmo.hctx.net; peter.marsey@cardno.com; caren.C.Damon@uscg.mil; joel.s.ferguson@uscg.mil; nwilson701@gmail.com; cameron.dews@pcs.hctx.net; anthony.buck@tceq.texas.gov; Spall, Amy <amy.spall@westonsolutions.com>; CGITCResponse@gmail.com
Subject: Period 9 Incident Action Plan (IAP)

Good Evening,

Please see attached for the approved Period 9 IAP.

Period 9 Operational Period: [04/01/2019 07:00 – 04/03/2019 07:00]

Best Regards,

Savannah Turner
Current Night-Shift Planning Section Chief

Message

From: Young, Patrick [young.patrick@epa.gov]
Sent: 4/1/2019 9:57:07 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; michael.k.sams@uscg.mil; Mason, Steve [mason.steve@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; ran2@cdc.gov; Renee Funk (CDC/ONDIEH/NCEH) [rjf8@cdc.gov]; Jack Hanley [jah8@cdc.gov]; Maureen F. Orr (ATSDR/DTHHS/EHSB) [mco0@cdc.gov]; dth9 [dth9@cdc.gov]; jlf1 [jlf1@cdc.gov]
CC: Mark Ryan [MRyan@lsuhsc.edu]; fred.schuster@hhs.gov; Mehran.Massoudi@hhs.gov; Amyo.Taylor@hhs.gov; Christine Hanson [christine.hanson@fema.dhs.gov]
Subject: Fwd: Deer Park Fire SITREP #8 April 1, 2019
Attachments: TPCN_SITREP-8 4.1.19 - Deer Park.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Baker, David" <David.Baker@BSWHealth.org>
Date: April 1, 2019 at 4:19:01 PM CDT
To: "Young, Patrick" <young.patrick@epa.gov>, "Snodgrass, Wayne R." <wsnodgra@UTMB.EDU>, "Martin, Thomas" <Thomas.Martin@ttuhsc.edu>, Melody Gardner <MELODY.GARDNER@phhs.org>, "Baker, Steven D." <dbaker@UTMB.EDU>, "Jaramillo, Jeanie" <Jeanie.Jaramillo@ttuhsc.edu>, Kelly Hogue <KELLY.HOGUE@phhs.org>, Sal Baeza <sbaeza@umcelpaso.org>, Veronica Stoller <Stoller@uthscsa.edu>, Brett Roth <Brett.Roth@UTSouthwestern.edu>, "Dr. Varney" <Varney@uthscsa.edu>, "Joshi, Prashant" <Prashant.Joshi@ttuhsc.edu>, "Morrissey, Ryan P M.D." <Ryan.Morrissey@BSWHealth.org>, "Borron, Stephen" <Stephen.Borron@ttuhsc.edu>, "Hall,Emily (DSHS)" <Emily.Hall@dshs.texas.gov>, "Stuteville,Haylea (DSHS)" <Haylea.Stuteville@dshs.texas.gov>, Kelli Merriweather <kellim@csec.texas.gov>, James Johnson <jamesmj@csec.texas.gov>, Kaitlyn Cross <KAITLYN.CROSS@phhs.org>, Dawn Marchetto <DAWN.MARCHETTO@phhs.org>
Subject: Deer Park Fire SITREP #8 April 1, 2019

S. David Baker, PharmD, DABAT, FAACT | Director | Central Texas Poison Center | Office phone 254.724.7409

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Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/3/2019 5:42:54 AM
To: Mason, Steve [mason.steve@epa.gov]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]
Subject: FW: End of Shift Update_04.02.2019_Kendra Bernhagen_Carlton Porter
Attachments: FW: Flush of Tucker Bayou plan; Response Maps: Waste Storage Tanks and Roll Off Box Maps

Enjoy!

-Kendra Bernhagen

From: spill12
Sent: Wednesday, April 3, 2019 12:39 AM
To: Ly Pham <Ly.Pham@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Guadalupe Quiroz <Guadalupe.Quiroz@tceq.texas.gov>; Kevin McLeod <Kevin.McLeod@tceq.texas.gov>; Todd Thompson <Todd.Thompson@tceq.texas.gov>
Cc: Sumner Wingo <Sumner.Wingo@tceq.texas.gov>; Travis Lay <Travis.Lay@Tceq.Texas.Gov>
Subject: End of Shift Update_04.02.2019_Kendra Bernhagen_Carlton Porter

End of Shift Update_04.02.2019_Kendra Bernhagen_Carlton Porter

ERC Kendra Bernhagen was approached by KSolv regarding the recycling of the material on the water and within the tanks holding the waste that has been generated during this event. The ERC reminded the KSolv representative that the material is a waste and thus cannot be recycled under RCRA regulations. He was instructed to call the regional office and speak with the RDs office if he had any further questions regarding this issue.

ERC Kendra Bernhagen attended the 1500 planning meeting. The next IAP was presented and approved by the Unified Command.

A meeting with, ITC, EPA, and TCEQ followed immediately after the planning meeting. The meeting was used to discuss the Tucker Bayou Flushing Plan. The flushing plan for Tucker Bayou that was developed by the operations unit comprised of (EPA, ITC, USCG and several different contractors) was approved by Unified Command and flushing operations will begin on the morning of April 3, 2019.

A 4:30 pm conference call was had with TCEQ, EPA, ITC, CTEH, NOAA, and ITC Legal regarding the unapproved environmental plans. The conference call encompassed creating a single sampling plan that would have appendices for each sampling media that is taking place. An improved system will be established for documentation, distribution, and control, including nomenclature, document date, version number, who is going to be distributing the plans, and who will be receiving the plans.

A conference call was held with TCEQ, EPA, and NOAA regarding the material being a hazardous waste. Further was had regarding the environmental plans being discussed as well.

TCEQ and EPA provided comments on the WWTP and the Waste Handling and Interim Storage Plan to ITC representatives via electronic mail (see Spill 12).

Texas Molecular had a reading at 2130 hours due to a .39 ppm benzene reading at the facility. The facility had a few personnel working late in a warehouse, the personnel went ahead and left the facility. The winds switched from northeast to a southeastern wind which would have winds coming off the tank farm and toward the Texas Molecular facility. CTEH conducted this monitoring and ultimately it was decided not to deploy the strike team as facility personnel decided to end their work day.

Current tank farm operations are as followed: the dike area is currently being pumped to tank 100-31. 80-2 is draining into the secondary containment, and 80-3 has been drained. 80-7 will begin being vacuumed out during tonight's operations tentatively. A manifold is being constructed to pump tanks 80-5, 80-6, 80-8 out. Tanks 80-14, 80-15, 80-10 have all been pumped out and deemed "empty". Additional flushing of the tanks will take place once most of the material has been removed from all tanks and containment areas.

Currently a total of 169.942 of contaminated water has been removed. 72, 703 barrels of contaminated water has been removed from on-water operations. 97,239 barrels of contaminated water has been removed from the tank farm area. The 128 cubic yards of contaminated material (PPE, boom, and absorbent pads) has remained the same according to the March 2, 2019, 1800 update to the ICS 209 Incident Status Summary. Approximately 128, 500 feet of boom has been deployed to various areas of Tucker Bayou and the Houston Ship Channel.

ERC Kendra Bernhagen requested maps depicting storage location of all wastes. Maps have been supplied showing where waste is currently being stored throughout the facility and at the KSOLV plant. Please see the attachment.

An additional conversation was had with ITC, EPA, and TCEQ regarding the upcoming rain that is forecasted as well as the WWTP. The WWTP statement was provided to the night crew of ITC so they could be on the same page as the day crew.

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/2/2019 3:59:19 PM
To: Quiroz Guadalupe_TCEQ [Guadalupe.quiroz@tceq.texas.gov]; Todd Thompson [Todd.Thompson@tceq.texas.gov]; Kevin McLeod [Kevin.McLeod@tceq.texas.gov]; Alma Jefferson [Alma.Jefferson@tceq.texas.gov]
Subject: FW: Flush of Tucker Bayou plan

This is the Tucker Bayou Flush that was sent to the EPA and USCG

From: spill12
Sent: Tuesday, April 2, 2019 10:56 AM
To: spill12 <spill12@tceq.texas.gov>
Subject: Flush of Tucker Bayou plan

Second 80's Fire
Tucker Bayou Map
4/1/2019
0 400 800 1,200 1,600 2,000 Feet
Legend
Incident Location

4/2/2019

Flush of Tucker Bayou

This plan serves to identify general guidance procedures to be followed by Contract personnel performing water flush on Tucker Bayou.

SITE SPECIFICS

Tucker Bayou @ ITC

CONCEPT OVERVIEW

Water flush of Tucker Bayou

METHODOLOGY

Tucker Bayou will be broken up into 3 geographical sections. Each section will be approx. 600 feet long

Remove containment boom at the northern end of Tucker Bayou.

Utilize ITC fire water monitors already in place surrounding Tucker Bayou. The northern most fire monitor will start a low volume flush of approx. 2,000 gallons per minute. 8 Foiler skimmers will be utilized to skim product from the water at the outfall of the bayou.

Once the northern most section (A) is flushed until visibly clean, the fire monitor will be turned off and we will move to section (B)

Once section B has been flushed until visibly clean, we will begin to flush section (C). Our goal is to ensure all free-floating product is outside Tucker Bayou.

The same methodology of flushing till visibly clean on zones A & B, will be applied to zone C.

When all free-floating product is beyond the outfall of Tucker Bayou, containment boom will be put back in place. The three different zones will be flushed for three days. The final flush will be on the fourth day and we will increase the volume of water and include hand lines to rinse down the banks

HEALTH AND SAFETY

All plans will be approved by Health and Safety. CTEH will be conducting air monitoring for the area

SPECIAL CONSIDERATIONS

Due to previous spike in Benzene, all surrounding facilities will be notified of water flush before start. Wednesday morning will start based on tide schedule, if the tide starts at 7am we will start to flush at 5am.

Sent from my iPhone

Message

From: Bryan McClean [BMcClean@responsegroupinc.com]
Sent: 4/3/2019 1:37:48 AM
To: spill12 [spill12@tceq.texas.gov]
Subject: Response Maps: Waste Storage Tanks and Roll Off Box Maps
Attachments: 20190402 Division E Roll off Boxes.jpg; 20190402 Waste Tank Locations 2030.jpg; 20190402 Division C Roll off Boxes.jpg

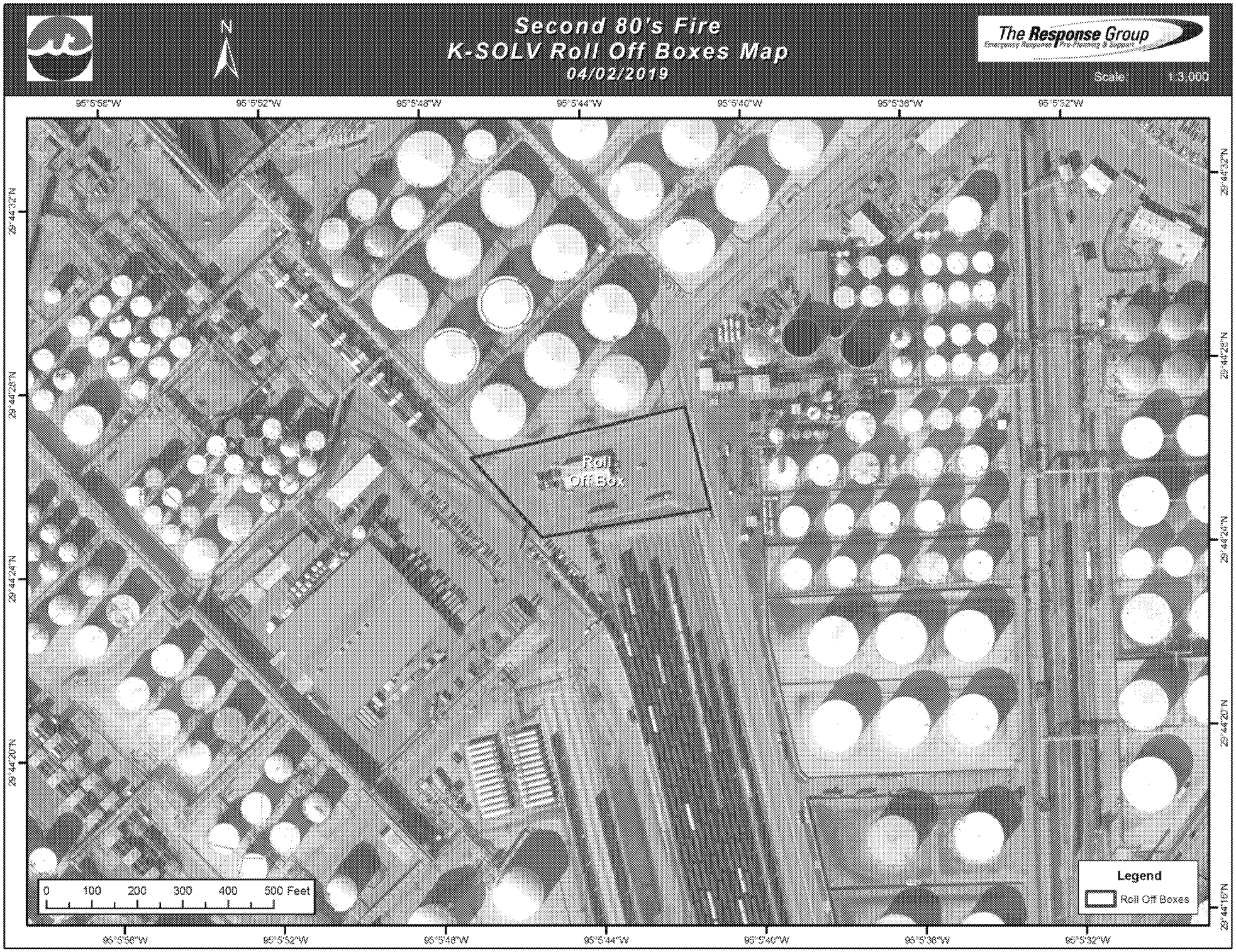
Please see the following attached maps:

Waste Tank Locations Map
Division C Roll off Box Map
Division E Roll off Box Map

Thank you,

Bryan McClean
The Response Group
13939 Telge Rd. | Cypress, TX 77429 | 281.880.5000 x244
Sign up for our Email Newsletter

Second 80's Fire
K-SOLV Roll Off Boxes Map
04/02/2019
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:1,700
N
95°6'16"W
95°6'12"W
95°6'8"W
95°6'4"W
29°49'52"N
29°49'48"N
Roll Off Box
Lakeside Dr
K-SOLV
Roll Off Box
0
100
200
300
400
500 Feet
Legend
Facilities
Roll Off Boxes


Second 80's Fire
K-SOLV Roll Off Boxes Map
04/02/2019
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:3,000
N
95°5'56"W
95°5'52"W
95°5'48"W
95°5'44"W
95°5'40"W
95°5'36"W
95°5'32"W
29°44'32"N
29°44'28"N
29°44'24"N
29°44'20"N
Roll Off Box
0 100 200 300 400 500 Feet
Legend
Roll Off Boxes

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/3/2019 4:49:38 AM
To: Dwascome@iterm.com; Mike Taylor [mtaylor@iterm.com]; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]; Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]
Subject: TCEQ Statement for the ITC WWTP

Mike, this is from TCEQ this morning…

With Regards, Steve

Stephen Mason
RPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

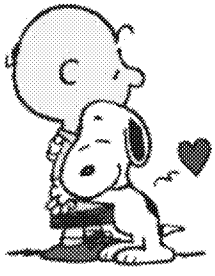
"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

****
****

Intercontinental Terminals Company (ITC) is currently authorized to discharge certain wastewater streams under TPDES Permit No. WQ0001984000. ITC's Waste Management Plan indicates that ITC proposes to route recovered or skimmed mixtures (diked area, ditch, Tucker Bayou, Ship Channel, and tanks), wash waters from cleaning equipment, and decontamination waters to their onsite WWTP for treatment and discharge under their TPDES authorization. Based on ITC's representations to TCEQ, the waste that it proposes to discharge includes firefighting foam, brine/saltwater contaminated with firewater/tank contents, foam and contents from the secondary containment, off-spec commercial chemical products, oily wastes, and hazardous decontamination wastes. As clearly identified in the RCRA regulations, any material that comes into contact with listed hazardous waste, including but not limited to soils, sediments, surface waters, solid surfaces, debris, and plant material are a hazardous waste (in this case, a listed waste). A RCRA hazardous waste may only be disposed of in a properly permitted hazardous waste treatment, storage, and disposal facility (TSDF). These wastes generated from this event are not authorized to be discharged under ITC's TPDES permit. Therefore, these wastes should be manifested to an authorized hazardous waste disposal facility for treatment and/or disposal. No recovery wastes or liquids are to be managed in the WWTP or treated on-site. The current TPDES permit DOES NOT authorize the treatment of the wastes generated from this event.

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/3/2019 2:07:26 AM
To: Adams, Adam [Adams.Adam@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Rouse, Philip [rouse.philip@epa.gov]; Fisher, Kelsey [fisher.kelsey@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Blaze, Stephen [Blaze.Stephen@epa.gov]; Acevedo, Janie [acevedo.janie@epa.gov]; Assunto, Carmen [assunto.carmen@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]; Moore, Gary [moore.gary@epa.gov]; anthony.buck@tceq.texas.gov; travis.lay@tceq.texas.gov; jenniffier.hawes@dps.texas.gov; Curry, Tim [Curry.Timothy@epa.gov]; SCowan@dynamac.com; Alice Richardson [ARICHARDSON@iterm.com]; carlton.porter@tceq.texas.gov; bianca.lopez@tceq.texas.gov; Franklin, Richard [Franklin.Richard@epa.gov]; gabrielle.mayworn@tceq.texas.gov
CC: Latham, Benjamin [Benjamin.Latham@WestonSolutions.com]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; Kendra Bernhagen [Kendra.Bernhagen@Tceq.Texas.Gov]; Nicole Bealle [Nicole.Bealle@tceq.texas.gov]; Paige.Doelling@noaa.gov; Neil Daniell [NDaniell@css-inc.com]; Brescia, Nicolas [brescia.nicolas@epa.gov]
Subject: Daily Stress Relief -- Tip for the Day # 12

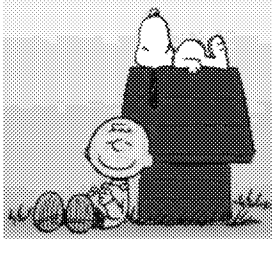


Final. I am demobing after tonight, so this will be the last Tip for the Day (I am going on vacation for a few days, and then back to Dallas… OK, quit sticking your tongue out…)

Each of you may have a different reason for joining EPA, TCEQ, the County or private industry.

But I believe all of us truly feel that being in the environmental realm is a way to improve our world and ensure the safety of the citizens we serve. And all of you filled important positions during this response: emergency response to directly protect the community from a release; assessments to ensure the drinking water and air was safe for the residents; removing the products/waste that could pose a future threat; listening to community concerns and providing information on protecting the facilities around the site; or supporting the field activities in our respective Emergency Operations Centers.

Bottom line: The people in Harris County may never know what all the federal, state, and local governments, as well as all the other responders, did to help them recover this disaster, but know your efforts will always be appreciated by those who do know.



Be silent. Plan for a time when you can completely disconnect.

Even if it is for 5-10 minutes per day. If you are staying in the hotel or at home, consider a ten-minute hot bath at the end of each shift.

There's evidence that too much noise can boost our stress levels, so schedule some silent time among all the craziness of this event. Besides giving our ears a break, silence has been shown to offer significant health advantages that boost overall well-being.

From a physiological standpoint, silence helps: Lower blood pressure, which can help prevent heart attack; Boost the body's immune system; Benefit brain chemistry by growing new cells; Decrease stress by lowering blood cortisol levels and adrenaline; Promote good hormone regulation and the interaction of bodily hormone-relate systems; and even Prevent plaque formation in arteries.

That means phone off, no emails, no TV, no news, nothing. Especially don't spend a lot of time reading about the incident. You get enough of it during your working time.

---

have

This May be the Most Important One.

During a disaster response, such as this, you may build friendships you did not before, working with people from other areas, or even other programs within your entity.

That's a good thing.

But just as importantly, it is easy to ruin a friendship during stressful times also.

If you want to still be a friend after this is over with, treat your friends with respect, and do not jump on them just because things are not much fun.

Your real friends will be here for you now, and in the future… as long as you don't run them off…

---

to

Play around (just not too much!). Kids and animals seem to have a natural ability play, without stressing about their overflowing inboxes or the beat-down meetings and conference calls.

we all

Until upper management authorizes cookies, milk, and nap time each afternoon, have to take personal responsibility to relax.

Watch a sitcom or movie after work.

And if you go to dinner together, force yourselves not to talk about work, the disaster, or other things that just keep you frustrated.

But be a little careful… while you may think a good practical joke will lighten the mood in the work area, understand some people do not have a sense of humor…

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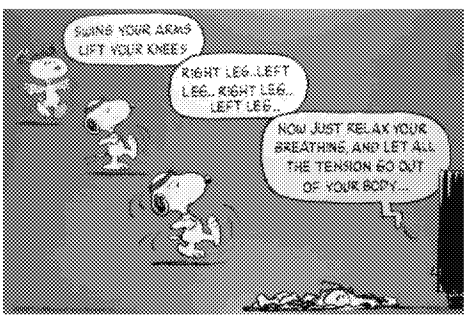
also a 

Learn to breathe. This sounds too simple, but a useful tool to prevent panic attacks or reduce peaks of stressfulness, the breath is great marker of where your anxiety level is at throughout the day.

and

Short, shallow breaths signify stress and anxiety in the brain body.

On the flip side, consciously breathing, plus lengthening and strengthening the breath helps send signals to the brain that it's okay to

relax.

So if you find yourself stressed out, find a quiet, comfortable place to sit down. take a normal breath then try a deep breath, breathe in slowly through your nose, allowing your chest and lower belly to rise as you fill your lungs, let your abdomen expand fully, and now breathe out slowly through your mouth (or your nose, if that feels more natural).

As you sit comfortably with your eyes closed, deep breathing with, get your mind off the things making you stress out.

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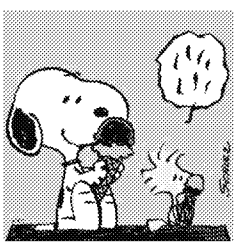
tarts). 

Eat right. Anxiety can throw our bodies totally out of whack: Our appetite might change, or we might crave certain foods (mine has been powdered donuts and Sweet-

for

But to give the body the support it needs, try eating more of foods that contain nutrients such as vitamin B and omega-3s (polyunsaturated fats, that actually are not bad us), plus some healthy whole-grain carbohydrates.

Studies have linked vitamin B with good mental health, and omega-3s may help reduce symptoms of depression and anxiety. Whole-grain carbs help regulate levels of serotonin, the "feel-good" neurotransmitter that helps us remain calm.

And even though our cravings might be telling us otherwise, research suggests that eating sugary and processed foods can increase symptoms of anxiety (not to mention adding weight).

16

We're in this together. So now you're going to be working next to someone 12-14-hours a day for two weeks (or more). And maybe sharing very close working quarters with person. How do you keep from killing each other?

There is no sure fire method, but there are some simple things to keep in mind may help. First remember, all of you in the field have some common/shared thoughts: I want to be here (none of us wanted this to happen); I want to go home; and I'm tired.

So when dealing with others in the field, remember that other person is probably thinking the same thing you are. Also, do not keep things bottled up and let them fester. Talk through little issues to ensure they do not grow into big ones. When you have down time (which isn't much), get to know the other person (hobbies, family, previous experiences, etc.) so you better understand them.

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Express gratitude. Studies have found expressing gratitude helps reduce anxiety, especially when we're well-rested.

So when someone fulfills a request from you, make sure you thank them for the effort.

But there are other times when we don't think about saying "thanks," which is appropriate or can actually defuse others…

When you're receiving a compliment; When you're running late (thank others for being patient); When you're comforting someone (for sharing what they're going through); When you're receiving helpful feedback; When you're receiving unfair criticism (this will many times stop them from continuing); When someone gives you unsolicited advice (also helps to stop them); and When you're not sure if you should thank someone.

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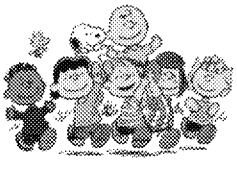
So take a few minutes every day or so to tidy up the work area, and then make a habit of keeping things clean and anxiety-free.

If you no longer need a document, file it with the Documentation Unit to help clear off your desk or table.

It'll help us think rationally, and there won't be as much room for anxiety.

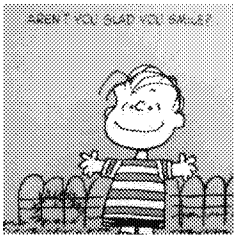
The



Turn it Off. Research reveals that people who use electronic devices (television, phones, tablets, etc.) up to the minute they go to bed are sacrificing a more restful sleep. visual stimulation to your brain takes a while to wind down.

So, to get more rest, turn off that stimulation at least 30 minutes before you try to go to sleep. Instead, open up a fiction book that you have wanted to read, and read a chapter or two until you are ready to close your eyes.

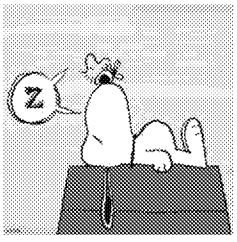
And bad news, ebook devices are just as bad as the TV or laptop. So break out the old but trusty paper book. And while it is simple, and may sound silly, if you had a favorite comic strip when you were younger (Garfield, Bloom County, Peanuts), go to a book store and find a compilation of those to re-discover. Not only may they bring a smile before bed, they may even trigger fond memories of your childhood!



Smile. I am sure all of us will sooner or later will get down from the long hours, stress, being away from home, etc.

When work has got you down, it's a good idea to take a quick break to relieve stress by finding the humor in your life.

Research suggests that laughter can reduce symptoms of depression and anxiety, so consider checking out a funny clip on the internet, remembering your favorite joke, or simply think of funny things that may have happened in past incidents, to help relieve the stress.



Get enough sleep. OK, don't laugh… I know how hard this can be. But, inconsistent sleep can have some serious consequences. Not only does it affect our physical health, but lack of sleep can also contribute to overall anxiety and stress.

And sometimes it turns into a vicious cycle, since anxiety often leads to disruptions in sleep. Especially when feeling anxious, try to get a few more minutes of sleep. If it is possible, when exhausted, try to just take a quick 15 minute nap somewhere.

With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Message

From: Peterson, Todd M CIV [Todd.M.Peterson@uscg.mil]
Sent: 3/28/2019 7:34:08 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Mason, Steve [mason.steve@epa.gov]; michael.k.sams@uscg.mil; Miller, Chris [chris.j.miller@uscg.mil]; Keyth.A.Pankau@uscg.mil; Oditt, Kevin D CAPT [Kevin.D.Oditt@uscg.mil]; Toczko, Jarod S LCDR [Jarod.S.Toczko@uscg.mil]; Tilimon, Matthew D MSSR3 [Matthew.D.Tilimon@uscg.mil]; Paige.Doelling@noaa.gov; charlie.henry@noaa.gov; susan_king@ios.doi.gov; Courtney Hoover [courtney_hoover@ios.doi.gov]; anthony.buck@tceq.texas.gov; Jimmy.a.martinez@glo.texas.gov; 'Steve.Buschang@glo.texas.gov' [Steve.Buschang@glo.texas.gov]; Young, Patrick [young.patrick@epa.gov]; 'Douglas Huddleston (Huddleston.Douglas@dol.gov)' [Huddleston.Douglas@dol.gov]; 'denise_ruffino@fws.gov' [denise_ruffino@fws.gov]
CC: Karolien.Debusschere@la.gov
Subject: RE: RRT-6 Incident-Specific ALERT Notification - Second 80's Fire/Spill - Cancel

Good afternoon,

At this time, there will not be an RRT-6 Activation Call for this incident.

V/R,

Todd Peterson

-----Original Message-----
From: Peterson, Todd M CIV
Sent: Tuesday, March 26, 2019 12:11 PM
To: Crossland.Ronnie@epa.gov; Monica Smith (smith.monica@epa.gov) <smith.monica@epa.gov>; 'Mason, Steve' <mason.steve@epa.gov>; Sams, Michael K CIV <Michael.K.Sams@uscg.mil>; Miller, Chris J LCDR <Chris.J.Miller@uscg.mil>; Pankau, Keyth A LT <Keyth.A.Pankau@uscg.mil>; Oditt, Kevin D CAPT <Kevin.D.Oditt@uscg.mil>; Toczko, Jarod S LCDR <Jarod.S.Toczko@uscg.mil>; Tilimon, Matthew D MSSR3 <Matthew.D.Tilimon@uscg.mil>; Paige Doelling (paige.doelling@noaa.gov) <paige.doelling@noaa.gov>; charlie.henry@noaa.gov; Susan King (susan_king@ios.doi.gov) <susan_king@ios.doi.gov>; (courtney_hoover@ios.doi.gov) <courtney_hoover@ios.doi.gov>; 'anthony.buck@tceq.texas.gov' <anthony.buck@tceq.texas.gov>; Jimmy.A.Martinez <Jimmy.A.Martinez@GLO.TEXAS.GOV>; 'Steve.Buschang@glo.texas.gov' <Steve.Buschang@glo.texas.gov>; 'young.patrick@epa.gov' <young.patrick@epa.gov>; Douglas Huddleston (Huddleston.Douglas@dol.gov) <Huddleston.Douglas@dol.gov>; 'denise_ruffino@fws.gov' <denise_ruffino@fws.gov>
Cc: 'Karolien Debusschere' <Karolien.Debusschere@LA.GOV>
Subject: RRT-6 Incident-Specific ALERT Notification - Second 80's Fire/Spill

Good Afternoon,

This serves as your ALERT Notification for an RRT-6 Activation for Consultation of the ongoing Second 80's Fire/Spill Incident at the Intercontinental Terminals Company (ITC) in Deer Park, TX.

Once EPA determines the time of the activation call, we will send out an Outlook Meeting Invite with more detailed information.

We know that many are in transit to the RRT mtg in OKC. Please let me know that you received this email. We will call key members individually if we don't receive positive confirmation.

V/R,

Todd Peterson, USCG
Cell 228-249-1105

Message

From: Peterson, Todd M CIV [Todd.M.Peterson@uscg.mil]
Sent: 3/26/2019 5:10:50 PM
To: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Mason, Steve [mason.steve@epa.gov]; michael.k.sams@uscg.mil; Miller, Chris [chris.j.miller@uscg.mil]; Keyth.A.Pankau@uscg.mil; Oditt, Kevin D CAPT [Kevin.D.Oditt@uscg.mil]; Toczko, Jarod S LCDR [Jarod.S.Toczko@uscg.mil]; Tilimon, Matthew D MSSR3 [Matthew.D.Tilimon@uscg.mil]; Paige.Doelling@noaa.gov; charlie.henry@noaa.gov; susan_king@ios.doi.gov; Courtney Hoover [courtney_hoover@ios.doi.gov]; anthony.buck@tceq.texas.gov; Jimmy.a.martinez@glo.texas.gov; 'Steve.Buschang@glo.texas.gov' [Steve.Buschang@glo.texas.gov]; Young, Patrick [young.patrick@epa.gov]; Douglas Huddleston (Huddleston.Douglas@dol.gov) [Huddleston.Douglas@dol.gov]; 'denise_ruffino@fws.gov' [denise_ruffino@fws.gov]
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Cell 228-249-1105

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/30/2019 12:24:13 PM
To: ARICHARDSON@iterm.com
Subject: Fwd: Daily Stress Relief -- Tip for the Day # 08

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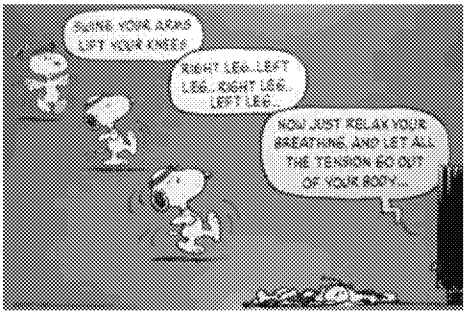


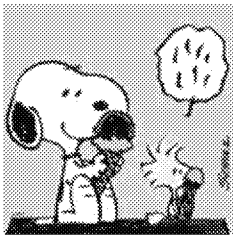
<!--[if !vml]--><!--[endif]--><u>**Learn to breathe.**</u> This sounds too simple, but a useful tool to prevent panic attacks or reduce peaks of stressfulness, the breath is also a great marker of where your anxiety level is at throughout the day.

Short, shallow breaths signify stress and anxiety in the brain and body.

On the flip side, consciously breathing, plus lengthening and strengthening the breath helps send signals to the brain that it's okay to relax.

So if you find yourself stressed out, find a quiet, comfortable place to sit down. take a normal breath then try a deep breath, breathe in slowly through your nose, allowing your chest and lower belly to rise as you fill your lungs, let your abdomen expand fully, and now breathe out slowly through your mouth (or your nose, if that feels more natural).

As you sit comfortably with your eyes closed, deep breathing with, get your mind off the things making you stress out.



<!--[if !vml]--><!--[endif]--><u>**Eat right**</u>. Anxiety can throw our bodies totally out of whack: Our appetite might change, or we might crave certain foods (mine has been powdered donuts and Sweet-tarts).

But to give the body the support it needs, try eating more of foods that contain nutrients such as vitamin B and omega-3s (polyunsaturated fats, that actually are not bad for us), plus some healthy whole-grain carbohydrates.

Studies have linked vitamin B with good mental health, and omega-3s may help reduce symptoms of depression and anxiety. Whole-grain carbs help regulate levels of serotonin, the "feel-good" neurotransmitter that helps us remain calm.

And even though our cravings might be telling us otherwise, research suggests that eating sugary and processed foods can increase symptoms of anxiety (not to mention adding weight).

And if you ever need to just talk, give me a call… 214-789-1871 or Monica at 469-766-3398

<!--[if !vml]--><!--[endif]--><u>**We're in this together**</u>. So now you're going to be working next to someone 12-14-16 hours a day for two weeks (or more). And maybe sharing very close working quarters with that person. How do you keep from killing each other?

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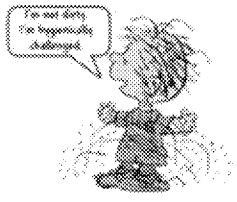

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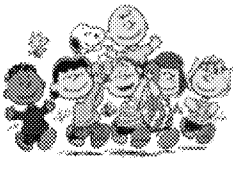

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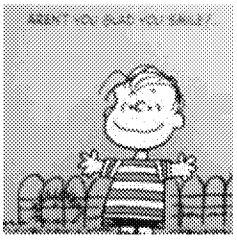

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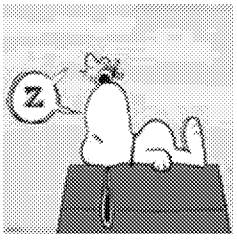

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With Regards, Steve

Stephen Mason
EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2278
mason.steve@epa.gov

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/4/2019 9:02:47 PM
To: Mike Gaudet [MGaudet@iterm.com]
Subject: Re: 20190404_4 Apr 2019 - CTEH Community Report: 4/3 - 4/4

Hey mike

Since I have demobed you can take me off your list

Take care. It was a pleasure working with you and your team

Sent from my iPhone

> On Apr 4, 2019, at 2:56 PM, Mike Gaudet <MGaudet@iterm.com> wrote:
>
> Please find attached the latest CTEH community report. Please review and advise.
>
> Any monitoring data that exceeds action levels agreed upon in UC/monitoring meetings should be immediately reported by telephone to (832) 493-8041.
>
> Information for the email inbox is as follows:
> Email address for submittal: air2@iterm.com<mailto:air2@iterm.com>
>
> Access to the email box:
> Web access: https://owa.iterm.com/owa
> Username: air2
> Password: 1nc1d3nt!
>
> Michael Gaudet
> Environmental Compliance Manager
> Intercontinental Terminals Company LLC
> 1943 Independence Pkwy S. | LaPorte, TX 77571
> D: 281.884.0360
> C: 281.787.8256
> mgaudet@iterm.com<mailto:mgaudet@iterm.com>
>
>
>
>
>
>
> <111356 - Deer Park Tank Fire Air Monitoring Summary 2019-04-04.pdf>

Message

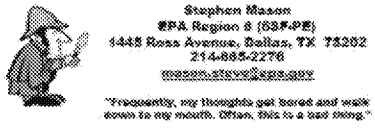
From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/4/2019 1:28:12 AM
To: Reid McLelland [RMcLelland@iterm.com]
Subject: RE: 20190403 Water Sampling

Hi Reid…

I have demobed from this response, so you can delete me off the distribution list for this information…

Thanks so much

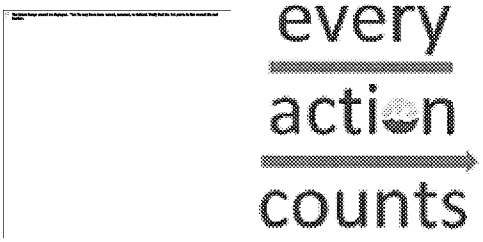
With Regards, Steve



From: Reid McLelland <RMcLelland@iterm.com>
Sent: Wednesday, April 03, 2019 5:33 PM
To: Adams, Adam <Adams.Adam@epa.gov>; 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; Mason, Steve <mason.steve@epa.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: 20190403 Water Sampling

See attached latest water sampling results.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 4/3/2019 6:06:19 PM
To: Curry, Tim [Curry.Timothy@epa.gov]
Subject: Re: ASPECT update 8 - Kemco fire response

I have demobed so you can take off distribution list

Keep up the great work

Sent from my iPhone

On Apr 3, 2019, at 8:50 AM, Curry, Tim <Curry.Timothy@epa.gov> wrote:

> Team,
>
> The aircraft has taken off. The estimated time over target is 0900. If there are any questions or requests to add let me know.
>
> Timothy Curry, PE
> EPA OLEM/OEM/CMAD/FOB
> 11201 Renner Blvd.
> Lenexa, Ks. 66219
> Office Phone (913)551-5129
> Cell Phone (816)718-4281
>
> **From:** Curry, Tim
> **Sent:** Wednesday, April 03, 2019 8:28 AM
> **To:** Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
> **Cc:** Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
> **Subject:** RE: ASPECT update 7 - Kemco fire response
>
> Team,
> We are planning a post event screening flight over the KMCO facility for the first part of a mixed-mission flight today. The crew is planning to be airborne at approximately 0900 am. They will proceed first to the KMCO site and collect data. We will do the initial processing and review of results. Once they are

released from the KMCO mission they will restart the mission files to change to the ITC site data acquisitions. If you have any questions please call my cell phone.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Tuesday, April 02, 2019 5:19 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; David Cook <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; b.latham@westonsolutions.com; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; Turville, Rick <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 6 - Kemco fire response

Team,

Attached is the draft report for the KMCO response conducted earlier today. If you identify some comments or edits that are needed please let me know. A site specific link with the data set is in the process of being built. Once it is ready for review I will include it in a later update. Call my cell phone if you have any questions or requests.

Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Tuesday, April 02, 2019 2:48 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com'

<b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 5 - Kemco fire response

Team,
The last pass between the site and the school had one single scan with a detect of isobutylene. That detect was close to the site. This information was relayed to the OSC at the event. We have released the aircraft to return to Ellington. They will upload the data for final processing and reporting. Attached is the flight line image and kml and an oblique photo from the early portion of the flight. Please call my cell if you have questions.

Timothy Curry, PE
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11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

From: Curry, Tim
Sent: Tuesday, April 02, 2019 2:12 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; David Cook <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; b.latham@westonsolutions.com; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; Turville, Rick <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 4 - Kemco fire response

Team,
Attached are multiple files for the ASPECT FTIR detections including the kml's for Google Earth and the shape files for arcview. We will continue to hold the aircraft in the area for further direction.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 2:04 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew

<loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>; Gary Moore <Moore.Gary@epa.gov>; Mickunas, Dave <Mickunas.Dave@epa.gov>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 3 - Kemco fire response

Team,

Data acquisition passes between site and school have had a few detections for ammonia. Concentration is less than the pass over the site and just above our detection limit of 1ppm. We will hold the plane in the area for further orders. Attached is an infrared line scanner image and aerial photo image for a pass between the site and what is believed to be the nearby school to the southwest.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 1:46 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; David Cook <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; b.latham@westonsolutions.com; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; Turville, Rick <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: RE: ASPECT update 2 - Kemco fire response

Team,

Winds are light and plume is rising vertically mostly. Some detects from pass directly over site indicate ammonia, isobutylene, butene, isoprene and acetone appear to be present. Concentrations near fire have been below 5ppm so far. One pass between school and site showed no automated detects. Still collecting data between school and plant. Will update as info comes available.

From: Curry, Tim
Sent: Tuesday, April 02, 2019 12:28 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Rouse, Philip <rouse.philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Mason, Steve <mason.steve@epa.gov>; 'David Cook' <david.cook@westonsolutions.com>; Janine.Latham@WestonSolutions.com; 'b.latham@westonsolutions.com' <b.latham@westonsolutions.com>; Mason, Steve <mason.steve@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Delgado, Eric <Delgado.Eric@epa.gov>; robert.kroutil@kalmancoinc.com; Cardarelli, John <Cardarelli.John@epa.gov>; 'Turville, Rick' <Rick.Turville@kalmancoinc.com>
Cc: Scott Hudson <Hudson.Scott@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>
Subject: ASPECT update 1 - Kemco fire response

Team,

The aircrew has been given the order to deploy. The proximity to the Deer Park event will mean they will be acquiring data on the event beginning in roughly 30 minutes. Please call my cell with any questions or directives.

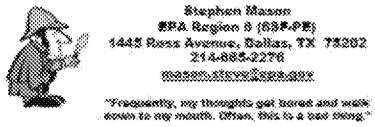
Timothy Curry, PE
EPA OLEM/OEM/CMAD/FOB
11201 Renner Blvd.
Lenexa, Ks. 66219
Office Phone (913)551-5129
Cell Phone (816)718-4281

Message

From: Mason, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4225EDD0625E4AD58AAC2FBC3A250027-MASON, STEVE]
Sent: 3/18/2019 6:20:56 AM
To: Eric Callahan [ecallahan@cteh.com]
CC: Justin Langley [jlangley@cteh.com]
Subject: RE: 111356 - ITC Deerpark Fire CTEH Project Website Access

Great… thanks…

With Regards, Steve



From: Eric Callahan <ecallahan@cteh.com>
Sent: Monday, March 18, 2019 1:04 AM
To: Mason, Steve <mason.steve@epa.gov>
Cc: Justin Langley <jlangley@cteh.com>
Subject: RE: 111356 - ITC Deerpark Fire CTEH Project Website Access

Steve,

Justin has requested that I grant you access to the CTEH project website for the Deerpark incident. The site will provide you with air monitoring data when it is recorded as well as project notes and photos. Your login is your e-mail address, and your password is below:

Password: ITCDeerPark2019!

https://projects.cteh.com/plans/2015/dashboard

If you have any questions or difficulty logging in please let me know.

Thank you,

Eric Callahan
Data Manager
CTEH, LLC
Mobile: 501-366-1525 | Office: 501-801-8500
Emergency Response 24-Hour Hotline: +1(866) 869-2834
ecallahan@cteh.com | www.cteh.com

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/18/2019 3:07:27 AM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]
CC: Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Adams, Adam [Adams.Adam@epa.gov]
Subject: Fwd: Battleship Assessment and Cleanup Plan

Jon/Phil

A plan is being evaluated to do an assessment of the battleship Texas. The plan is to evaluate some areas in the bottom of the ship to see if any of the materials entered the ship but primarily to determine if the ship can be reopened to the public at some point. Do you have any recommendations? It may be similar to an indoor air evaluation based on the chemicals associated with this event.

Monitoring: VOCs, Benzene
Sampling: ?

Thanks
Gary Moore

Sent from my iPhone

Begin forwarded message:

> **From:** William Irwin <William.Irwin@tpwd.texas.gov>
> **Date:** April 17, 2019 at 6:25:44 PM CDT
> **To:** Helen Dubach <hdubach@ctehrm.com>
> **Cc:** Andy Smith <Andy.Smith@tpwd.texas.gov>, Heather Biggs <Heather.Biggs@tpwd.texas.gov>, Alex Nunez <Alex.Nunez@tpwd.texas.gov>, Stephanie Croatt <Stephanie.Croatt@tpwd.texas.gov>, Mike Stovall <Mike.Stovall@tpwd.texas.gov>, "moore.gary@epa.gov" <moore.gary@epa.gov>, spill12 <spill12@tceq.texas.gov>, "Stamper, Tony" <tstamper@nrcc.com>, "Boutwell, James" <JBoutwell@nrcc.com>, "rfrancis@teichmangroup.com" <rfrancis@teichmangroup.com>, Reid McLelland <RMcLelland@iterm.com>, "Paige Doelling - NOAA Federal" <paige.doelling@noaa.gov>, "craig.cook@glo.texas.gov" <craig.cook@glo.texas.gov>
> **Subject: Re: Battleship Assessment and Cleanup Plan**
>
> Thank you Helen.
>
> Bill Irwin
> San Jacinto SHS
> Sent from my iPhone
>
> On Apr 17, 2019, at 10:38 AM, Helen Dubach <hdubach@ctehrm.com> wrote:
>
> > Hi folks,
> >
> > Sorry I couldn't make it to the meeting at the Battleship yesterday. I hear it was productive. I have been tasked with pulling the plan together, with input from TPWD and contractors. I propose that we address this plan in three parts, basic overview as follows:

1) Assessment
    a. Development of plan for assessment of the Battleship
    b. Internal assessment – air monitoring
    c. External assessment - visual SCAT-type survey for released material and other impacts
    d. Documentation of monitoring and assessment
    e. Endpoint determination and agreement
    f. Identification and agreement of appropriate cleanup methods

2) Cleanup
    a. Development of cleanup plan based on assessment, endpoints and agreed methods
    b. Implementation of Cleanup Plan and monitoring

3) Post-Cleanup assessment and closure
    a. Post-cleanup assessment survey
    b. Documentation
    c. Closure/Sign-off

Please review and let me have your input for:

- any key components missed in the above, or edits
- which parties/personnel should be involved for each step

I propose a meeting early next week (Tuesday?) to get started on Part 1.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/14/2019 1:50:45 PM
To: Fisher, Kelsey [fisher.kelsey@epa.gov]
Subject: Fwd: IAP for Period 15 - Approved
Attachments: 2nd 80's Fire Expanded 208 Safety Message Period 15.pdf; ATT00001.htm; Period 15 IAP reduced size.pdf; ATT00002.htm

Sent from my iPhone

Begin forwarded message:

From: "David Hill" <dhill@responsegroupinc.com>
To: "alex.nunez@tpwd.texas.gov" <alex.nunez@tpwd.texas.gov>, "spill12@tceq.texas.gov" <spill12@tceq.texas.gov>, "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, "Paige.Doelling@noaa.gov" <Paige.Doelling@noaa.gov>, "hdubach@ctehrm.com" <hdubach@ctehrm.com>, "cholley@iterm.com" <cholley@iterm.com>, "bweber@iterm.com" <bweber@iterm.com>, "david.wade@oem.hctx.net" <david.wade@oem.hctx.net>, "dwascome@iterm.com" <dwascome@iterm.com>, "bnetland@iterm.com" <bnetland@iterm.com>, "Nicole.d.rodriguez@uscg.mil" <Nicole.d.rodriguez@uscg.mil>, "Adams, Adam" <Adams.Adam@epa.gov>, "Jessica.l.wissmann@uscg.mil" <Jessica.l.wissmann@uscg.mil>, "Michael Honeycutt" <Michael.honeycutt@tceq.texas.gov>, "Brandy.Brooks@tceq.texas.gov" <Brandy.Brooks@tceq.texas.gov>, "Richard Chism" <Richard.Chism@tceq.texas.gov>, "Sabine.Lange@tceq.texas.gov" <Sabine.Lange@tceq.texas.gov>, "Jonathan.walling@tceq.texas.gov" <Jonathan.walling@tceq.texas.gov>, "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "Cynthia Gandee" <cynthia.gandee@tceq.texas.gov>, "Andy.goodridge@tceq.texas.gov" <Andy.goodridge@tceq.texas.gov>, "susan.johnson@tceq.texas.gov" <susan.johnson@tceq.texas.gov>, "anthony.buck@tceq.texas.gov" <anthony.buck@tceq.texas.gov>, "abel.garcia@tceq.texas.gov" <abel.garcia@tceq.texas.gov>, "terry.sullivan@tceq.texas.gov" <terry.sullivan@tceq.texas.gov>, "christopher.wiatrek@tceq.texas.gov" <christopher.wiatrek@tceq.texas.gov>, "jack.lunday@tceq.texas.gov" <jack.lunday@tceq.texas.gov>, "jeff.kunze@tceq.texas.gov" <jeff.kunze@tceq.texas.gov>, "Ramiro.Garcia@tceq.texas.gov" <Ramiro.Garcia@tceq.texas.gov>, "mescoto@iterm.com" <mescoto@iterm.com>, "richard.lawhorn@fmo.hctx.net" <richard.lawhorn@fmo.hctx.net>, "peter.marsey@cardno.com" <peter.marsey@cardno.com>, "caren.C.Damon@uscg.mil" <caren.C.Damon@uscg.mil>, "joel.s.ferguson@uscg.mil" <joel.s.ferguson@uscg.mil>, "cameron.dews@pcs.hctx.net" <cameron.dews@pcs.hctx.net>, "anthony.buck@tceq.texas.gov" <anthony.buck@tceq.texas.gov>, "Spall, Amy" <amy.spall@westonsolutions.com>, "CGITCResponse@gmail.com" <CGITCResponse@gmail.com>, "publicaffairshouston@uscg.mil" <publicaffairshouston@uscg.mil>, "trodriguez@nrcc.com" <trodriguez@nrcc.com>, "Mike Iacoboni" <miacoboni@responsegroupinc.com>, "Adriana.leiva@tpwd.texas.gov" <Adriana.leiva@tpwd.texas.gov>, "Liana.lerma@tpwd.texas.gov" <Liana.lerma@tpwd.texas.gov>, "Rodney.Reed@fmo.hctx.net" <Rodney.Reed@fmo.hctx.net>, "jroberts@poha.com" <jroberts@poha.com>, "Moore, Gary" <Moore.Gary@epa.gov>, "mgaudet@iterm.com" <mgaudet@iterm.com>, "Jennifer.Bronson-Warren_tpwd.texas.gov" <Jennifer.Bronson-Warren@tpwd.texas.gov>, "llong@cteh.com" <llong@cteh.com>, "Scott.Janoe@BakerBotts.com" <Scott.Janoe@BakerBotts.com>, "Craig.j.groman@uscg.mil" <Craig.j.groman@uscg.mil>, "Travis.tidwell2@tpwd.texas.gov" <Travis.tidwell2@tpwd.texas.gov>
Subject: IAP for Period 15 - Approved

Please see the attached Period 15 IAP and special Safety Message for Period 15

Thank you,

David Hill

Office: 281-880-5000
Mobile: 832-493-3154
Fax: 281-880-5005
Web: ***www.responsegroupinc.com***

"IAP Software - Developed for Responders by Responders"

Message

From: /O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/12/2019 3:18:28 PM
To: mgauget@iterm.com
CC: Adam Adams [Adams.Adam@epa.gov]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]
Subject: ITC: 2nd 80's Fire Emergency Response

Hello,

The EPA recognizes that DOW Chemical Company provided water from their fire water system for Tucker Bayou flushing activities during the Intercontinental Terminals Company's 2nd 80's Fire emergency response.

Thanks,

Gary W. Moore (6SF-ER)
Federal On-Scene Coordinator
U.S EPA Region 6
1445 Ross Ave, Suite 1200
Dallas, TX 75202-2733
Cell: 214.789.1627
moore.gary@epa.gov

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/9/2019 4:02:26 PM
To: gbrown@hc-inc.net
CC: Brescia, Nicolas [brescia.nicolas@epa.gov]
Subject: Re: Generator

That's our responsibility. They are only fueling us up. They are not mechanics.

Sent from my iPhone

On Apr 9, 2019, at 7:41 AM, Greg Brown <gbrown@hc-inc.net> wrote:

> Gary,
>
> The Generator for the Response vehicle in Houston will need to be serviced at 4900 hours. Talked with Nick this morning he said just have ITC do this since they are already doing the fueling service.
>
> ***Greg Brown***
> ***Facility Project Manager***
> ***HCI Integrated Solutions***
> (c) 910-988-8749
> (w) 214-424-3808
> gbrown@hc-inc.net

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/9/2019 5:14:02 PM
To: Brescia, Nicolas [brescia.nicolas@epa.gov]
CC: gbrown@hc-inc.net
Subject: Re: Generator

CG has not had generator serviced nor do they need to. It looks like we are at 4667 hrs

Sent from my iPhone

On Apr 9, 2019, at 12:00 PM, Brescia, Nicolas <brescia.nicolas@epa.gov> wrote:

> Correct, but you should find out from the USCG who they are using so we can potentially use them since they are already servicing the area.
>
> <image001.jpg>
>
> **From:** Moore, Gary
> **Sent:** Tuesday, April 09, 2019 11:02 AM
> **To:** gbrown@hc-inc.net
> **Cc:** Brescia, Nicolas <brescia.nicolas@epa.gov>
> **Subject:** Re: Generator
>
> That's our responsibility. They are only fueling us up. They are not mechanics.
>
> Sent from my iPhone
>
> On Apr 9, 2019, at 7:41 AM, Greg Brown <gbrown@hc-inc.net> wrote:
>
> > Gary,
> >
> > The Generator for the Response vehicle in Houston will need to be serviced at 4900 hours. Talked with Nick this morning he said just have ITC do this since they are already doing the fueling service.
> >
> > ***Greg Brown***
> > ***Facility Project Manager***
> > ***HCI Integrated Solutions***
> > (c) 910-988-8749
> > (w) 214-424-3808
> > gbrown@hc-inc.net

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/8/2019 5:46:15 PM
To: tstamper@nrcc.com
Subject: Fwd: Observations 4 8 2019 AM 0900
Attachments: image002.png; ATT00001.htm; image003.png; ATT00002.htm; SWS - Williams Tank Update 4 8 2019 0900.xlsx; ATT00003.htm

Hello Tony,

On the negative items could you indicate if actions are being taken to address.

Also, I was told that DOW is flushing in the area behind Clean Harbors but I am not sure if Clean Harbors is flushing. I was told clean Harbors did not have much volume to flush with by our person.

Gary

Sent from my iPhone

Begin forwarded message:

> **From:** "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>
> **Date:** April 8, 2019 at 11:07:36 AM CDT
> **To:** "Martin, John" <martin.john@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>
> **Cc:** "Moore, Gary" <Moore.Gary@epa.gov>
> **Subject: FW: Observations 4 8 2019 AM 0900**
>
> ---
>
> **From:** Kelly Cook <kelly.cook@tceq.texas.gov>
> **Sent:** Monday, April 8, 2019 10:07 AM
> **To:** Crossland, Ronnie <Crossland.Ronnie@epa.gov>
> **Subject:** FW: Observations 4 8 2019 AM 0900
>
> ---
>
> **From:** Troy C Johnson <troy.c.johnson@jci.com>
> **Sent:** Monday, April 8, 2019 10:03 AM
> **To:** Kelly Cook <kelly.cook@tceq.texas.gov>; Jeff Kunze <jeff.kunze@tceq.texas.gov>; Anthony Buck <Anthony.Buck@tceq.texas.gov>
> **Cc:** Stamper, Tony <tstamper@nrcc.com>
> **Subject:** Observations 4 8 2019 AM 0900
>
> Fire & Tank Farm Positive:
>
> - Adequate fire protection around perimeter of tank farm but not a complete ring.
> - Tanks 14 and 15 manways are open and degassing
> - Tank 6 manways are open front and back
> - Pipe leak between tanks 6 and 1 near loading rack has stopped.
> - Contaminated liquid in pipe rack area outside but adjacent to secondary containment has been evacuated.
> - Secondary containment has been pumped down and you can visually see the floor

- Tanks 7& 10 are now being pumped via vac truck
- Manways are open on tanks 2&3 and are being cleaned

Fire & Tank Farm Negative:

- VOC and Benzene emissions coming from leaking manifolds and piping

Environmental Positive:

- Ditch and Tucker Bayou at Tidal Rd looks better but still needs a lot of work. This is becoming less of a source of benzene
- Clean up crews are working diligently to change out absorbent pads
- Vac trucks now have carbon filters for emissions
- Underflow dam was placed in the concrete ditch beside the tank farm east of avenue J
- The underflow dams have been reinforced with dirt
- Assessment of Tucker Bayou found that there is less product in the bayou from tidal rd to Dow bridge

Environmental Negative:

- Spilled product remains on water in ditch from ITC south to Clean Harbors property.
- No flushing operations in ditch behind Clean Harbors. Still product in the ditch.
- VOC and Benzene emissions
- Large amount of product at Avenue J and Tidal rd.

If you have any questions please let us know.

Attention My new Email address is; troy.c.johnson@jci.com

Troy Johnson / Territory Manager / JCI / Williams Operations
/ Mobile: +1 704 677 0947 / Fax: +1 409-971-4196 /
24 Hour Emergency Number: 409-727-2347
9605 Richard Wycoff Drive / Port Arthur, TX 77640 / USA
troy.c.johnson@jci.com /www.williamsfire.com

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Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/8/2019 7:07:01 PM
To: Stamper, Tony [tstamper@nrcc.com]
Subject: Re: Observations 4 8 2019 AM 0900

Thank you

Sent from my iPhone

On Apr 8, 2019, at 12:53 PM, Stamper, Tony <tstamper@nrcc.com> wrote:

> Yes, indicate if actions are being taken.
>
> I did not see any flushing this morning from Dow or Clean Harbors but will check it out.
>
> Tony Stamper
>
> **Tony Stamper**
> Branch Manager
> - - - - - - - - - - - - - - - - - - -
> www.nrcc.com | tstamper@nrcc.com
>
> <NRC_LOGO_ff202020-c6fc-4205-bf68-a44c34a6cc04.png>
> - - - - - - - - - - - - - - - - - - -
> 1700 North E Street
> La Porte, TX 77571
> United States
> 24 Hour Emergency Service: 1 (800) 899-4672
>
> ---
>
> **From:** Moore, Gary <Moore.Gary@epa.gov>
> **Sent:** Monday, April 8, 2019 12:46:23 PM
> **To:** Stamper, Tony
> **Subject:** Fwd: Observations 4 8 2019 AM 0900
>
> **This email came from an external source, please take caution when interacting with it.**
>
> ---
>
> Hello Tony,
>
> On the negative items could you indicate if actions are being taken to address.
>
> Also, I was told that DOW is flushing in the area behind Clean Harbors but I am not sure if Clean Harbors is flushing. I was told clean Harbors did not have much volume to flush with by our person.
>
> Gary
>
> Sent from my iPhone
>
> Begin forwarded message:

From: "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>
Date: April 8, 2019 at 11:07:36 AM CDT
To: "Martin, John" <martin.john@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>
Cc: "Moore, Gary" <Moore.Gary@epa.gov>
Subject: FW: Observations 4 8 2019 AM 0900

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Monday, April 8, 2019 10:07 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Subject: FW: Observations 4 8 2019 AM 0900

From: Troy C Johnson <troy.c.johnson@ici.com>
Sent: Monday, April 8, 2019 10:03 AM
To: Kelly Cook <kelly.cook@tceq.texas.gov>; Jeff Kunze <jeff.kunze@tceq.texas.gov>; Anthony Buck <Anthony.Buck@tceq.texas.gov>
Cc: Stamper, Tony <tstamper@nrcc.com>
Subject: Observations 4 8 2019 AM 0900

Fire & Tank Farm Positive:

- Adequate fire protection around perimeter of tank farm but not a complete ring.
- Tanks 14 and 15 manways are open and degassing
- Tank 6 manways are open front and back
- Pipe leak between tanks 6 and 1 near loading rack has stopped.
- Contaminated liquid in pipe rack area outside but adjacent to secondary containment has been evacuated.
- Secondary containment has been pumped down and you can visually see the floor
- Tanks 7& 10 are now being pumped via vac truck
- Manways are open on tanks 2&3 and are being cleaned

Fire & Tank Farm Negative:

- VOC and Benzene emissions coming from leaking manifolds and piping

Environmental Positive:

- Ditch and Tucker Bayou at Tidal Rd looks better but still needs a lot of work. This is becoming less of a source of benzene
- Clean up crews are working diligently to change out absorbent pads
- Vac trucks now have carbon filters for emissions
- Underflow dam was placed in the concrete ditch beside the tank farm east of avenue J
- The underflow dams have been reinforced with dirt
- Assessment of Tucker Bayou found that there is less product in the bayou from tidal rd to Dow bridge

Environmental Negative:

- Spilled product remains on water in ditch from ITC south to Clean Harbors property.
- No flushing operations in ditch behind Clean Harbors. Still product in the ditch.
- VOC and Benzene emissions
- Large amount of product at Avenue J and Tidal rd.

If you have any questions please let us know.

Attention My new Email address is;

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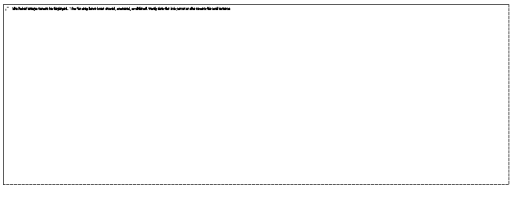

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Message

From: /O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/9/2019 3:25:48 AM
To: Brescia, Nicolas [brescia.nicolas@epa.gov]
Subject: FW: 215e Environmental Analysis
Attachments: 215E.PDF

Nick,

See copy of 215. There are 130 skimming vessels on the water and I think that it may not be the best use of time to try to track them by teams as they are moving them during the operational period based upon where the pockets of oil are located. Here is the 215 they are generating to somewhat identify where the resource is located.

Gary

From: Tasha Rios <trios@responsegroupinc.com>
Sent: Monday, April 08, 2019 7:16 PM
To: Moore, Gary <Moore.Gary@epa.gov>
Subject: 215e Environmental Analysis

Gary,

Here is the 215e Environmental Analysis that you have requested.

Message

From: Moore, Gary [Moore.Gary@epa.gov]
Sent: 4/7/2019 3:48:55 AM
To: Randy Surgii [rsurgui@itcrm.com]
Subject: Fwd: 04/06/19 214B's for Div E
Attachments: 214B ITC tank farm 040619.doc; ATT00001.htm; 214B ITC Tucker Bayou 040619.doc; ATT00002.htm

Hello Randy,

This is the info for Div E that we recorded. I think it is a little thin as I would like to know volume recovered.

Gary Moore
EPA

Sent from my iPhone

Begin forwarded message:

> **From:** "Fisher, Kelsey" <fisher.kelsey@epa.gov>
> **Date:** April 6, 2019 at 7:35:40 PM CDT
> **To:** "Brescia, Nicolas" <brescia.nicolas@epa.gov>, "Moore, Gary" <Moore.Gary@epa.gov>
> **Subject: 04/06/19 214B's for Div E**
>
> Thank you!
>
> **Bray Kelsey Fisher**
> **Federal On Scene Coordinator**
> **U.S. Environmental Protection Agency – Region 6**
> **1445 Ross Avenue**
> **Dallas, TX 75202**
> **Office: (214) 665-2712**
> **Mobile: (469) 510-8825**

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/7/2019 3:48:49 AM
To: Randy Surgii [rsurgui@itcrm.com]
Subject: Fwd: 04/06/19 214B's for Div E
Attachments: 214B ITC tank farm 040619.doc; ATT00001.htm; 214B ITC Tucker Bayou 040619.doc; ATT00002.htm

Hello Randy,

This is the info for Div E that we recorded. I think it is a little thin as I would like to know volume recovered.

Gary Moore
EPA

Sent from my iPhone

Begin forwarded message:

> **From:** "Fisher, Kelsey" <fisher.kelsey@epa.gov>
> **Date:** April 6, 2019 at 7:35:40 PM CDT
> **To:** "Brescia, Nicolas" <brescia.nicolas@epa.gov>, "Moore, Gary" <Moore.Gary@epa.gov>
> **Subject: 04/06/19 214B's for Div E**
>
> Thank you!
>
> **Bray Kelsey Fisher**
> **Federal On Scene Coordinator**
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Message

From: /O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 1:47:46 PM
To: '=SMTP:Amy.Spall@WestonSolutions.com'
Subject: FW: 2nd 80s Fire Large Equipment Decon Plan, final approved
Attachments: 2nd 80s Fire Large Equipment Decon Plan FINAL signed.pdf

From: Helen Dubach <hdubach@ctehrm.com>
Sent: Thursday, April 18, 2019 6:50 AM
To: spill12 <spill12@tceq.texas.gov>; Moore, Gary <Moore.Gary@epa.gov>; Bob Patton <bob.patton@tceq.texas.gov>; Martin, Johnathan (PCS) <Johnathan.Martin@pcs.hctx.net>
Cc: Karrah Shremshock <KShremshock@iterm.com>
Subject: 2nd 80s Fire Large Equipment Decon Plan, final approved

Please find attached the Large Equipment and Vessel (Southwest Shipyards) Decon Plan. Thank you to all involved in getting this one finalized.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

2nd 80s Fire
Deer Park, Texas
Large Equipment and Vessel (Southwest Shipyard)
Decontamination Plan
Version 1.0
Date: 04/17/2019

Approval:

Position	Name	Signature	Date
Incident Commander			4/17/19
FOSC			4/17/19
SOSC	Kendra Bumgarner		4/17/19

SOUTHWEST SHIPYARD, L.P.
18310 Market Street, Channelview, Texas 77530 Phone: 281-860-3200 Fax: 281-
8502 Cypress Street, Houston, Texas 77012 Phone: 713-967-6300 Fax: 713-967-6301
1002 Texas Clipper Rd., Galveston, Texas 77554 Phone: 409-740-3755 Fax: 409-740-3451

Preface:

The 2nd 80s Fire Equipment Decontamination Plan provides the plan for the decontamination of on-water response equipment and small response vessels at the Enterprise location (15902 Peninsula St, Houston 77015), and has been submitted for UC approval.

The 2nd 80s Fire Decon Plan, commonly named the "Passing Vessel Decon Plan", provides the plan for the decontamination of passing vessels and barges in the ship channel, i.e. passing commercial traffic not related to the oil spill response.

This separate 2nd 80s Fire Large Equipment and Vessel Decontamination Plan provides the plan for decontamination of large response vessels and barges, all MSRC (Marine Spill Response Corporation) equipment, and other response equipment that may be too large to handle at the Enterprise site.

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SOUTHWEST SHIPYARD L.P. DECON PLAN

ITC has selected Southwest Shipyard as a third-party contractor to perform decontamination of MSRC vessels and equipment, and other large vessels and equipment too large to be decontaminated at the Enterprise location. Southwest Shipyard is an organization that routinely offers this service to third party customers (see attached description of operations from Southwest Shipyard website). Southwest Shipyard shall operate in compliance with all applicable State, Federal and Local rules and regulations while performing under the contract.

Decon operations shall be conducted at Southwest Shipyard, 18310 Market Street, Channelview, TX 77530 in compliance with TPDES Permit No. WQ0002605000. In addition to the details listed below, Southwest Shipyard personnel will follow the process and procedures as outlined in MSRC, T&T, and all response vessels requested or assigned to Southwest Shipyard for decontamination.

1.1 Supervision and Preparations:

1.1.1 Supervision:

The Shipyard consistent with the US Coast Guard (USCG) Operations Manual and Captain of the Port (COTP) requirements designates a Person IN Charge (PIC) of the operation.

This Person:

a. Has proven experience in tank vessel cleaning and or stripping and knows:
   1) The hazards of current vessel chemical and or has immediate access to such information and;
   2) Understands the Shipyard's procedures for vessel decontamination and cleaning.

b. Shall have direct supervision and control of all vessel decontamination and cleaning operations and have a thorough knowledge of the use and application of the following
   1) Oxygen Analyzer
   2) Combustible Gas Detectors
   3) Benzene Detectors
   4) Tank Entry Procedures
   5) Shipyard Safety Guidelines

1.1.2 **Preparations: The following procedures will be implemented in preparation for decontamination of vessels:**

1) Notification of TCEQ Region 12 Air Program: TCEQ Air Program shall be notified 24 hours before opening, degassing, ventilation, and removing materials from 2md 80s Fire-related SBSs, pontoons, and associated tanks: 713-422-8943 (Joseph Doby)
2) Safety Meeting: A safety meeting is conducted by the PIC. The meeting covers the Safety Data Sheet (SDS). Procedures separately developed for handling spills will be covered. Handling, storage, and decontamination procedures are reviewed.
3) Work Areas: If manned vessels are alongside the vessel being decontaminated, their personnel will be notified and compliance with all appropriate safety

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measures shall be taken. Additionally, the area in the immediate vicinity of the vessel operations shall be accessed be authorized personnel only.

4) Portable Lamps and Electrical Equipment: Portable electric equipment shall be used only in designated "Safe Work Area". Only approved explosion-proof, battery fed, portable lamps and flashlights will be used.

MSRC 210 ft Oil Spill Response Vessels

Boom: contractor boom

Boom shall be placed in and cleaned in the barge cleaning area. Any equipment cleaned outside of barge cleaning area shall be transferred to decon pools for cleaning. All cleaning shall be to the satisfaction of the customer (i.e. vessel or equipment owner) representative on scene at the decon site.

Special attention should be given to the cable pockets and openings in the boom skirt when cleaning, to ensure that no residual material remains.

Upon acceptance of the boom as clean, all boom shall be placed back onto the MSRC vessels with original quantities as directed by representative at the decon site.

EFC Sea Sentry Boom

Boom shall be placed in the barge cleaning area and cleaned to the satisfaction of the customer representative.

All special handling requirements will be provided by customer representative for the boom once in decon.

Special attention should be given to the air valves for the inflation chambers when pressure washing or soaping boom. Every effort and precaution should be taken not to force water or soap into the air inflation chambers. Air inflation chambers should be in place prior to and during the decon process. Air inflation valves and caps should only be cleaned by hand wiping with soap and water or other cleaning solution.

Special attention should be given to the boom weight chain links. These areas are hard to clean and may require detailed hand cleaning to ensure that all released material is removed and the chain is clean.

All end connectors and tow bridles will be broken down by customer personnel and cleaned to the satisfaction of the customer representative at the decon site.

Southwest Shipyard will ensure that any cleaning solutions other than soap and water does not compromise the rubber integrity and vulcanized sections of the boom.

Boom weight is 8.5 lbs per foot. Personnel handling the boom should aware of pinch points and proper handling of boom due to weight of boom. **Do not lift boom with crane or any other lifting device without consulting the customer representative at the decon site**

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Work Boats

Workboats shall be cleaned to the satisfaction of the customer representative present at the decon site. Customer will be responsible for providing necessary maintenance personnel to disassemble any equipment. Customer will be responsible for providing necessary rigging requirements and blocking arrangements for their vessels. Customer will be responsible for re-inventory of vessels.

Decon Disposal:

Southwest Shipyard is responsible for all of the removal of released material from the response equipment and vessels to the satisfaction of the customer representative on site. Southwest Shipyard is responsible for the disposal of all household waste, hazardous solid waste and liquid waste generated during the decon process in accordance with all State and Federal Regulations (RCRA and 30 TAC Chapter 335).

All wash water during cleaning process will be routed through our onsite TPDES permitted Water Treatment Facility. (Permit No.WQ0002605000, attached). Any residual liquids will be pumped into drums, properly characterized, and disposed of at a permitted hazardous or non-hazardous waste facility. Wash water with remaining residual material will be routed to the Wastewater Treatment Plant, which is capable of treating organics in its biological treatment units, including constituents of firefighting foams. All wastes and waste water generated at Southwest Shipyard shall be managed in accordance their TPDES permit (#WQ0002605000)

SBS (Shallow-water Barge System) DECON PLAN:

Personnel shall follow all safety policies of Southwest Shipyard and customer during the decon process. Southwest Shipyard will perform site safety assessment and site safety plan for decon site. Safety meetings shall be held and documented during the entire decon process, prior to the set-up of decon, before the start of each shift, during decon demobe or as designated by the decon site safety officer in charge. SDS for all products used during the decon process shall be included in the decon site safety plan. SDS for recovered released material shall be included in the decon site safety plan.

SCOPE OF WORK

Cleaning of pontoons, push boats, skimmers, support equipment and ancillary equipment used during the event. ITC will track, during the demobilization process, all vessels and equipment that are deconned by Southwest Shipyard.

Consumable solids, such as rags, sorbent materials, PPE, shall be placed in drums, properly characterized, and transferred to a permitted waste treatment or disposal facility.

Tanks in vessels and skimmers are considered RCRA empty if they hold <1" of material at the lowest point, or less than 1% of the capacity of the container. Operations will ensure removal of any recovered released material/water mix prior to transfer to Southwest Shipyard. On receipt, Southwest Shipyard

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will gage the tanks to confirm RCRA empty status.

Any residual material that can be recovered from the vessels or equipment shall be removed prior to thedecontamination process, placed in drums or totes, properly characterized, and transferred to a permitted waste treatment or disposal site.

All response equipment shall be cleaned in a fashion that none of the equipment and ancillary equipment cleaned shall not put off a sheen on the water when deployed for future training or other purposes. Customer inspection and acceptance forms for vessels and equipment are attached.

Procedures SBS Pontoons

Weight 25,000 pounds per pontoon

Secure SBS pontoons alongside dock area.

Remove any residual materials from SBS pontoon tanks to shore side storage.

Remove all loose equipment from SBS decks. Do not lift pontoons with equipment on deck.

Un- pin SBS pontoons and separate pontoons for lifting.

Follow SBS JSA lifting plan for rigging pontoons and lifting into appropriate decon pool for final cleaning.

Set pontoons on pallets with pivot point in the middle for rocking pontoon back to other tank for cleaning.

Once pontoons are in decon pool perform air monitoring assessment of area and open tank hatches to begin ventilation.

Spray cleaning agent in tanks using respiratory protection and pressure washer. Once cleaning agent is sprayed in tanks continue air monitoring of tanks until all LEL levels have reached 0% and oxygen levels are normal.

Remove cleaning agent out from tanks using a small pump.

Once tank levels are sufficient for personnel to work in tanks, perform safety assessment plan for confined space entry and tank cleaning.

Remove above deck manifolds and place in decon pool for break down and cleaning.

Gross decon of the outer hull may be performed during the cleaning process of SBS tank internals.

Upon completion of the SBS tank internal cleaning and customer representative must inspect the tanks internals and sign off as clean.

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Upon acceptance by customer representative as clean tanks hatches shall be closed and final cleaning of hull and deck shall be done. Final cleaning of hull and deck to be accepted by customer representative as clean. Upon final cleaning of pontoons and acceptance from customer representative and prior to departure of pontoons from decon.

Prior to departure of SBS pontoons from decon site the following must be performed:

SBS pontoon manifolds installed back in place and bolted down securely.
All hatches for SBS pontoons must be secured.
All miscellaneous deck equipment and skimmer must be cleaned.
All miscellaneous deck supplies and other ancillaries must be inventoried and stored in its appropriate location.

SBS pontoons and deck equipment must be properly secured on trailer and pontoon prior to departure over the road.

PUSH BOAT PROCEDURES

Remove from water and place on trailer.

Move push boat into appropriate decon area for cleaning process.

Soap and wash push boat with pressure washer until clean. Outer hull, bilges, deck areas and other aspects of push boat shall be cleaned to the satisfaction of the designated customer representative on site.

Prior to departure from decon the following must be performed:

SBS push boat and equipment shall be secured on trailer for transportation.
SBS push boat equipment and ancillaries shall be inventoried and stored prior to departure of the push boat from decon.

DECON SITE

Southwest Shipyard will make every effort to have adequate dock space to safely accommodate the SBS pontoons while dockside.

Southwest Shipyard will have safe area for supporting lifting equipment to remove the pontoons and equipment from the water.

Southwest Shipyard will have adequate lay down area for decon pools and decon related equipment.

Southwest Shipyard will have adequate fresh water supply for pressure washers and rinsing equipment

in decon pools.

Detailed map of the decon site willbe included in the site safety plan.

The entire decontamination area is a curbed concrete slab, that is sloped towards a sump, which transfers all collected liquid to the Wastewater Treatment Plant.

The above list is not a required list and should be adjusted in accordance with the spacing and at the discretion of the decon forman and customer. Site safety assessment should provide requirements for safety equipment such as fire extinguishers and other safety gear for the decon site.

The following cleaning detergents are available for use. Authorization of use of any detergent will be given by customer representative on site prior to any use. SDS are provided with this plan and will be provided on site. The Wastewater Treatment Plant can handle and treat these cleaning agents, and have done as part of normal operations.

Voyage Cleaner

Simple Green

Dyna-Solv Butyl Degreaser

Diesel

OSRV INSPECTION AND ACCEPTANCE FORM

Incident:

Vessel:

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A. Contaminated Areas

The following spaces, areas, and equipment have been cleaned and repaired as necessary to the satisfaction of the customer.

1. TRANSREC 350 Skimmer
   - Hose (umbilical) inside and outside. _____
   - Hose Reel and Structure. _____
   - Skimmer Head(s). _____

   Notes on outstanding items: _____

2. Offshore Boom
   - EFC (Engineered Fabrics 23/44) 660ft. _____
   - Boom Reel for above _____
   - Oil Trawl _____
   - Reel for above _____

   Notes on outstanding items: _____

3. 32 foot Support Boat (Munson Boat) _____

   Notes on outstanding items: _____

4. OSRV Exterior Hull and Superstructure _____
   Anchors and anchor chain

   Notes on outstanding items: _____

5. OSRV Exterior Main Deck Surfaces, fittings, etc. _____

   Notes on outstanding items: _____

6. OSRV Exterior 01 Deck Surfaces, fittings, etc. _____

   Notes on outstanding items: _____

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7. OSRV Exterior 02 Deck Surfaces, fittings, etc. _____

   Notes on outstanding items: _____

8. OSRV Recovered Oil System & Cargo System Piping, Pumps, Headers, Manifolds, Valves. _____

   Notes on outstanding items: _____

9. OSRV Recovered Oil System Storage Tanks and Heater Coils, including all tank surfaces and internal structures. _____

   Notes on outstanding items: _____

10. RHIB(s) _____ Port _____ Starboard

    Notes on outstanding items: _____

11. Removal of all solid and liquid wastes not previously off loaded by the customer, as well as that generated by the decontamination process.

    _____

    Notes on outstanding items: _____

12. Open Oily Water Separator, remove coalescer pads, inspect all compartments for contamination, clean as necessary, replace all pads, and restore unit to working condition. _____

    Notes on outstanding items: _____

13. Clean-up and refurbishment or replacement of accessory items such as mooring lines, decon shelter, hydraulic hoses, work vests, life jackets, ring buoys, etc.

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1002 Texas Clipper Rd., Galveston, Texas 77554 Phone: 409-740-3755 Fax: 409-740-3451

Notes on outstanding items: _____

_____

B. Summary of Items remaining to be cleaned.

_____

_____

_____

_____

_____

_____

_____

_____

The items listed above will be completed on (date) _____, inspected by the customer, and signed off by the customer representative. Until sign off daily charges will continue as applicable.

C. Summary of Items remaining to be repaired/refurbished/replaced.

_____

_____

_____

_____

_____

_____

_____

_____

The items listed above will be completed on (date) _____, inspected by the customer, and signed off by the customer representative.

D. Related Non-Decon Issues - Reiteration.

Customer signature(s) below relate only to the above decon and repair issues. Other items such as OSRV demobilization time to homeport, fuel, etc. are addressed in

SOUTHWEST SHIPYARD, L.P.
18310 Market Street, Channelview, Texas 77530 Phone: 281-860-3200 Fax: 281-
8502 Cypress Street, Houston, Texas 77012 Phone: 713-967-6300 Fax: 713-967-6301
1002 Texas Clipper Rd., Galveston, Texas 77554 Phone: 409-740-3755 Fax: 409-740-3451

separate documents.

Signatures:

Customer Decon Representative: _____ _____ Date

Contractor Decon Foreman: _____ _____ Date

Response Supervisor: _____ _____ Date

Marine Ops Representative: _____ _____ Date

Vessel Master: _____ _____ Date

Vessel Ch. Engr. _____ _____ Date

Representative of Responsible Party: _____ _____ Date

SKIMMER INSPECTION AND ACCEPTANCE FORM

Incident: _____

SKIMMER TYPE	Description	INITIAL		
Item:		CUSTOMER	DECON CONTRACTOR	CUSTOMER REP

SOUTHWEST SHIPYARD, L.P.

18310 Market Street, Channelview, Texas 77530 Phone: 281-860-3200 Fax: 281-
8502 Cypress Street, Houston, Texas 77012 Phone: 713-967-6300 Fax: 713-967-6301
1002 Texas Clipper Rd., Galveston, Texas 77554 Phone: 409-740-3755 Fax: 409-740-3451

SKIMMER
ANCILLARY
EQUIPMENT

Outstanding Items: _____

_____

Miscellaneous Notes: _____

_____

_____

Signatures:

Customer Decon Representative:_____ **Date:** _____

Contract Decon Foreman:_____ **Date:** _____

Customer Representative:_____ **Date:** _____

Southwest Shipyard

Corporate Office
18310 Market Street
Channelview, Texas 77530
Phone
281-860-3200

Gas Freeing & Cleaning

The Gulf Coast's largest, fully permitted and compliant barge cleaning and gas freeing operation with waste water treatment.

We own and operate the largest, fully permitted and regulatory compliant barge cleaning and gas freeing operation of its kind on the gulf coast. With dedicated cleaning docks for up to ten barges, a full spectrum of utilities and crane services, we can provide fast, safe and environmentally less harmful cleaning and processing. We recycle 50% of the wash water we use.

Our gas freeing plant works round-the-clock to provide a quick turnaround, especially for "change-of-cargo" cleanings. We pride ourselves in providing these services with environmental protection and safety of our personnel as key objectives.

We strive to minimize both waste generation and emissions to the air to help ensure a clean future for our environment. In the past 4 years alone, we

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Our gas freeing personnel are well trained and dedicated to our core values. All shift supervisors are "competent persons" as defined by the United States Coast Guard. From poisons, to heavy oils, to chlorinated solvents, we have the facilities, equipment and experience to clean or gas free your vessel.

have reduced hazardous waste generation from our barge cleaning activities by more than 80%. We have also reduced volatile organic compounds (VOC) air emissions from barge cleaning operations by more than 25 tons per year over the past 5 years.

Waste Water Treatment

The company operates a fully TPDES permitted Industrial waste water treatment plant at the Channelview facility. All biodegradable barge washings, some ballast waters and storm water runoff is treated on-site and discharged. We recycle 50% of the water we use for all washings.

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About Southwest Shipyard

We have maintained a reputation for quality, service and safety that spans more than six decades and three generations of proud family ownership. Learn More »

Job Postings and Application Form

Download an application today! Applicacion en Espanol. Attach and email to jobs@swslp.com or fax to 281-860-3225 or apply in person Mon-Fri 1-3PM.

Our Services

- Gas Freeing & Cleaning
- Steaming & Flaring
- Barge & Boat Repair
- Surface Preparation & Painting
- New Construction

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

TPDES PERMIT NO.
WQ0002605000
[For TCEQ office use only -
EPA I.D. No. TX0092282]

This major amendment replaces
TPDES Permit No. WQ0002605000,
issued on March 18, 2018.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

Southwest Shipyard L.P.

whose mailing address is

18310 Market Street
Channelview, Texas 77530

is authorized to treat and discharge wastes from Southwest Shipyard, a marine vessel cleaning and repair facility (SIC 4491 and 3731)

located at 18310 Market Street in Channelview, Harris County, Texas 77530

via Outfalls 001, 003, 004, 005, and 006 directly to the Houston Ship Channel/San Jacinto River Tidal in Segment No. 1005 of the San Jacinto River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, three years from the date of permit issuance.

ISSUED DATE: November 26, 2018

For the Commission

ED_002627_00017890-00018

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS — Outfall Number 001

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge treated wastewaters, which include barge wash water, third-party biotreatable wastewater [1], domestic wastewater, utility wastewaters (vacuum tower cooling water and boiler blowdown), steam condensate, barge ballast water, water treatment wastes [2], fresh water filter backwash, and contaminated stormwater runoff subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.200 million gallons per day (MGD). The daily maximum flow shall not exceed 0.300 MGD.

Effluent Characteristics	Discharge Limitations					Minimum Self-Monitoring Requirements	
	Daily Average		Daily Maximum		Single Grab	Report Daily Average and Daily Maximum	
	lbs/day	mg/L	lbs/day	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	0.200 MGD		0.300 MGD		N/A	1/day	Instantaneous
Chemical Oxygen Demand	190	Report	280	Report	440	1/week	Composite
Carbonaceous Biochemical Oxygen Demand, 5-day	16.6	10	33.3	20	30	1/week	Composite
Total Suspended Solids	29.0	26	64.7	58	85	1/week	Composite
Oil and Grease	18.0	16	39.5	20	20	1/week	Grab
Ammonia Nitrogen	5.0	3.0	10.0	6.0	6.0	1/week	Grab
Cyanide, Free [3]	N/A	Report	N/A	Report	N/A	1/week	Grab
Chlorine Residual	N/A	1.0, min	N/A	4.0	4.0	1/week	Grab
Dissolved Oxygen	N/A	4.0, min	N/A	N/A	4.0	1/week	Grab
Sulfide	N/A	N/A	Report	Report	N/A	1/week	Grab
Total Phenols (4AAP)	N/A	N/A	N/A	0.35	0.35	1/week	Grab
Enterococci [4, 5]	N/A		Report		N/A	1/month	Grab
Enterococci [4, 6]	35		104		104	1/month	Grab
Total Cadmium	N/A	N/A	0.017	0.02	0.02	1/month	Grab
Total Chromium	N/A	N/A	0.371	0.42	0.42	1/month	Grab
Hexavalent Chromium	N/A	N/A	N/A	Report	N/A	1/month	Grab

[1] See Other Requirement Nos. 4, 5, and 6.
[2] See Other Requirement No. 12.
[3] Compliance shall be determined using the analytical method for available cyanide. See Other Requirement No. 10.
[4] Colony-forming units (cfu) or most probable number (MPN) per 100 mL.
[5] Effective beginning upon the date of permit issuance and lasting for 365 days.
[6] Effective beginning one year from the date of permit issuance and lasting until the date of permit expiration.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001 Cont.

Effluent Characteristics	Discharge Limitations					Minimum Self-Monitoring Requirements	
	Daily Average		Daily Maximum		Single Grab	Report Daily Average and Daily Maximum	
	lbs/day	mg/L	lbs/day	mg/L	mg/L	Measurement Frequency	Sample Type
Total Copper	N/A	N/A	0.151	0.091	0.091	1/month	Grab
Total Lead	N/A	N/A	0.123	0.14	0.14	1/month	Grab
Total Mercury	0.0014	0.00085	0.0016	0.0013	0.0013	1/month	Grab
Total Nickel	0.245	0.147	0.513	0.31	0.31	1/month	Grab
Total Zinc	N/A	N/A	Report	0.53	0.53	1/month	Grab
Benzene	N/A	N/A	N/A	0.13	0.13	1/month	Grab
Naphthalene	N/A	N/A	N/A	0.06	0.06	1/month	Grab
Phenanthrene	0.020	0.012	0.041	0.025	0.025	1/month	Grab
BTEX, Total [7]	0.166	0.10	0.166	0.10	0.10	1/month	Grab
Total Petroleum Hydrocarbons	25.0	15.0	25.0	15.0	15.0	1/month	Grab
Polynuclear Aromatic Hydrocarbons	0.016	0.01	0.016	0.01	0.01	1/month	Grab
Sublethal Whole Effluent Toxicity (WET) limits 8% (Parameter 51712) [8]							
Menidia beryllina (Chronic NOEC [9])		8%		8%	N/A	1/quarter	Composite

2. The effluent shall contain a chlorine residual of at least 1.0 mg/L and a maximum chlorine residual of 4.0 mg/L after a detention of at least 20 minutes (based on peak flow), and shall be monitored once per week, by grab sample. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

3. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/day by grab sample.

4. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

5. Effluent monitoring samples must be taken at the following location: At Outfall 001, after final treatment, prior to leaving company property via the discharge pipe, and prior to entering the San Jacinto River.

[7] Total of benzene, toluene, ethylbenzene, and total xylenes.
[8] Report the sublethal No Observed Effect Concentration (NOEC).
[9] The NOEC is defined as the greatest effluent dilution at which no significant sublethality is demonstrated. Significant sublethality is defined as a statistically significant difference between a specified effluent dilution and the control for the sublethal endpoint.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 003

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge dry dock runoff [1] and stormwater runoff subject to the following effluent limitations:

Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	Report, MGD	Report, MGD	N/A	1/day [3]	Estimate
Total Suspended Solids [2]					
- Upstream	Report	Report	N/A	1/week [3]	Grab
- Outfall 003	Report	Report	N/A	1/week [3]	Grab
- Net	50	100	100	1/week	Grab
Oil and Grease	N/A	15	15	1/week [3]	Grab
Total Arsenic	0.23	0.49	0.49	1/week [3]	Grab
Total Copper	Report	Report	N/A	1/week [3]	Grab
Total Nickel	0.12	0.25	0.25	1/week [3]	Grab
Total Silver	0.007	0.016	0.016	1/week [3]	Grab
Total Zinc	N/A	Report	N/A	1/month [3]	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week [3] by grab sample.

3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples must be taken at the following location: At Outfall 003, where water from the deck of Dry Dock No. 1 is discharged into the San Jacinto River.

[1] When discharging following external repairs that may include, but are not limited to, sand blasting, refinishing and painting. See Other Requirement No. 7.
[2] See Other Requirement No. 9.
[3] When discharging.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS — Outfall Number 004

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge dry dock runoff [1] and stormwater runoff subject to the following effluent limitations:

Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	Report, MGD	Report, MGD	N/A	1/day [3]	Estimate
Total Suspended Solids [2]					
- Upstream	Report	Report	N/A	1/week [3]	Grab
- Outfall 004	Report	Report	N/A	1/week [3]	Grab
- Net	50	100	100	1/week [3]	Grab
Oil and Grease	N/A	15	15	1/week [3]	Grab
Total Arsenic	0.23	0.49	0.49	1/week [3]	Grab
Total Copper	Report	Report	N/A	1/week [3]	Grab
Free Cyanide [4]	0.009	0.019	0.019	1/week [3]	Grab
Total Nickel	0.12	0.25	0.25	1/week [3]	Grab
Total Selenium	Report	Report	N/A	1/week [3]	Grab
Total Silver	0.007	0.016	0.016	1/week [3]	Grab
Total Zinc	0.25	0.53	0.53	1/week [3]	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week [3] by grab sample.

3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples must be taken at the following location: At Outfall 004, where water from the deck of Dry Dock No. 2 is discharged into the San Jacinto River.

[1] When discharging following external repairs that may include, but are not limited to, sand blasting, refinishing and painting. See Other Requirement No. 7.
[2] See Other Requirement No. 9.
[3] When discharging.
[4] Compliance shall be determined using the analytical method for available cyanide. See Other Requirement No. 10.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS — Outfall Number 005

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge dry dock runoff [1] and stormwater runoff subject to the following effluent limitations:

Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	Report, MGD	Report, MGD	N/A	1/day	Estimate
Total Suspended Solids [2]					
- Upstream	Report	Report	N/A	1/week [3]	Grab
- Outfall 005	Report	Report	N/A	1/week [3]	Grab
- Net	50	100	100	1/week [3]	Grab
Oil and Grease	N/A	15	15	1/week [3]	Grab
Total Copper	Report	Report	N/A	1/week [3]	Grab
Total Zinc	N/A	Report	N/A	1/month [3]	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week [3] by grab sample.

3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples must be taken at the following location: At Outfall 005, where water from the deck of Dry Dock No. 3 is discharged into the San Jacinto River.

[1] When discharging following external repairs that may include, but are not limited to, sand blasting, refinishing and painting. See Other Requirement No. 7.
[2] See Other Requirement No. 9.
[3] When discharging.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS — Outfall Number 006

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge barge ballast water [1] subject to the following effluent limitations:

Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	Report, MGD	Report, MGD	N/A	1/day [2]	Estimate
Total Suspended Solids	N/A	100	100	1/week [2]	Grab
Chemical Oxygen Demand	N/A	150	150	1/week [2]	Grab
Oil and Grease	N/A	15	15	1/week [2]	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week [2] by grab sample.

3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples must be taken at the following location: At Outfall 006, located at latitude 29°47'22", between Outfall 001 and Dry Dock No. 1, where the effluent exits the ballast tanks and prior to entering the San Jacinto River.

[1] Ballast water shall not contact any materials in the barge cargo tanks, spilled materials, or any other materials which could impact the quality of the discharge.
[2] When discharging.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

   a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.

   b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

   c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

   d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

   e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

   f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

   a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

      i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

      ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

   b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

   c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

   d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total

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mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day.

The "daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD × Concentration, mg/L × 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).

b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

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As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

   a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

   b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

   a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

   b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

   c. Records of monitoring activities shall include the following:

      i. date, time, and place of sample or measurement;
      ii. identity of individual who collected the sample or made the measurement;
      iii. date and time of analysis;
      iv. identity of the individual and laboratory who performed the analysis;
      v. the technique or method of analysis; and
      vi. the results of the analysis or measurement and quality assurance/quality control records.

      The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

   If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

   All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site or shall be readily available for review by a TCEQ representative for a period of three years.

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6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

7. Noncompliance Notification

a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

i. unauthorized discharges as defined in Permit Condition 2(g).

ii. any unanticipated bypass that exceeds any effluent limitation in the permit.

iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. one hundred micrograms per liter (100 µg/L);

ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

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iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
iv. the level established by the TCEQ.

b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. five hundred micrograms per liter (500 µg/L);
ii. one milligram per liter (1 mg/L) for antimony;
iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
iv. the level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;

b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

c. for the purpose of this paragraph, adequate notice shall include information on:

i. the quality and quantity of effluent introduced into the POTW; and
ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

i. violation of any terms or conditions of this permit;
ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

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b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

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4. Permit Amendment or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or

      ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

      iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

   e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

   f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

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6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy.

a. Each permittee shall notify the executive director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

i. the permittee;
ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;
ii. the permit number(s);
iii. the bankruptcy court in which the petition for bankruptcy was filed; and
iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

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3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).

7. Documentation

   For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

   a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

      If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 149) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

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b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:

a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.

e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:

i. volume of waste and date(s) generated from treatment process;
ii. volume of waste disposed of on-site or shipped off-site;

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iii. date(s) of disposal;
iv. identity of hauler or transporter;
v. location of disposal site; and
vi. method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

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OTHER REQUIREMENTS

1. The executive director reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office and determined that the action is consistent with the applicable CMP goals and policies.

2. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 12 and the Enforcement Division (MC 224):

Pollutant	MAL [1] (mg/L)
Arsenic (Total)	0.0005
Cadmium (Total)	0.001
Chromium (Total)	0.010
Copper (Total)	0.010
Cyanide (Available)	0.006
Lead (Total)	0.005
Mercury (Total)	0.0002
Nickel (Total)	0.010
Silver (Total)	0.0005
Zinc (Total)	0.005
Benzene	0.010
Ethylbenzene	0.010
Naphthalene	0.010
Phenanthrene	0.010
Phenol	0.010
Toluene	0.010
Xylene (Total)	0.010

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

Pollutant	MAL [1] (mg/L)
Chromium (Hexavalent)	0.010
Selenium (Total)	0.005

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero (0) based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

1 Minimum analytical level.

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"The reported value(s) of zero for ___ [list pollutant(s)] ___ on the self-reporting form for [monitoring period date range] ___ is based on the following conditions: 1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and 2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

3. MIXING ZONES

   a. The chronic aquatic life mixing zone and human health mixing zone at Outfall 001 are defined as a volume within a radius of 100 feet from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone. The zone of initial dilution (ZID) is defined as a volume within a radius of 50 feet from the point of discharge.

   b. The ZID at Outfall 003 is defined as a volume within 30 feet from the dry dock screens through which the discharge occurs. Acute toxic criteria apply at the edge of the ZID.

   c. The ZID at Outfall 004 is defined as a volume within 30 feet from the dry dock screens through which the discharge occurs. Acute toxic criteria apply at the edge of the ZID.

   d. The ZID at Outfall 005 is defined as a volume within 30 feet from the dry dock screens through which the discharge occurs. Acute toxic criteria apply at the edge of the ZID.

   e. The ZID at Outfall 006 is defined as a volume within 37 feet from the dry dock screens through which the discharge occurs. Acute toxic criteria apply at the edge of the ZID.

4. The term *third-party biotreatable wastewater* means wastewater that is from third-party sources, such as tank truck washing operations, container washing operations, tank cleaning operations, barges, tractor trailers, or other washing operations that are similar to the on-going barge cleaning operations at Southwest Shipyard, L.P.

5. This permit does not provide authorization for the permittee to accept wastewaters from third-party sources, nor does it prohibit acceptance of such wastewaters. This permit only provides authorization to discharge these wastes. Should authorization to accept third-party wastes be required, it is the obligation of the permittee to obtain such authorization from the appropriate regulatory authority.

6. For wastewaters processed by the biological wastewater treatment system, the residual cargo must be removed and not processed via the biological wastewater treatment system. Washwater and third-party biotreatable wastewater may be processed by the biological treatment system.

7. The following Best Management Practices (BMPs) are applicable to the dry dock operations and are to be followed and documented.

   BMP 1. Control of Large Solid Materials. Scrap metal, wood, plastic, miscellaneous trash such as paper and glass, industrial scrap and waste such as insulation, welding rods, packaging, etc. shall be removed from the dry dock floor prior to flooding or sinking.

   BMP 2. Control of Blasting Debris. Clean-up of spent paint and abrasive shall be undertaken as part of the regular repair or production activities to the degree technically feasible to prevent its entry into the drainage systems. Mechanical clean-up may be accomplished

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by mechanical sweepers, front loaders, or innovative equipment. Manual methods include the use of shovels and brooms. Innovations and procedures which improve the effectiveness of clean-up operations shall be adopted where they can be demonstrated as preventing the discharge of solids. Those portions of the dry dock floor which are reasonably accessible shall be scraped or swept clean of spent abrasive prior to flooding.

After a vessel has been removed from the dry dock and the dock has been deflooded for repositioning of the keel and bilge blocks, the remaining areas of the floor which were previously inaccessible shall be cleaned by scraping or sweeping prior to the introduction of another vessel into the dry dock. The requirement to clean the previously inaccessible area shall be waived either in an emergency situation or when another vessel is ready to be introduced into the dry dock within fifteen hours. Where tides are not a factor, this time shall be eight hours.

BMP 3. Oil, Grease and Fuel Spills. During the dry dock period, oil, grease, or fuel spills shall be prevented from reaching drainage systems and from discharging with drainage water. Clean-up shall be carried out promptly after an oil, grease, or fuel spill is detected.

BMP 4. Paint and Solvent Spills. Paint and solvent spills shall be treated as oil spills and segregated from discharging water. Spills shall be contained until the clean-up is completed. Mixing of paint shall be carried out in locations and under conditions such that spills shall be prevented from entering drainage systems and discharging with the drainage water.

BMP 5. Abrasive Blasting Debris (Graving Docks). Abrasive blasting debris in graving docks shall be prevented from discharging with drainage water. Such blasting debris that deposits in drainage channels shall be removed promptly and as completely as is feasible. In some cases, covers can be placed over the drainage channels, trenches, and other drains in graving docks to prevent the entry of abrasive blasting debris.

BMP 6. Contact between Water and Debris. Shipboard cooling and process water shall be directed so as to minimize contact with spent abrasive and paint and other debris. Contact of spent abrasive and paint by water can be reduced by proper segregation and control of wastewater streams. When debris is present, hosing of the dock should be minimized. When hosing is used as a removal method, appropriate methods should be incorporated to prevent the accumulation of debris in drainage systems and to promptly remove it from such systems to prevent its discharge with wastewater.

BMP 7. Maintenance of Gate Seals and Closure. Leakage through the gate shall be minimized by repair and maintenance of the sealing surfaces and proper seating of the gate. Appropriate channeling of leakage water to the drainage system should be accomplished in a manner that reduces contact with debris.

BMP 8. Maintenance of Hoses, Soil Chutes, and Piping. Leaking connections, valves, pipes, hoses, and soil chutes carrying either water or wastewater shall be replaced or repaired immediately. Soil chute and hose connections to the vessel and to receiving lines or containers shall be positive and as leak free as practicable.

8. There shall be no discharge of materials either listed or characterized as hazardous.

9. The permittee shall take Total Suspended Solids (TSS) samples from the San Jacinto River upstream at a point just prior to each Outfall (003, 004, and 005), and where the water overflows the dry dock. The permittee shall also take Outfall TSS sample from each outfall (at a point just

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prior to the effluent entering the San Jacinto River). The permittee shall then, for each outfall, subtract the upstream (San Jacinto River) TSS measured value from the Outfall TSS measure value, and the difference shall be used as the net TSS discharged to the river. The net TSS discharged, will be used to evaluate compliance with the TSS effluent limitations in this permit.

10. The method for available cyanide using flow injection, ligand exchange, and amperometry (Method OIA-1677-09) may be used but is not specifically required. Approved analytical methods for available cyanide also include Cyanide Amenable to Chlorination (Method 4500 CN-G-2011) and Automated Distillation and Colorimetry (Method Kelada-01), which are approved in 40 CFR Part 136.

11. Wastewater discharged via Outfalls 003, 004, 005, and 006 must be sampled and analyzed as directed below for those parameters listed in Tables 1, 2, and 3 of Attachment A of this permit. Analytical testing for Outfalls 003, 004, 005, and 006 must be completed within 60 days of initial discharge. Results of the analytical testing must be submitted within 90 days of initial discharge to the TCEQ Industrial Permits Team (MC-148). Based on a technical review of the submitted analytical results, an amendment may be initiated by TCEQ staff to include additional effluent limitations, monitoring requirements, or both.

    Table 1: Analysis is required for all pollutants in Table 1. Wastewater must be sampled and analyzed for those parameters listed in Table 1 for a minimum of two sampling events that are each at least one week apart.

    Table 2: Analysis is required for those pollutants in Table 2 that are used at the facility that could in any way contribute to contamination in the discharges from Outfalls 003, 004, 005, or 006. Sampling and analysis must be conducted for a minimum of two sampling events that are each at least one week apart.

    Table 3: For all pollutants listed in Table 3, the permittee shall indicate whether each pollutant is believed to be present or absent in the discharge. Sampling and analysis must be conducted for each pollutant believed present for a minimum of one sampling event.

    The permittee shall report the flow at Outfalls 003, 004, 005, and 006 in MGD in the attachment. The permittee shall indicate on each table whether the samples are composite (C) or grab (G) by checking the appropriate box.

12. The term *water treatment wastes* includes, but is not limited to, cold lime water treatment wastes, demineralizer backwash, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, and reverse osmosis reject water.

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Attachment A

Table 1

Outfall No.: ☐C ☐G	Effluent Concentration (mg/L)				
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**
Flow (MGD)					
BOD (5-day)					
CBOD (5-day)					
Chemical Oxygen Demand					
Total Organic Carbon					
Dissolved Oxygen					
Ammonia Nitrogen					
Total Suspended Solids					
Nitrate Nitrogen					
Total Organic Nitrogen					
Total Phosphorus					
Oil and Grease					
Total Residual Chlorine					
Total Dissolved Solids					
Sulfate					
Chloride					
Fluoride					
Temperature (°F)					
Total Alkalinity (mg/L as $CaCO_3$)					
pH (Standard Units; min/max)					

	Effluent Concentration (µg/L)					MAL[1] (µg/L)
Total Aluminum						2.5
Total Antimony						5
Total Arsenic						0.5
Total Barium						3
Total Beryllium						0.5
Total Cadmium						1
Total Chromium						3
Trivalent Chromium						N/A
Hexavalent Chromium						3
Total Copper						2
Cyanide						6.0
Total Lead						0.5
Total Mercury						0.005
Total Nickel						2
Total Selenium						5
Total Silver						0.5
Total Thallium						0.5
Total Zinc						5.0

1 Minimum analytical level.

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Table 2

Outfall No.: ☐C ☐G Pollutant	Samp. 1 (µg/L) [2]	Samp. 2 (µg/L) [2]	Samp. 3 (µg/L) [2]	Samp. 4 (µg/L) [2]	Avg. (µg/L) [2]	MAL (µg/L)
Nonylphenol						333
Pentachlorophenol						5
Phenanthrene						10
Polychlorinated Biphenyls (PCBs) [3]						0.2
2,4,5-Trichlorophenol						50

Table 3

Outfall No.: ☐C ☐G Pollutant	Believed Present	Believed Absent	Effluent Concentration (mg/L) Average	Effluent Concentration (mg/L) Maximum	No. of Samples
Bromide					
Color (PCU)					
Nitrate-Nitrite (as N)					
Sulfide (as S)					
Sulfite (as SO_3)					
Surfactants					
Total Boron					
Total Cobalt					
Total Iron					
Total Magnesium					
Total Molybdenum					
Total Manganese					
Total Tin					
Total Titanium					

2 Indicate units if different from µg/L.
3 Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

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CHRONIC BIOMONITORING REQUIREMENTS: MARINE

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency and Methodology

a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival or growth of the test organisms.

b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified below and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms," third edition (EPA-821-R-02-014) or its most recent update:

1) Chronic static renewal 7-day survival and growth test using the mysid shrimp (*Mysidopsis bahia*) (Method 1007.0). A minimum of eight replicates with five organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

2) Chronic static renewal 7-day larval survival and growth test using the inland silverside (*Menidia beryllina*) (Method 1006.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 3%, 5%, 6%, 8%, and 11% effluent. The critical dilution, defined as 8% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

d. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. The sublethal NOEC effluent limitation of not less than 8% (see the EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS section) is effective at the permit issue date for the inland silverside.

f. At the permit issue date, should an inland silverside test fail (i.e., demonstrate significant toxicity) at the 8% effluent concentration, the testing frequency increases to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the testing frequency of once per quarter resumes.

g. Should a mysid shrimp test fail (i.e., demonstrate significant toxicity), the testing frequency for that test species increases to monthly until three consecutive tests pass

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(i.e., do not demonstrate significant toxicity), at which time the testing frequency of once per quarter resumes. If three or more failures are demonstrated during the permit term, a WET limit will be included in the subsequently reissued permit. Any two lethal failures in a three month period will require the permittee to initiate a TRE (see Part 5. Toxicity Reduction Evaluation).

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fails to meet any of the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean dry weight of surviving mysid shrimp of 0.20 mg or greater;

3) a control mean dry weight for surviving unpreserved inland silverside of 0.50 mg or greater and 0.43 mg or greater for surviving preserved inland silverside.

4) a control coefficient of variation percent (CV%) between replicates of 40 or less in the growth and survival tests;

5) a critical dilution CV% of 40 or less in the growth and survival endpoints for either growth and survival test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 37 or less for mysid shrimp growth; and

7) a percent minimum significant difference of 28 or less for inland silverside growth.

b. Statistical Interpretation

1) For the mysid shrimp and the inland silverside larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant

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effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is herein defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).

5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.

6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Part 1.b. will be used when making a determination of test acceptability.

7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected as close to the point of discharge as possible but unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of preexisting instream toxicity (i.e., fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, reconstituted seawater. Upon approval, the permittee may substitute other dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are

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representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th, for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the mysid shrimp, Parameter TLP3E, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the mysid shrimp, Parameter TOP3E, report the NOEC for survival.

3) For the mysid shrimp, Parameter TXP3E, report the LOEC for survival.

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4) For the mysid shrimp, Parameter TWP3E, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

5) For the mysid shrimp, Parameter TPP3E, report the NOEC for growth.

6) For the mysid shrimp, Parameter TYP3E, report the LOEC for growth.

7) For the inland silverside, Parameter TLP6B, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

8) For the inland silverside, Parameter TOP6B, report the NOEC for survival.

9) For the inland silverside, Parameter TXP6B, report the LOEC for survival.

10) For the inland silverside, Parameter TWP6B, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the inland silverside, Parameter TPP6B, report the NOEC for growth.

12) For the inland silverside, Parameter TYP6B, report the LOEC for growth.

d. Enter the following codes for the mysid shrimp retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

e. The permittee shall report the sublethal WET values for the 30-day average and the 7-day minimum under Parameter No. 51712 for the inland silverside. If more than one valid test was performed during the reporting period, the NOECs will be averaged arithmetically and reported as the daily average NOEC. The data submitted should reflect the lowest sublethal results during the reporting period.

4. Persistent Toxicity

The requirements of this part apply only when a test demonstrates a significant effect at the critical dilution. Significant effect and significant lethality were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth at the critical dilution when compared to the growth of the test organism in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) when the mysid shrimp demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE

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Action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE Action Plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled, "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations,

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methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end

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of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are herein defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond their control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and to specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

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TABLE 1 (SHEET 1 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

Dates and Times Composites Collected

No. 1 FROM: Date Time TO: Date Time

No. 2 FROM: TO:

No. 3 FROM: TO:

Test initiated: am/pm date

Dilution water used: Receiving water Synthetic dilution water

MYSID SHRIMP SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers								Mean Percent Survival			CV%*
	A	B	C	D	E	F	G	H	24h	48h	7 day	
0%												
3%												
5%												
6%												
8%												
11%												

* Coefficient of Variation = standard deviation x 100/mean

DATA TABLE FOR GROWTH OF MYSID SHRIMP

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
A						
B						
C						
D						
E						

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TABLE 1 (SHEET 2 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

DATA TABLE FOR GROWTH OF MYSID SHRIMP (Continued)

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
F						
G						
H						
Mean Dry Weight (mg)						
CV%*						
PMSD						

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (8%): _____ YES _____ NO

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

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TABLE 1 (SHEET 3 OF 4)

INLAND SILVERSIDE MINNOW LARVAL SURVIVAL AND GROWTH TEST

		Date Time		Date Time
Dates and Times Composites Collected	No. 1 FROM:	_____	TO:	_____
	No. 2 FROM:	_____	TO:	_____
	No. 3 FROM:	_____	TO:	_____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

INLAND SILVERSIDE SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
0%									
3%									
5%									
6%									
8%									
11%									

* Coefficient of Variation = standard deviation x 100/mean

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TABLE 1 (SHEET 4 OF 4)

INLAND SILVERSIDE LARVAL SURVIVAL AND GROWTH TEST

INLAND SILVERSIDE GROWTH

Percent Effluent	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight (mg)	CV%*
	A	B	C	D	E		
0%							
3%							
5%							
6%							
8%							
11%							
PMSD							

Weights are for: ____ preserved larvae, or ____ unpreserved larvae

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (8%): _____ YES _____ NO

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

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24-HOUR ACUTE BIOMONITORING REQUIREMENTS: MARINE

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this Section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the mysid shrimp (*Mysidopsis bahia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the inland silverside (*Menidia beryllina*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, then repeat, an invalid test during the same reporting period. The repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in Part 2.b., the control and dilution water shall consist of standard, synthetic, reconstituted seawater.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, additional toxicity testing, and other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, reconstituted seawater.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

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2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required of this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the mysid shrimp, Parameter TIE3E, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

2) For the inland silverside, Parameter TIE6B, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

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4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, here defined as a mean mortality of 50% or greater to organisms exposed to the 100% effluent concentration after 24-hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These additional effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in item 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5 of this Section.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The

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effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, the permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and to specify a chemical specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

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TABLE 2 (SHEET 1 OF 2)

MYSID SHRIMP SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

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TABLE 2 (SHEET 2 OF 2)

INLAND SILVERSIDE SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

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31208 SOUTHWEST SHIPYARD

Unit Number	Unit Type	Unit Status	Date of Status	Classes of Waste Managed in Unit Onsite / Offsite	Unit Permit Number	Unit # on Permit	Regulatory Status	Deed Recording Needed/Date
033	Waste water treatment plant	ACTIVE	10/10/2011	I / NA	NA	NA	08 RCRA Permit exempt-waste water treatment unit	YES /

Wastes Previously Managed at Unit: 01412031 Waste Decyl Alcohol, The; 02786041 Partially used epoxy paint

Description from Company: On-site Wastewater Treatment Plant

System Types: 081 Biological treatment with or without precipitation 120 Combination of chemical, biological, and/or physical treatment

Wastes Currently Managed at Unit:
05014091 Class 1 Non-halogenated; 04011021 Hazardous barge wash; 04051022 Class 2 Barge wash water; 04136609H Hazardous Organic; 04176091 Class 1 Non-hazardous; 04111051 Class 1 Aqueous Acids pH; 05056092 Class 2 Non Hazardous; 04021021 Class 1 barge wash water; 04052189H Hazardous Non-

Wastes Previously Managed at Unit:
02644042 Spent Activated Carbon; 00981021 Nonhazardous aqueous; 0185310H Spent filters with Methyl; 0129609H WWTU Sludge - Tank; 00564911 Dewatered Bio Sludge / 00973911 Nonhaz/Dewatered; 04319022 Supplemental plant trash - 02901141 Water within T-633 which; 00991021 Nonhazardous, Bio treated; 0104205H Recovered oil/water; 0243609H Waste Primary Settling; 0400102H Hazardous wash water; 0154310H Spent wastewater influent; 01933011 Soil contaminated with; 02813192 Spent zeolite resin used to; 0291219H Wash Water from Barge; 00574891 De watered clarifier sludge; 0111404H Spent activated carbon; 01464041 Spent carbon from

As of 12/20/2018, The next unassigned sequence number for UNITS is: 034

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Safety Data Sheet
Dyna-Solv Butyl Degreaser

SDS Revision Date: 05/11/2015

1. Identification

1.1. Product identifier

Product identity	Dyna-Solv Butyl Degreaser
Alternate Names	Dyna-Solv Butyl Degreaser

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	A One Chemicals & Equipment, Inc. 2902 East X Street Deer Park, Texas 77536
Emergency	
24 hour Emergency Telephone No.	(281) 542-5000
Customer Service: A One Chemicals & Equipment, Inc.	(281) 542-5000 Toll Free 877-644-1492

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Corr. 2;H315	Causes skin irritation.
Eye Dam. 1;H318	Causes serious eye damage.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

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H315 Causes skin irritation.

H318 Causes serious eye damage.

[Prevention]:

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethylene glycol monobutyl ether CAS Number: 0000111-76-2	< 15%	Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1][2]
Dodecylbenzenesulfonic acid. CAS Number: 0027176-87-0	< 15%	Acute Tox. 4;H302 Skin Corr. 1B;H314 Acute Tox. 3;H311 Eye Dam. 1;H318	[1]
Potassium hydroxide. CAS Number: 0001310-58-3	< 15%	Acute Tox. 4;H302 Skin Corr. 1A;H314	[1][2]

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In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation If symptoms develop, move away from exposure to fresh air. Administer oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. Keep warm and at rest. Call for prompt medical attention.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Wash with soap and large amounts of water. Remove contaminated clothing including shoes, after flushing has begun. Get prompt medical attention. Do not reuse until thoroughly cleaned or laundered.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Route(s) of Entry:
Inhalation, Skin, and ingestion

Health Hazards (Acute and Chronic):
EYES: May cause discomfort, injury, and burns.
SKIN: May cause moderate to severe irritation to skin. Repeated exposure may cause skin dryness or cracking. Concentrate will dry out and chap sensitive skin as would detergent and caustic exposure.
INGESTION: Nausea and vomiting, upset stomach. GI tract tissue damage.
INHALATION: Not expected to be a relevant route of exposure. May be irritating or damaging to the nose, throat, and upper respiratory tract. Fumes may upset stomach..

Signs and Symptoms of Exposure:
Eye irritation sign and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Dermatitis signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

Medical Conditions (Generally Aggravated by Exposure) Pre-existing skin and eye disorders may be aggravated by exposure. Symptoms similar to burns.

See section 2 for further details.

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Eyes	Causes serious eye damage.
Skin	Causes severe skin burns and eye damage.

5. Fire-fighting measures

5.1. Extinguishing media

Water, Class C, Foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of Carbon

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

Non-flammable

ERG Guide No. ---

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Stop Release or Spill. SMALL SPILL: For a small spill, take up material with an absorbent such as clay or sand and dispose of properly per local, state, and federal regulations. LARGE SPILL: Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Consult an expert on disposal of recovered material and ensure conformity to local, state, and federal regulations.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

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7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Keep container closed. Handle and open container with care. Store in a cool, well-vented location. Place away from incompatible materials. Do NOT reuse empty containers without commercial cleaning or reconditioning. Storage Temperature: 70oF minimum to 125oF maximum Loading Temperature: 70oF minimum to 150oF maximum

Incompatible materials: Strong oxidizing agents and acids.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA: 20 ppmRevised 2003,
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]
		Supplier	No Established Limit
0001310-58-3	Potassium hydroxide.	OSHA	No Established Limit
		ACGIH	Ceiling: 2 mg/m3
		NIOSH	C 2 mg/m3
		Supplier	No Established Limit
0027176-87-0	Dodecylbenzenesulfonic acid.	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0001310-58-3	Potassium hydroxide.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0027176-87-0	Dodecylbenzenesulfonic acid.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory	Not required unless product mist or vapor is created. Use a NIOSH-Approved respirator as required to prevent overexposure. In accord with 20CFR 1910.134, use either atmosphere-supplying or air-purifying respirator for organic vapors. For EO: If occupational exposure may or does exceed 1 ppm, respiratory protection is required. Use a NIOSH-Approved, atmosphere-supplying, full face piece respirator in pressure demand mode >10 ppm. NIOSH has approved full face- piece canister respirator with an end of service life indicator for >10ppm.
Eyes	Safety glasses with side shields, goggles or face shield are recommended.
Skin	Clean, long-sleeved clothing and rubber boots should be worn. Neoprene or nitrile gloves required.
Engineering Controls	Local Exhaust: Recommended Mechanical (General): Recommended
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Blue Liquid
Odor	Mild
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	Liquid
Initial boiling point and boiling range	205F
Flash Point	Pensky-Marten's Closed Cup
Evaporation rate (Ether = 1)	> 5 (Butyl Acetate=1)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** 1.0 **Upper Explosive Limit:** 10.0
Vapor pressure (Pa)	< 0.1 (mm Hg)
Vapor Density	> 5 (Air=1)
Specific Gravity	1.073 (H2O=1)
Solubility in Water	100%
Partition coefficient n-octanol/water (Log Kow)	Not Measured

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Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Oxidizers

10.5. Incompatible materials

Strong oxidizing agents and acids.

10.6. Hazardous decomposition products

Oxides of Carbon

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Ethylene glycol monobutyl ether - (111-76-2)	1,414.00, Guinea Pig - Category: 4	1,200.00, Guinea Pig - Category: 4	173.00, Guinea Pig - Category: NA	No data available	No data available
Dodecylbenzenesulfonic acid. - (27176-87-0)	No data available	No data available	No data available	No data available	No data available
Potassium hydroxide. - (1310-58-3)	365.00, Rat - Category: 4	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description

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Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes severe skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Ethylene glycol monobutyl ether - (111-76-2)	220.00, Fish (Piscis)	1,000.00, Daphnia magna	Not Available
Dodecylbenzenesulfonic acid. - (27176-87-0)	Not Available	Not Available	Not Available
Potassium hydroxide. - (1310-58-3)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

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13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	**DOT Hazard Class:** Not Applicable	**IMDG:** Not Applicable **Sub Class:** Not Applicable	**Air Class:** Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B E

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):

Dodecylbenzenesulfonic acid. (1,000.00)

Potassium hydroxide. (1,000.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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EPCRA 313 Toxic Chemicals:

Ethylene glycol monobutyl ether

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Dodecylbenzenesulfonic acid.

Ethylene glycol monobutyl ether

Potassium hydroxide.

Pennsylvania RTK Substances (>1%):

Dodecylbenzenesulfonic acid.

Ethylene glycol monobutyl ether

Potassium hydroxide.

16. Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats

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are not applicable.

End of Document

ED_002627_00017890-00072

Safety Data Sheet
Dyna-Solv Butyl Degreaser

SDS Revision Date: 05/11/2015

1. Identification

1.1. Product identifier

Product Identity	Dyna-Solv Butyl Degreaser
Alternate Names	Dyna-Solv Butyl Degreaser

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	A One Chemicals & Equipment, Inc. 2902 East X Street Deer Park, Texas 77536
Emergency	
24 hour Emergency Telephone No.	(281) 542-5000
Customer Service: A One Chemicals & Equipment, Inc.	(281) 542-5000 Toll Free 877-644-1492

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Corr. 2;H315	Causes skin irritation.
Eye Dam. 1;H318	Causes serious eye damage.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

ED_002627_00017890-00073

H315 Causes skin irritation.

H318 Causes serious eye damage.

[Prevention]:

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/Information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethylene glycol monobutyl ether CAS Number: 0000111-76-2	< 15%	Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1][2]
Dodecylbenzenesulfonic acid. CAS Number: 0027176-87-0	< 15%	Acute Tox. 4;H302 Skin Corr. 1B;H314 Acute Tox. 3;H311 Eye Dam. 1;H318	[1]
Potassium hydroxide. CAS Number: 0001310-58-3	< 15%	Acute Tox. 4;H302 Skin Corr. 1A;H314	[1][2]

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In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation If symptoms develop, move away from exposure to fresh air. Administer oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. Keep warm and at rest. Call for prompt medical attention.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Wash with soap and large amounts of water. Remove contaminated clothing including shoes, after flushing has begun. Get prompt medical attention. Do not reuse until thoroughly cleaned or laundered.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Route(s) of Entry:
Inhalation, Skin, and Ingestion

Health Hazards (Acute and Chronic):
EYES: May cause discomfort, injury, and burns.
SKIN: May cause moderate to severe irritation to skin. Repeated exposure may cause skin dryness or cracking. Concentrate will dry out and chap sensitive skin as would detergent and caustic exposure.
INGESTION: Nausea and vomiting, upset stomach. GI tract tissue damage.
INHALATION: Not expected to be a relevant route of exposure. May be irritating or damaging to the nose, throat, and upper respiratory tract. Fumes may upset stomach..

Signs and Symptoms of Exposure:
Eye irritation sign and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Dermatitis signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

Medical Conditions (Generally Aggravated by Exposure) Pre-existing skin and eye disorders may be aggravated by exposure. Symptoms similar to burns.

See section 2 for further details.

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Eyes	Causes serious eye damage.
Skin	Causes severe skin burns and eye damage.

5. Fire-fighting measures

5.1. Extinguishing media

Water, Class C, Foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of Carbon

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

Non-flammable

ERG Guide No. ---

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Stop Release or Spill. SMALL SPILL: For a small spill, take up material with an absorbent such as clay or sand and dispose of properly per local, state, and federal regulations. LARGE SPILL: Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Consult an expert on disposal of recovered material and ensure conformity to local, state, and federal regulations.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

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7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Keep container closed. Handle and open container with care. Store in a cool, well-vented location. Place away from incompatible materials. Do NOT reuse empty containers without commercial cleaning or reconditioning. Storage Temperature: 70oF minimum to 125oF maximum Loading Temperature: 70oF minimum to 150oF maximum

Incompatible materials: Strong oxidizing agents and acids.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA: 20 ppmRevised 2003,
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]
		Supplier	No Established Limit
0001310-58-3	Potassium hydroxide.	OSHA	No Established Limit
		ACGIH	Ceiling: 2 mg/m3
		NIOSH	C 2 mg/m3
		Supplier	No Established Limit
0027176-87-0	Dodecylbenzenesulfonic acid.	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0001310-58-3	Potassium hydroxide.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0027176-87-0	Dodecylbenzenesulfonic acid.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory	Not required unless product mist or vapor is created. Use a NIOSH-Approved respirator as required to prevent overexposure. In accord with 20CFR 1910.134, use either atmosphere-supplying or air-purifying respirator for organic vapors. For EO: If occupational exposure may or does exceed 1 ppm, respiratory protection is required. Use a NIOSH-Approved, atmosphere-supplying, full face piece respirator in pressure demand mode >10 ppm. NIOSH has approved full face- piece canister respirator with an end of service life indicator for >10ppm.
Eyes	Safety glasses with side shields, goggles or face shield are recommended.
Skin	Clean, long-sleeved clothing and rubber boots should be worn. Neoprene or nitrile gloves required.
Engineering Controls	Local Exhaust: Recommended Mechanical (General): Recommended
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Blue Liquid
Odor	Mild
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	Liquid
Initial boiling point and boiling range	205F
Flash Point	Pensky-Marten's Closed Cup
Evaporation rate (Ether = 1)	> 5 (Butyl Acetate=1)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** 1.0 **Upper Explosive Limit:** 10.0
Vapor pressure (Pa)	< 0.1 (mm Hg)
Vapor Density	> 5 (Air=1)
Specific Gravity	1.073 (H2O=1)
Solubility in Water	100%
Partition coefficient n-octanol/water (Log Kow)	Not Measured

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Auto-Ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Oxidizers

10.5. Incompatible materials

Strong oxidizing agents and acids.

10.6. Hazardous decomposition products

Oxides of Carbon

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Ethylene glycol monobutyl ether - (111-76-2)	1,414.00, Guinea Pig - Category: 4	1,200.00, Guinea Pig - Category: 4	173.00, Guinea Pig - Category: NA	No data available	No data available
Dodecylbenzenesulfonic acid. - (27176-87-0)	No data available	No data available	No data available	No data available	No data available
Potassium hydroxide. - (1310-58-3)	365.00, Rat - Category: 4	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description

ED_002627_00017890-00079

Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes severe skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Ethylene glycol monobutyl ether - (111-76-2)	220.00, Fish (Piscis)	1,000.00, Daphnia magna	Not Available
Dodecylbenzenesulfonic acid. - (27176-87-0)	Not Available	Not Available	Not Available
Potassium hydroxide. - (1310-58-3)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

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13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport Information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	**DOT Hazard Class:** Not Applicable	**IMDG:** Not Applicable **Sub Class:** Not Applicable	**Air Class:** Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15. Regulatory Information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B E

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):

Dodecylbenzenesulfonic acid. (1,000.00)

Potassium hydroxide. (1,000.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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EPCRA 313 Toxic Chemicals:

Ethylene glycol monobutyl ether

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Dodecylbenzenesulfonic acid.

Ethylene glycol monobutyl ether

Potassium hydroxide.

Pennsylvania RTK Substances (>1%):

Dodecylbenzenesulfonic acid.

Ethylene glycol monobutyl ether

Potassium hydroxide.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats

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are not applicable.

End of Document

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Safety Data Sheet: **Simple Green® All-Purpose Cleaner** ★

Version No. 13000-18C Issue Date: August 8, 2018 Supersedes Date: May 31, 2018 *OSHA HCS-2012 / GHS*

Section 1: IDENTIFICATION

Product Name: Simple Green® All-Purpose Cleaner
Additional Names:

Manufacturer's Part Number: **Please refer to Section 16*

Recommended Use: Cleaner & Degreaser for water tolerant surfaces.
Restrictions on Use: Do not use on non-rinsable surfaces.

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA

Telephone: 800-228-0709 • 562-795-6000 *Mon – Fri, 8am – 5pm PST*
Fax: 562-592-3830
Email: info@simplegreen.com

Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

This product has been assessed in accordance to 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200) and has been determined to not be classifiable as hazardous.

OSHA HCS 2012
Label Elements
Signal Word: None **Hazard Symbol(s)/Pictogram(s):** None required

Hazard Statements: None
Precautionary Statements: None
Hazards Not Otherwise Classified (HNOC): None
Other Information: None Known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent Range
Water	7732-18-5	> 84.8%*
C9-11 Alcohols Ethoxylated	68439-46-3	< 5%*
Sodium Citrate	68-04-2	< 5%*
Sodium Carbonate	497-19-8	< 1%*
Tetrasodium Glutamate Diacetate	51981-21-6	< 1%*
Citric Acid	77-92-9	< 1%*
Methylchloroisothiazolinone	26172-55-4	< 0.002%*
Methylisothiazolinone	2682-20-4	< 0.001%*
Fragrance	Proprietary Mixture	< 1%*
Liquitint Colorant	Proprietary Mixture	< 1%*

**specific percentages of composition are being withheld as a trade secret*

Section 4: FIRST-AID MEASURES

Inhalation: Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.
Skin Contact: Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.
Eye Contact: Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.
Ingestion: May cause upset stomach. Drink plenty of water to dilute. See section 11.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically

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Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO2, water spray or "alcohol" foam. Avoid high volume jet water.
Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides may be formed.
Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: *For non-emergency and emergency personnel:* See section 8 – personal protection. Avoid eye contact. Safety goggles suggested.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). If separation occurs, mix the product for reconstitution.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values: No components listed with TWA or STEL values under OSHA or ACGIH.

Appropriate Engineering Controls: Showers, eyewash stations, ventilation systems

Individual Protection Measures / Personal Protective Equipment (PPE)
Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.
Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Liquid	**Partition Coefficient: n-octanol/water:**	Not determined			
Odor:	Added sassafras odor	**Autoignition Temperature:**	Non-flammable			
Odor Threshold:	Not determined	**Decomposition Temperature:**	42.7°C (109°F)			
pH ASTM D-1293:	8.5 – 9.2	**Viscosity:**	Like water			
Freezing Point ASTM D-1177:	0-3.33°C (32-38°F)	**Specific Gravity ASTM D-891:**	1.01 – 1.03			
Boiling Point & Range ASTM D-1120:	101°C (213.8°F)	**VOCs:**	***Water & fragrance exemption in calculation**			
Flash Point ASTM D-93:	> 212°F	SCAQMD 304-91 / EPA 24:	0 g/L	0 lb/gal	0%	
Evaporation Rate ASTM D-1901:	½ Butyl Acetate @ 25°C	CARB Method 310**:	2.5 g/L	0.021 lb/gal	0.25%	
Flammability (solid, gas):	Not applicable	SCAQMD Method 313:	Not tested			
Upper/Lower Flammability or Explosive Limits:	Not applicable	**VOC Composite Partial Pressure:**	Not determined			
Vapor Pressure ASTM D-323:	0.60 PSI @77°F, 2.05 PSI @100°F	**Relative Density ASTM D-4017:**	8.42 – 8.59 lb/gal			
Vapor Density:	Not determined	**Solubility:**	100% in water			

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Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive.
Chemical Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Excessive heat or cold.
Incompatible Materials:	Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
Hazardous Decomposition Products:	Normal products of combustion - CO, CO2.

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation -	Overexposure may cause headache.
	Skin Contact -	Not expected to cause irritation, repeated contact may cause dry skin.
	Eye Contact -	Not expected to cause irritation.
	Ingestion -	May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions.
Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions.
Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.
Interactive effects: Not known.

Numerical Measures of Toxicity

Acute Toxicity:	Oral LD_{50} (rat)	> 5 g/kg body weight
	Dermal LD_{50} (rabbit)	> 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation:	Non-irritant per Dermal Irritection® assay modeling. No animal testing performed.
Eye Damage/Irritation:	Non/Minimal irritant per Ocular Irritection® assay modeling. No animal testing performed.
Germ Cell Mutagenicity:	Mixture does not classify under this category.
Carcinogenicity:	Mixture does not classify under this category.
Reproductive Toxicity:	Mixture does not classify under this category.
STOT-Single Exposure:	Mixture does not classify under this category.
STOT-Repeated Exposure:	Mixture does not classify under this category.
Aspiration Hazard:	Mixture does not classify under this category.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Aquatic:	Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC_{50} & IC_{50} ≥100 mg/L. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Terrestrial:	Not tested on finished formulation.

Persistence and Degradability:	Readily Biodegradable per OCED 301D, Closed Bottle Test. Reaches 100% biodegradability within 1 year or less.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.

Section 13: DISPOSAL CONSIDERATIONS

Unused or Used Liquid: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

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Section 14: TRANSPORT INFORMATION

U.N. Number: Not applicable
U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Marine Pollutant - NO
Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

U.S. (DOT) / Canadian TDG:	Not Regulated for shipping.	**ICAO/ IATA:**	Not classified as Hazardous
IMO / IDMG:	Not classified as Hazardous	**ADR/RID:**	Not classified as Hazardous

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories – Not applicable.
Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
Sections 302 – Not applicable.

Clean Air Act (CAA): Not applicable
Clean Water Act (CWA): Not applicable

State Right To Know Lists: No ingredients listed
California Proposition 65: No ingredients listed
Texas ESL:

Ethoxylated Alcohol	68439-46-3	60 µg/m³ long term	600 µg/m³ short term
Sodium Citrate	68-04-2	5 µg/m³ long term	50 µg/m³ short term
Sodium Carbonate	497-19-8	5 µg/m³ long term	50 µg/m³ short term
Citric Acid	77-92-9	10 µg/m³ long term	100 µg/m³ short term

This product has been classified as "not classifiable as hazardous" in accordance with Consumer Product Safety Commission (16 CFR Chapter 2), and labelled and packaged accordingly.

Section 16: OTHER INFORMATION

Size	UPC	Size	UPC
2 fl. oz.	043318131035	67.6 fl. oz.	043318130144
4 fl. oz.	043318130014	67.6 fl. oz.	043318000393
16 fl. oz.	043318130021	1 gallon	043318000799
22 fl. oz.	043318130229	1 gallon	043318130052
24 fl. oz.	043318130137	1 gallon	043318004957
32 fl. oz.	043318002557	1 gallon w/ dilution bottle	043318480492
32 fl. oz.	043318130335	140 fl. oz. w/ dilution bottle	043318001468
32 fl. oz.	043318000652	2.5 gallon	043318004889

USA items listed only. Not all items listed. USA items may not be valid for international sale.

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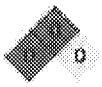
Section 16: OTHER INFORMATION - continued

NFPA:

Health – None
Flammability – Non-flammable
Stability – Stable
Special - None



Acronyms

NTP	National Toxicology Program	IARC	International Agency for Research on Cancer
OSHA	Occupational Safety and Health Administration	CPSC	Consumer Product Safety Commission
TSCA	Toxic Substances Control Act	DSL	Domestic Substances List

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.
This SDS has been revised in the following sections: Clarification on hazards in section 2, expanded transparency in section 3, revised layout in section 9, 14 & 16, added statement in section 15.

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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VOYAGE CLEAN

Version 1. 4/13/15

SAFETY DATA SHEET

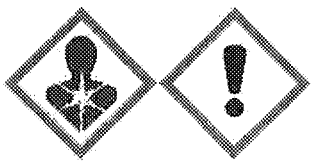
SECTION 1. PRODUCT AND COIMPANY IDENTIFICATION

Product Name	: Voyage Clean
Product Code	: VC
Product Description	: All Purpose High-Flash Solvent Based Cleaner and Degreaser
Company	: Gyro Chemical and Equipment Co. 5206 Railroad Street Deer Park Tx. 77536
Telephone	: (281)-479-5905
Fax	: (281)-479-6239
Emergency Telephone	: INFOTRAC 24 hour emergency response 1-800-535-5053 (US and Canada) 1-352-323-3500 (International)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification: Flammable Liquid, Category 4
Eye Damage, Category 2A
Possible Carcinogen, Category 2

GHS Label Elements:



Signal Word:	Warning
Hazard Statement:	Combustible Liquid, Causes serious eye irritation, Suspected of Causing cancer <,..>
Precaution Statements:	Keep away from flames and hot Surfaces -- No Smoking -Store in well ventilated place -Obtain Special Instructions before use. -Do not handle until all safety and precautions have been read and understood. -Wear protective gloves/protective clothing/eye protection/face protection.
Response Statement:	-In case of fire: Use water fog/foam/dry chemical/carbon dioxide to

extinguish flames. See section 5 for more information.
-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
-If exposed or concerned: Get medical advice/attention.

Environmental Hazard: May be toxic to aquatic organisms, may cause long lasting adverse effects in the aquatic environment.

Storage and Disposal: Refer to sections 7 for storage and 13 for disposal information.

Hazards not otherwise classified:

-Irritating to eyes, respiratory system and skin. Central nervous system depression.
-Combustible. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash/explode if ignited. Material can accumulate static charge which may cause an incendiary electrical discharge.
-If swallowed, may be aspirated and cause lung damage.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Reportable Hazardous Substances and Complex Substances:

Chemical Name	CAS-No.	Concentration
Solvent Naptha (Petroleum), Heavy Aromatic Blend	64742-94-5	≥ 80%
Nonyl phenoxy (polyethyleneoxy)ethanol	68412-54-4	≤ 1%
Nonylphenol ethoxylate	68412-54-4	≤ 1%
Hazardous Constituants Contained In Complex Substances		
Napthalene	91-20-6	≤ 1%
Psudocumene (1,2,4-Trimethylbencene)	95-63-6	≤ 1%

SECTION 4. FIRST AID MEASURES

Inhalation: After high vapor exposure, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If breathing is difficult give oxygen. If breathing is stopped trained personnel should begin resuscitation. It may be dangerous to a person giving mouth-to-mouth resuscitation. Maintain an open airway. Seek immediate medical attention. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Keep exposed persons under medical surveillance for 48 hours.

Skin Contact: If the product contaminates the skin, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse.

Eye Contact: If this product enters the eyes, open eyes and gently flush with water. Use sufficient force to open eyelids. Roll eyes to expose more surface area. Minimum flushing is for 15 minutes. Seek immediate medical attention.

Ingestion: If swallowed, CALL PHYSICIAN OR POISION CENTER FOR MOST CURRENT INFORMATION.DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to an unconscious/convulsing/unable to swallow person. Seek immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media:

-Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

-Inappropriate Extinguishing Media: Straight streams of water.

Specific Hazards:

-Combustible, Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

-Combustion products include: Smoke, Fume, Incomplete combustion products, Carbon oxides.

Precautions for Firefighters:

-Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Emergency Notification Procedure:

-In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting release od this material into the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent creeks. The national response center can be reached at (800)424-8802.

Personal Precautions and Protective Equipment:

-Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required do to combustibility of material. See section 5 for firefighting info. See section 2 for significant hazards. See section 4 for first aid advice. See section 8 for personal protection equipment.

Methods for Containment and Cleanup:

-Stop the spill at the source, dike area and contain. Clean up remainder with absorbent materials. Mop up and dispose of. Prevent entry into waterways, sewers and confined areas.

Vapor reducing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed materials.

SECTION 7. Handling and Storage

Precautions for Safe Handling

-Avoid contact with skin and eyes, do not swallow. Potentially toxic/irritating fumes/vapors may be evolved from heating or agitating chemical. Use with adequate ventilation. Prevent small spills and leakages to avoid slip hazard. Material can accumulate static charge which may cause electrical spark.

Storage

-Store in original container. Keep container closed and handle with care. Open slowly in order to mediate pressure release. Store in cool, well-ventilated areas.

Suitable containers: Tank Cars/Trucks; Barges; Drums; Steel Pails.

Suitable Materials and Coatings: Carbon/Stainless Steel; Copper; Bronze; Zinc Coatings; Epoxy Phenolic; Polyamide/Amine Epoxy; Viton; Polypropylene

Unsuitable Materials and Coatings: Vinyl Coatings; Butyl Rubber; Natural Rubber.

Section 8. Exposure controls and Personal Protection

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Ingredient	Form	Limit / Standard			Note	Source
Naphthalene		TWA	10 ppm	50 mg/m3	N/A	OSHA Z1
Naphthalene		STEL	15 ppm		Skin	ACGIH
Naphthalene		TWA	10 ppm		Skin	ACGIH
Psudocumene (1,2,4-Trimethylbenzene)		TWA	25 ppm		N/A	ACGIH
1,4-dioxane		TWA	20 ppm			ACGIH
Solvent Naptha (Petrolium), Heavy Aromatic	Vapor	RCP-TWA	17 ppm	100 mg/m3	Total Hydrocarbons	ExxonMobil

Note: Limits/Standards are shown for guidance only Follow applicable regulations.

Engineering Controls

-The levels of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measure to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion proof ventilation equipment.

Individual Protection Measures

-Personal protective equipment selections vary depending upon potential exposure conditions such as applications, handling practices, concentration and ventilation. Where ventilation is not adequate to protect worker health an approved respirator may be appropriate. For high vapor concentrations us an approved supplied-air respirator. Neoprene gloves are recommended when handling this material, chemical resistant gauntlet style gloves are recommended. Safety

glasses with side protection are recommended for eye protection. Always observe good hygiene measures and practice good housekeeping.

SECTION 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, Water White
Odor:	Aromatic
Odor Threshold	N/A
Density (15.5 °C):	0.899 (water = 1)
Flash Point [Method]	66°C (151°F) [ASTM D-56]
Flammable Limits (% vol. in air)	LEL: 0.8 UEL: 5.9
Auto ignition Temp.	545°C (1013°F)
Boiling Point / Range	189°C (367°F) - 204°C (399°F)
Vapor Density (AIR=1)	4.7 at 101 kPa
Vapor Pressure	0.074 kPa (0.56 mm Hg) at 20°C 0.26 kPa (1.95 mm Hg) at 38°C
Evaporation Rate (n-butyl acetate = 1)	< 0.1
pH:	N/A
Solubility in Water	n/a Emulsifies
Viscosity	0.99 cSt (0.99 mm2/sec) at 40°C
Freezing Point	-18°C (0°F)
Melting Point	N/A
Coefficient of Thermal Expansion	0.00085 V/VDEGC

Section 10. Stability and Reactivity

Stability:	Stable under normal conditions
Reactivity:	No known reactivity hazards
Possible Hazardous Reactions:	Vapors can ignite. Keep away from ignitions sources
Conditions to Avoid:	Open Flame, High energy ignition sources
Incompatible Materials:	Strong Acids, Strong Oxidizers, Strong Bases, Strong Reducing Agents.
Hazardous Decomp. Products:	Material does not decompose at ambient temperatures
Hazardous Polymerization:	Will not occur

Section 11. Toxicological Information

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity: Data Available Based on Similar Products	Minimally Toxic
Irritation: Data Available	Elevated temperatures or mechanical action may form vapors, mists, or fumes which may be irritating to eyes nose throat or lungs. Based on test data for structurally similar products.
Ingestion	
Toxicity: LD50 > 3,152 mg/kg based on additive formula for mixture	Minimally Toxic
Skin	
Toxicity: LD50 > 2000 mg/kg Based on similar products.	Minimally Toxic
Irritation: Data Available	Mildly irritating to skin with prolonged exposure
Eye	
Eye Damage: Based on similar products	A statistically significant percentage of ingredients pose a risk of serious damage to the eyes

Physical Symptoms: This product is irritating to contaminated tissue.
Sensitization: No component of this product is known to be a sensitizer.
Mutagenicity: No reported mutagenic effects in humans.
Embryotoxicity: No reported embryotoxic effects in humans.
Teratogenicity: No reported teratogen effects in humans
Reproductive Toxicity: No reported reproductive effects in humans

Chronic/Other Effects

-Vapors above exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death.

-Prolonged or repeated skin contact with low viscosity materials may defat skin resulting in irritation or dermatitis.

-Small amounts of liquids aspired into the lungs can cause chemical pneumonitis or pulmonary edema.

Contains

Naphthalene – CAS# 91-20-3: Listed on NTP SUS; IARC 2B

Exposure to high concentrations of Naphthalene may cause destruction of red blood cells anemia and cataracts. Naphthalene caused cancer in lab animals but is not a known human carcinogen.

Section 12 Ecological Information

Ecotoxicity:	-Material expected to be toxic to aquatic organisms. May cause long term effects in the aquatic environment. This product may be harmful to plant and animal life if released in the environment.
Percistance/Degradability	-Material expected to be inherently biodegradable. Expected to degrade rapidly in the air.
Soil Mobility:	-Material is highly volatile, will partition rapidly into the air. Not expected to partition to sediment or waste water solids.
Other Effects:	-N/A

Section 13. Disposable Considerations

Waste Treatment Methods:	-N/A

Section 14. Transport Information

Transport Information:	- UN1268, Petroleum Distillates, N.O.S., Combustible Liquid, PG-III
Hazard Class & Division:	-Combustible Liquid
NOTE:	**-This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land as long as the material I not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.**

Section 15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for this substance or mixture are undefined.

Section 16. Other Information

Date of SDS Revision: 5/20/2015

Additional Information About This Product: None

Disclaimer: This document is generated for the purpose of distributing health, safety, and environmental data. This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine suitability of the information provided for their particular purposes.

1. IDENTIFICATION

Product Identifier	Diesel Fuel
Synonyms:	Diesel Fuel, Motor Vehicle Diesel Fuel, Dyed Diesel, * DieselOne®, * DieselOne® w/Platinum Plus DFX, Low Sulfur Diesel (LSD), Ultra Low Sulfur Diesel (ULSD)
Intended use of the product:	Fuel
Contact:	Global Companies LLC Water Mill Center 800 South St. Waltham, MA 02454-9161 www.globalp.com
Contact Information:	EMERGENCY TELEPHONE NUMBER (24 hrs): CHEMTREC (800) 424-9300 COMPANY CONTACT (business hours): 800-542-0778

2. HAZARD IDENTIFICATION

According to OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture

Classification (GHS-US):

Flam. Liquid	Category 3	H226
Skin Corrosion/Irritation	Category 2	H315
Aspiration Hazard	Category 1	H304
STOT SE	Category 3	H336
Carcinogenicity	Category 2	H350
Aquatic Chronic	Category 2	H411
Serious Eye Damage/ Irritation	Category 2B	H319

Labeling Elements

Signal Word (GHS-US):	**Danger**
Hazard Statements (GHS-US):	H226 – Flammable liquid and vapor. H315 – Causes Skin Irritation. H304 – May be fatal if swallowed and enters airways. H336 – May cause drowsiness or dizziness. H350 – May cause cancer. H411 – Toxic to aquatic life with long lasting effects. H319 – May cause eye damage/irritation.
Precautionary Statements (GHS-US):	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. P240 – Ground/bond container and receiving equipment.

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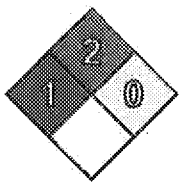
P241 – Use explosion-proof electrical/ventilating/lighting equipment pursuant to applicable electrical code.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash skin thoroughly after handling.
P271 – Use only outdoors or in a well-ventilated area.
P273 – Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower.
P308+311 - If exposed or concerned: Get medical advice/attention.
P301+310 - If swallowed: Immediately call a poison center/doctor/...
P331 - Do NOT induce vomiting.
P370+P378 – In case of fire use firefighting foam or other appropriate media for Class B fires to extinguish.
P403+235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 – Dispose of contents/container in accordance with local/regional/national/international regulation.

Other information:

NFPA 704
Health: 1
Fire: 2
Reactivity: 0



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition Information

Mixture

Name	Product Identifier (CAS#)	% (w/w)	Classification
Diesel Fuel	68476-34-6	100	Flam Liq. 3, H226; Skin Irrit. 2, H315; Aspiration 1, H304; STOT SE 3, H336; Carc.2. H350; Aquatic chronic 2, H411
Naphthalene	91-20-3	<0.1	Carc. 2, H351; Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Additional Formulation Information:

Diesel Fuel consists of C9+ hydrocarbons resulting from distillation of crude oil.

Low Sulfur Diesel Fuel typically contains less than 500 ppm of sulfur

Ultra Low Sulfur Diesel Fuel typically contains less than 15 ppm of sulfur

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4. FIRST AID MEASURES

Route	Measures
Inhalation	Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.
Ingestion	Aspiration Hazard: DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Ingestion may cause gastrointestinal disturbances including irritation, nausea, vomiting, and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory failure, and death.
Eye Contact	In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention. In case of contact lenses, remove immediately.
Skin Contact	Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and of the area of the body burned.

Most Important Symptoms
Contact with eyes and face may cause irritation. Long-term exposure may cause dermatitis (itching, irritation, pain and swelling).

Inhalation may cause irritation and significant or long term exposure could cause respiratory insufficiency and pulmonary edema.

Ingestion may cause aspiration, gastrointestinal disturbance, and CNS effects.

Immediate Medical Attention and Special Treatment
For contact with skin or eyes, immediately wash or flush contaminated eyes with gently flowing water. If possible, irrigate each eye continuously with 0.9% saline (NS). If ingested, rinse mouth. Do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

If inhaled, administer oxygen or establish a patent airway if breathing is labored. Suction if necessary. Monitor closely, anticipate seizures. Consider orotracheal or nostracheal intubation of airway control if patient is unconscious or is in severe respiratory distress.

Discard any clothing or shoes contaminated as they may be flammable.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Foam, carbon dioxide, dry chemical are most suitable

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, C02, water spray, firefighting foam, or Halon. Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other firefighting equipment.

LARGE FIRES: Foam, carbon dioxide, dry chemical. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Specific Hazards / Products of Combustion
Moderate fire hazard when exposed to heat or flame with a very low flash point. Product is flammable and easily ignited when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Combustion may produce smoke, carbon monoxide and other products of incomplete combustion.

Special Precautions and Protective Equipment for Firefighters
Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water.

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For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied firefighting foam.

Fighting Equipment/Instructions
Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH- approved pressure-demand self-contained breathing apparatus with full face piece and protective clothing.

Refer to Section 9 for fire properties of this chemical including flash point, auto ignition temperature, and explosive limits.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY SPCC, SPILL CONTINGENCY or EMERGENCY PLAN.

Personal Precautions
Due to high vapor density, flammable / toxic vapors may be present in low lying areas, dikes, pits, drains, or trenches. Vapors may accumulate in low lying areas and reach ignitable concentrations. Ventilate the area. Use of non-sparking tools and intrinsically safe equipment is recommended. Potential for flammable atmosphere should be monitored using a combustible gas indicator positioned downwind of the spill area. Refer to Sections 2 and 7 for further hazard warnings and handling instructions.

Use appropriate personal protective equipment to prevent eye/skin contact and absorption. Use NIOSH approved respiratory protection, if warranted, to prevent exposures above permissible limits. Refer to Section 8. Contaminated clothing should not be near sources of ignition.

Emergency Measures
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Consider wind direction. Secure all ignition sources (flame, spark, hot work, hot metal, etc.) from area. Evaluate the direction of product travel, diking sewers, etc. to confirm spill areas. Do not touch or walk-through spilled material. For large spills, isolate initial action distance downwind 1,000 ft. (300 m).

Environmental Precautions
Stop the spill to prevent environmental release if it can be done safely. Product is toxic to aquatic life. Take action to isolate environmental receptors including drains, storm sewers and natural water bodies. Keep on impervious surface if at all possible. Use water sparingly to prevent product from spreading. Foam and absorbents may be used to reduce / prevent airborne release.

Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Follow federal, state or local requirements for reporting environmental release where necessary. Refer to Section 15 for further information.

Containment and Clean-Up Methods
Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of firefighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with dry earth, sand or other non-combustible, inert oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container with clean, non-sparking tools for reclamation or disposal. Response and cleanup crews must be properly trained and must utilize proper protective equipment. Refer to Section 8 for appropriate protective equipment.

7. HANDLING AND STORAGE

USE ONLY AS A FUEL.
DO NOT SIPHON BY MOUTH.

Handling Precautions
Handle as a flammable liquid. Keep away from heat, sparks, and open flame. No smoking. Electrical equipment should be approved for classified area. Bond and ground containers during product transfer pursuant to NFPA 70 and API RP 2003 to

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reduce the possibility of static-initiated fire or explosion. Follow precautions to prevent static initiated fire.

Use good personal hygiene practices. Use only with protective equipment specified in Section 8. Avoid repeated and/or prolonged skin exposure. Use only outdoors or in well ventilated areas. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API RP 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage
Large quantities of diesel fuel are stored in tanks or portable containers at an ambient storage temperature. Separate from incompatible chemicals (Refer to Section 10) by distance or secondary containment. Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers that are clearly labeled. Label all secondary containers that this material is transferred into with the chemical name and associated hazard(s). Empty product containers or vessels may contain flammable vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Storage tanks should have a venting system. If stored in small containers, the area should be well ventilated, away from ignition sources and protected from potential damage or vehicular traffic. Post "No Smoking" signs in product storage areas. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code" or applicable building code. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks in Flammable and Combustible Liquid Service" and API RP 2015 "Safe Entry and Cleaning of Petroleum Storage Tanks".

Incompatibles
Keep away from strong oxidizers, ignition sources and heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Component	CAS #	List	Value
Diesel Fuel	68476-34-6	ACGIH TLV-TWA	100 mg/m3*
Naphthalene	91-20-3	ACGIH TLV-TWA OSHA PEL ACGIH STEL	10 ppm 10 ppm 15 ppm

*Critical effects; Skin; A3; CNS impairment.

Engineering Controls
Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Intrinsically safe equipment and non-sparking tools shall be used in circumstances where concentrations may exceed lower flammable limits. Grounding and bonding shall be used to prevent accumulation and discharge of static electricity. Emergency shower and eyewash should be provided in proximity to handling areas in the event of exposure to decontaminate.

Personal Protective Equipment

Exposure	Equipment
Eye / Face	Wear appropriate chemical protective glasses or goggles or face shields to prevent skin and eye contact especially caused from splashing.
Skin	Wear appropriate personal protective clothing to prevent skin contact. Gloves constructed of nitrile, neoprene or PVC are recommended when handling this material. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure.

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Exposure	Equipment
Respiratory	A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection and limitations. Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.
Thermal	Product is stored at ambient temperature. No thermal protection is required except for emergency operations involving actual or potential for fire. Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	
Appearance	Clear or straw-colored liquid. May be dyed red for distribution.	
Odor	Mild characteristic petroleum distillate odor.	
Odor Threshold	<1 ppm	
pH	Not available	
Melting Point	-22 to -0.4 °F (-30 to -18 °C)	
Boiling Point Range	320 to 690 °F (160 to 366 °C)	
Flash Point	> 125.6 °F (52 °C) PMCC	
Evaporation Rate	Slow, varies with conditions	
Flammability	Flammable liquid	
Flammable Limits	0.6 % - 6.5%	
Vapor Pressure	0.009 psia @ 70 °F	
Vapor Density	> 1	(air=1)
Specific Gravity	0.83-0.86 @ 60 °F (16 °C)	(water=1)
Solubility	Insoluble in water; miscible with other petroleum solvents.	
Partition Coefficient (N-octanol/water)	Log Kow range of 3.3 to >.6.0	
Autoignition Temperature	494 °F (257 °C)	
Decomposition Temperature	When heated it emits acrid smoke and irritating vapors.	
Viscosity	>3 cSt	
Percent Volatiles	100	

10. STABILITY AND REACTIVITY

Stability
This is a stable material that is flammable liquid (OSHA/GHS hazard category 3). Stable during transport.

Reactivity
Material is not self-reacting. Flammable concentrations may be present in air. Compound can react with oxidizing materials.

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Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Incompatibility
Keep away from strong oxidizers such as nitric and sulfuric acids.

Conditions to Avoid
Avoid high temperatures, open flames, sparks, static electricity, welding, smoking and other ignition sources.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Acute Toxicity (Inhalation LC50)
Diesel Fuel (68476-34-6)
LC50 Inhalation Rat >6 mg/l/4h

Acute Toxicity (Dermal LD50)
Diesel Fuel (68476-34-6)
LD50 Dermal Rabbit >5000 mg/kg

Acute Toxicity (Oral LD50)
Diesel Fuel (68476-34-6)
LD50 Oral Rabbit >5000 mg/kg

Skin Corrosion/Irritation: Prolonged and repeated contact may cause skin irritation leading to dermatitis. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: OSHA: NO, IARC: Group 3, NTP: NO, ACGIH: NOIC:A3, NIOSH: NO

IARC: Group 3 – Not classifiable as to their carcinogenicity to humans

ACGIH: A3 – Confirmed animal carcinogen with unknown relevance to humans.

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

IARC classifies whole diesel fuel exhaust particulates (byproduct of combustion of this material) carcinogenic to humans (Group 1) and NIOSH regards diesel fuel exhaust particulate as a potential occupational carcinogen.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Specific Target Organ Toxicity (Single Exposure): Inhalation exposure may cause drowsiness or dizziness by inhalation exposure.

Aspiration Hazard: The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Potential Health Effects: Vapor irritating to skin, eyes, nose, and throat. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

WARNING: The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of

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combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

12. ECOLOGICAL INFORMATION

Toxicity:
This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Data for Component: Diesel Fuel (68476-34-6)

Material is toxic to aquatic organisms based on an acute basis (LC50/EC50 >1 but ≤ 10 mg/L in the most sensitive species tested).

Material is a long-term aquatic hazard based on a chronic basis (LC50/EC50 >1 but ≤ 10 mg/L in the most sensitive species tested).

Persistence and Degradation: This material is not expected to be readily biodegradable.

Bioaccumulative Potential: Not available

Mobility in Soil: Not available

Other Adverse Effects: None known

Other information: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options. May be considered a hazardous waste if disposed. Direct solid waste (landfill) or incineration at a solid waste facility is not permissible. Do not discharge to sanitary or storm sewer. Personnel handling waste containers should follow precautions provided in this document.

Shipping containers must be DOT authorized packages. Follow licensure and regulations for transport of hazardous material and hazardous waste as applicable.

14. TRANSPORT INFORMATION

US DOT

UN Identification Number	NA 1993 / UN 1202
Proper Shipping Name	Diesel Fuel
Hazard Class and Packing Group	3, PGIII
Shipping Label	Combustible liquid
Placard / Bulk Package	Combustible liquid, 1993
Emergency Response Guidebook Guide Number	128

IATA Information

UN Identification Number	UN 1202
Proper Shipping Name	Combustible-Liquid, N.O.S. (Fuel, Diesel)
Hazard Class and Packing Group	3, PGIII
ICAO Label	3
Packing Instructions Cargo	310
Max Quantity Per Package Cargo	220L
Packing Instructions Passenger	309Y
Max Quantity per Package	60L

ICAO

UN Identification Number	UN 1202
Shipping Name / Description	Combustible-Liquid, N.O.S. (Fuel, Diesel)
Hazard Class and Packing Group	3, PG III
IMDG Label	3

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IMDG

UN Identification Number	UN 1202
Shipping Name / Description	Combustible-Liquid, N.O.S. (Fuel, Diesel)
Hazard Class and Packing Group	3, PGIII
IMDG Label	3
EmS Number	F-E-S-E
Marine Pollutant	Yes

15. REGULATORY INFORMATION

U.S. Federal, State, and Local Regulatory Information
Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state, or local regulations; consult those regulations applicable to your facility/operation.

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning And Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	Yes
Fire Hazard	Yes
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Clean Water Act (Oil Spills)
Any spill or release of this product to "navigable waters" (Essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA Section 103 and SARA Section 304 (Release to the Environment)
The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts this material. This product does not contain any chemicals subject to the reporting requirements of CERCLA Section 103 or SARA 304.

SARA Section 313- Supplier Notification
This product does not contain any chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

EPA Notification (Oil Spills)
If the there is a discharge of more than 1,000-gallons of oil into or upon navigable waters of the United States, or if it is the second spill event of 42 gallons or more of oil into water within a twelve (12) month period, a written report must be submitted to the Regional Administrator of the EPA within sixty days of the event.

Pennsylvania Right to Know Hazardous Substance list:
The following product components are cited in the Pennsylvania Special Hazardous Substance List, and are present at levels which require reporting.

Component	CAS	Amount
Diesel Fuel	68476-34-6	100%

New Jersey Right to Know Hazardous Substance list:
The following product components are cited in the New Jersey Right to Know Hazardous Substance List, and are present at levels which require reporting.

Component	CAS	Amount
Diesel Fuel	68476-34-6	100%

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California Proposition 65 WARNING: This product contains chemicals known to the State of California to cause Cancer or Reproductive Toxicity.

Component	CAS	Amount
Naphthalene	91-20-3	<0.1%

U.S. Toxic Substances Control Act
All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

CEPA - Domestic Substances List (DSL)
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Canadian Regulatory Information (WHMIS)
Class B3 – Combustible Liquid
Class D2A – Materials causing other toxic effects. (Very Toxic)

16. OTHER INFORMATION

Version	4
Issue Date	May 20, 2016
Prior Issue Date	May 3, 2015

Description of Revisions
Revised to meet Globally Harmonized System for chemical hazard communication requirements pursuant to OSHA regulatory revisions 77 FR 17884, March 26, 2012.

Abbreviations

°F	Degrees Fahrenheit (temperature)
<	Less than
=	Equal to
>	Greater than
AP	Approximately
C	Centigrade (temperature)
kg	Kilogram
L	Liter
mg	Milligrams
mL	Milliliter
mm^2	Square millimeters
mmHg	Millimeters of mercury (pressure)
N/A	Not applicable
N/D	Not determined
ppm	Parts per million
sec	Second
ug	Micrograms

Acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
AL	Action Level
ANSI	American National Standards Institute
API	American Petroleum Institute
CAS	Chemical Abstract Service
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
EC50	Ecological concentration 50%
EPA	U.S. Environmental Protection Agency
ERPG	Emergency Response Planning Guideline
GHS	Global Harmonized System
HMIS	Hazardous Materials Information System
IARC	International Agency for Research On Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
Koc	Soil Organic Carbon
LC50	Lethal concentration 50%
LD50	Lethal dose 50%
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health
NOIC	Notice of Intended Change

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NTP	National Toxicology Program
OPA	Oil Pollution Act of 1990
OSHA	U.S. Occupational Safety & Health Administration
PEL	Permissible Exposure Limit (OSHA)
RCRA	Resource Conservation and Recovery Act Reauthorization Act of 1986 Title III
REL	Recommended Exposure Limit (NIOSH)
RVP	Reid Vapor Pressure
SARA	Superfund Amendments and
SCBA	Self Contained Breathing Apparatus
SPCC	Spill Prevention, Control, and Countermeasures
STEL	Short Term Exposure Limit (generally 15 minutes)
TLV	Threshold Limit Value (ACGIH)
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hr.)
UN	United Nations
UNECE	United Nations Economic Commission for Europe
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Canadian Workplace Hazardous Materials Information System

Disclaimer of Expressed and Implied Warranties

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

** End of Safety Data Sheet **

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Message

Sent: 4/17/2019 6:54:56 PM
To: Brent Weber [bweber@iterm.com]
Subject: RE: Substance in ditch

-----Original Message-----
From: Brent Weber <bweber@iterm.com>
Sent: Wednesday, April 17, 2019 11:47 AM
To: spill12 <spill12@tceq.texas.gov>; Moore, Gary <Moore.Gary@epa.gov>; 'Helen Dubach' <hdubach@ctehrm.com>
Subject: RE: Substance in ditch

This ditch collects all water from Hwy 225 to Tidal road on both sides of the Independence Parkway. This water could be coming from anywhere.

-----Original Message-----
From: spill12 [mailto:spill12@tceq.texas.gov]
Sent: Wednesday, April 17, 2019 10:39 AM
To: Brent Weber; moore.gary@epa.gov; 'Helen Dubach'
Subject: FW: Substance in ditch

All,

If we could please get some information on what is currently showing up along the ditch on Tidal Road. Our team observed it yesterday and today and think maybe the cleaning materials that are being used are some how escaping the tank farm. You can see the white film along the concrete that has formed that hadn't been seen before.

Thanks,
Kendra Bernhagen

-----Original Message-----
From: Jeff Kunze
Sent: Wednesday, April 17, 2019 10:23 AM
To: spill12 <spill12@tceq.texas.gov>
Subject: Substance in ditch

Kendra:

It has dissipated some from the surface but you can see the accumulation of something on the edges of the ditch. Just wondering what it is. It was released yesterday.
Call if needed.
Thanks.
JK

Message

Sent: 4/17/2019 6:40:23 PM
To: Brent Weber [bweber@iterm.com]
Subject: RE: Substance in ditch

-----Original Message-----
From: Brent Weber <bweber@iterm.com>
Sent: Wednesday, April 17, 2019 11:47 AM
To: spill12 <spill12@tceq.texas.gov>; Moore, Gary <Moore.Gary@epa.gov>; 'Helen Dubach' <hdubach@ctehrm.com>
Subject: RE: Substance in ditch

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Kendra Bernhagen

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Subject: Substance in ditch

Kendra:

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Call if needed.
Thanks.
JK

Message

Sent: 4/17/2019 6:12:25 PM
To: Brent Weber [bweber@iterm.com]
Subject: RE: Substance in ditch

-----Original Message-----
From: Brent Weber <bweber@iterm.com>
Sent: Wednesday, April 17, 2019 11:47 AM
To: spill12 <spill12@tceq.texas.gov>; Moore, Gary <Moore.Gary@epa.gov>; 'Helen Dubach' <hdubach@ctehrm.com>
Subject: RE: Substance in ditch

This ditch collects all water from Hwy 225 to Tidal road on both sides of the Independence Parkway. This water could be coming from anywhere.

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Sent: Wednesday, April 17, 2019 10:39 AM
To: Brent Weber; moore.gary@epa.gov; 'Helen Dubach'
Subject: FW: Substance in ditch

All,

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Kendra Bernhagen

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Sent: Wednesday, April 17, 2019 10:23 AM
To: spill12 <spill12@tceq.texas.gov>
Subject: Substance in ditch

Kendra:

It has dissipated some from the surface but you can see the accumulation of something on the edges of the ditch. Just wondering what it is. It was released yesterday.
Call if needed.
Thanks.
JK

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/18/2019 11:57:50 PM
To: Spall, Amy [amy.spall@westonsolutions.com]
Subject: Fwd: 2nd 80s Fire Waste Management Plan - APPROVED signed
Attachments: Waste Management Plan APPROVED signed.pdf; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

> **From:** Helen Dubach <hdubach@ctehrm.com>
> **Date:** April 18, 2019 at 6:45:10 PM CDT
> **To:** spill12 <spill12@tceq.texas.gov>, "moore.gary@epa.gov" <moore.gary@epa.gov>, "Martin, Johnathan (PCS)" <Johnathan.Martin@pcs.hctx.net>
> **Subject: 2nd 80s Fire Waste Management Plan - APPROVED signed**
>
> Please find attached the approved Waste Management Plan for the 2nd 80s Fire. Attachments are too large to email, but are available on request.
>
> Cheers,
>
> **Helen Dubach**
> Senior Consultant and Manager, Readiness
> CTEH RM
> Mobile: 504-616-2427
> Emergency (24hr): 1-800-916-8233
> hdubach@ctehrm.com | www.ctehrm.com

2nd 80s Fire
Deer Park, Texas
Waste Management Plan
Version 1.0
Distribution Date: 04/17/2019

	Name, Position	Signature	Date
Approved By Incident Commander:	Brent Webb		4-10-19
Approved By FOSC:	Barry Marie		4/10/19
Approved By SOSC:	Kendra Barnhagn, SOSC	KBarnhagn	4/10/19

Table of Contents

Appendix A: Waste Handling and Interim Storage Plan

Appendix B: Waste Characterization and Disposal Plan

Appendix C: Attachments

Attachment A: General Incident Location

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Attachment C: Situation Maps

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Attachment E: Temporary Storage Units

Attachment F: Inspection Checklists

Attachment G: Shipping Papers

Attachment H: Referenced Documents and Guidance

WHIS Plan

- 49 CFR 172 Subpart D, E and F (not included) – Marking, Labeling, Placarding
- 29 CFR 1910.120 (not included) – HAZWOPER
- 30 TAC 335 Subchapter R
- 30 TAC 335 Subchapter Q – Pollution Prevention: Source Reduction and Waste Minimization
- 40 CFR 264 and 265 Subpart J (not included)
- 30 TAC 350 – Texas Risk Reduction Program (not included)
    - Groundwater PCL Table included
- 40 CFR 270.1(c)(3) – Purpose and Scope of These Regulations
- 30 TAC 335.41(d)(2) – Purpose, Scope, and Applicability
- 30 TAC 335.93(b) – Hazardous Waste Discharges
- 40 CFR 262.17(a) – Conditions for Exemption for a Large Quantity Generator
- 40 CFR 300.400(e) – Permit Requirements

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- 30 TAC 335.8 – Closure and Remediation
- 30 TAC 335.6 – Notification Requirements
- 30 TAC 335.69 – Accumulation Time
- 40 CFR 265.170-174 – Use and Management of Containers

WCD Plan

- Guidelines for the Classification and Coding of Industrial and Hazardous Waste
- USEPA 530-D-02-002 (not included)
- TCEQ QAPP (not included)
- 30 TAC 335.504 – Hazardous Waste Determination
- EPA SW-846 (not included)
- EPA QA/G-5S 2002 (not included)
- EPA QA/G-5S 2002, Page 170 – Definition of Representativeness
- EPA QA/G-5S 2002, Section 10-11, Pages 119-154 – Composite Sampling
- RCRA Waste Sampling Draft Technical Guidance 2002 (not included)
- RCRA Waste Sampling Draft Technical Guidance 2002 Section 5.3, Pages 64-73 – Composite Sampling
- RCRA Waste Sampling Draft Technical Guidance 2002 Appendix C – Strategies for Sampling Heterogeneous Wastes
- 30 TAC 335.24 – Requirements for Recyclable Materials and Nonhazardous Recyclable Materials
- RCRA Waste Sampling Draft Technical Guidance 2002 Section 7.2.8.1 – Sample Packaging and Shipping
- RCRA Waste Sampling Draft Technical Guidance 2002 Section 7.2.5 – Sample Identification and Chain-of-Custody Procedures
- 30 TAC 335.10 – Shipping and Reporting Procedures Applicable to Generator of Hazardous Waste or Class 1 Waste and Primary Exporters of Hazardous Waste
- 49 CFR 172 Subpart F – Placarding
- 49 CFR 172 Subpart D/E –Marking, Labeling
- 30 TAC Subchapter C – Standards Applicable to Generators or Hazardous Waste
- 40 CFR 265 Subpart E – Manifesting System, Recordkeeping, and Reporting

Preamble

This Waste Management Plan (WMP) is prepared by the Environmental Unit (EU) supporting the Unified Command (UC) at the request of the [Incident Commander, the FOSC and the State of Texas SOSC. In producing the WMP, the EU has considered and addressed input received from the TCEQ. This plan covers over-arching issues of oil recovery and waste management issues relating to the 2nd 80's Fire Incident at the Intercontinental Terminals Company LLC., Deer Park facility. The purpose of the WMP is to outline the procedures and protocols, referencing state and federal regulations, with respect to the management, including generation, transportation, storage, characterization, sampling, and disposal of recovered released materials and wastes generated in connection with the incident, including response activities.

The WMP includes two primary components, the Waste Handling and Interim Storage (WHIS) Plan and the Waste Characterization and Disposal (WCD) Plan. The WHIS Plan details the categories of wastes/materials covered by the WMP, where the wastes/materials were recovered or generated, the transportation and movement of the wastes/materials collected either on- or off-site, and the storage and handling of those materials during the emergency response phase. It also describes the inspection parameters and frequency, and includes specific documentation for materials collected offsite. Following emergency response, the WHIS component will be replaced by a Waste Handling and Storage Plan for any remaining wastes/materials related to the incident. The WCD Plan details the procedures to be used for classifying and characterizing all materials using TCEQ Guidance documents, sampling analysis protocols, and outlines the options for disposal or other management based on the results of the sample analysis and characterization. This plan will explore several options for how the waste/material could be classified, and how the classification will determine the number and frequency of required samples. The WCD Plan also contains details on the sampling procedures, referencing the SW-846 guidance documents and the QA/QC of the samples as included in the TCEQ QAPP. A discussion of the sampling and analytical parameters found in SW-846 is also included.

Any documents or procedures referenced in the above mentioned plans are included in the plan in the form of an attachment. Any SOPs from companies/contractors hired to perform activities governed by the plans will either be included as attachment to the plans or will be made available upon request. These may include, but are not limited to, NELAP Lab specific QA/QC procedures for instrument calibration, sampling and equipment decon procedures generated by the contractor conducting the sampling, and sample collection and handling procedures.

One foundational concept relating to the plan relates to whether and the extent to which any of the wastes/materials to be managed would fall under the definition of hazardous waste. The products contained in the tank farm where the incident occurred included two tanks with material that, if a waste, could be a listed waste:

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1) Tank 80-05 was in use for the storage of mixed xylenes, primarily composed of xylenes (CAS 1330-20-7). The facility historically has classified mixed xylene waste as a commercial chemical product, which is U239(I), and will continue to do so under the WMP. This listing for xylene is only for ignitability. If any waste generated from this event was impacted by the spilled xylene does not meet the definition of a characteristically ignitable waste, it would not be a listed waste and the U239(I) classification does not apply.

2) Tank 80-13 was in use for storage of toluene (a commercial chemical product). If the toluene were a commercial chemical product and a solid waste, it would be a listed U220 hazardous waste when disposed. However, post-incident visual observation of the tank system, including piping, indicates that it remained intact. ITC believes that there was no release from the tank or its associated piping in connection with the incident, and therefore, material from the toluene tank is not part of the recovered materials/waste related to the incident. Toluene may be detected in recovered materials/wastes related to the incident since toluene may be a constituent of products that were stored in tanks that were impacted by the incident (Pyrolysis Gas, Gasoline Blend Stock, Naphtha, and Xylenes). However the products contained in these tanks, if waste, do not carry the U220 listing classification.

   ITC shall classify, handle, and dispose of solid wastes in accordance with 30 Texas Administrative Code Chapter 335. In particular, any solid wastes that contact the contents of tank 80-13 or the tank system, which contained toluene, or the contents of any other tank or its system containing a product whose sole active ingredient appears on the RCRA "P" or "U" lists contained in 40 CFR 261.33 shall be classified, handled, and disposed according to the applicable requirements of 30 TAC Chapter 335.

No other ("P" or "U" code) hazardous waste listings are applicable to the wastes/materials addressed by the WMP.

In addition to potential classification of wastes as a "listed" hazardous waste, waste materials may also be identified as "characteristic" hazardous wastes. Analytical testing will be performed, as appropriate, to properly characterize wastes as a characteristic hazardous waste.

In addition to the WMP, there will be a separate Wastewater Management and Disposal Plan (WWMD) Plan prepared by the EU. The WMP and WWMD Plan shall be implemented in a coordinated manner, with wastes determinations and classifications as well as the disposition of any materials covered by the WWMD Plan that are not processed and discharged in the on-site wastewater treatment plant being handled in accordance with this WMP.

Appendix A
2nd 80s Fire
Deer Park, Texas
Waste Handling & Interim Storage Plan
Version 1.0

	Name, Position	Signature	Date
Approved By Incident Commander:	Brent Wesa		4/18/19
Approved By FOSC:	Gary Mure		4/18/19
Approved By SOSC:	Kendra Bernhagen SOSC	KBernhagen	4/18/19

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Waste Handling & Interim Storage Plan Management of Change

Change 001			
Description of Change (include sections & page numbers):			
	Name/Position	Signature	Date Signed
Prepared By:			
Approved By:			
Change 002			
Description of Change (include sections & page numbers):			
	Name/Position	Signature	Date Signed
Prepared By:			
Approved By:			
Change 003			
Description of Change (include sections & page numbers):			
	Name/Position	Signature	Date Signed
Prepared By:			
Approved By:			

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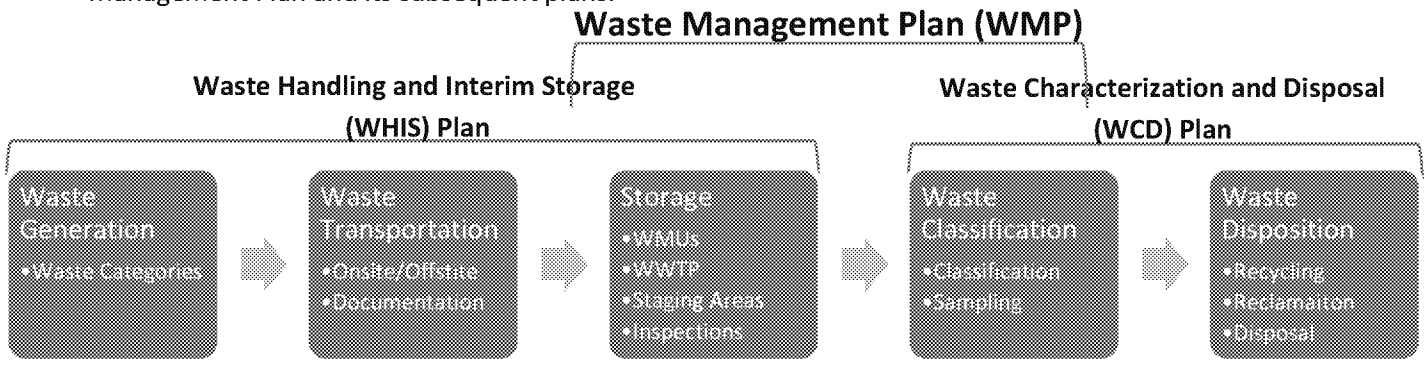
1.0 Introduction and Purpose

The Waste Handling & Interim Storage (WHIS) Plan was prepared by the Environmental Unit (EU), supporting Unified Command (UC) to provide a plan for the on-site management of waste during the Emergency Response (i.e., the immediate response activities) to the 2nd 80's Fire (see **Attachment A** for general location). This plan will include only that which is necessary for generation, collection, transportation, and storage of hazardous waste, nonhazardous waste, and reclaimable/recyclable released materials generated during the Emergency Response. Sampling analysis procedures and final disposition of the above-mentioned materials are covered in the Waste Characterization and Disposal Plan. Please reference the process flow diagram below for the general outline of the Waste Management Plan and its subsequent plans.



This WHIS Plan establishes and describes procedures and protocols to be followed by responders for all spill response materials, released, recovered, and generated. The plan provides for the management, transportation, and storage of the expected waste streams and categories that may be generated. Rules and regulations concerning packaging, labeling, marking, placarding, accumulation times, and record keeping will be followed per 49 CFR 172 Subpart D, E and F.

The collection, transportation, and storage of waste will be conducted in a manner that is both safe and protects human health and the environment, and complies with applicable laws and regulations. All references to specific regulations or other such supporting documentation can be found in **Attachment H**.

As used in the overall WMP, the terms "incident response" and "emergency response" refer to activities associated with the recovery of materials and do not include remediation activities.

2.0 Health and Safety

Health and safety of the associates, workers, community, and the environment will be of the utmost priority while implementing this plan. All personnel will be required to review and adhere to site specific safety plans as well as company/contractor-specific Health and Safety Plans (HASP), and 29 CFR 1910.120 HAZWOPER requirements, as applicable. Pre-job tailgate safety briefings will be conducted prior to going into the field where samples of waste and other materials will be collected and prepared.

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Specific field activities will only be conducted under weather or other environmental conditions that do not create unsafe working conditions and the appropriate personal protective equipment (PPE) will be utilized for each task, as identified in the ICS Form 214A and task specific ICS Form 204. Once generated, these forms will be added to **Attachment H** of the overall Waste Management Plan and will be available for viewing on site. Any incident will be promptly reported in accordance with the site-specific site safety plan and UC-objectives.

3.0 Waste Management Best Practices

The following best practices must be followed in the management of wastes generated in connection with the emergency response effort:

a. Dispose or manage wastes and recoverable materials in permitted or otherwise authorized locations. Unauthorized disposal or management will not be tolerated.
b. Obtain Safety Data Sheets (SDSs) for all known products and other incident derived materials (ex: fire-fighting foam) involved in waste management (the SDSs for the materials involved will be provided in **Attachment B**).
c. All materials and wastes (other than general trash or those previously characterized) generated during the response will be considered and stored, and managed as hazardous waste until such time that generator knowledge and/or analysis from sampling determines otherwise or, if applicable, it is determined that the released material is excluded from the definition of solid waste or hazardous waste under applicable regulations, per 30 TAC 335 Subchapter R
d. Generation of wastes will be reduced or eliminated wherever practical. This not only lowers the consumption of raw materials, it also eliminates the need for waste disposal. Source reduction and waste minimization are encouraged under 30 TAC 335 Subchapter Q. ITC will first and foremost meet response objectives under TCEQ and EPA rules and regulations.
e. Reuse, reclamation, or recycling of released materials will be performed in accordance with applicable regulations whenever practical. This not only lowers the consumption of raw materials, it also eliminates the need for waste disposal. Use or recycling of unused released materials will be the preferred option.
f. Prevent commingling wastes of different classifications, as appropriate. For example, prohibit placing non-hazardous wastes in the same container as hazardous waste. In addition, keep recyclable material separate from non-recyclable waste. It may be difficult or impossible to separate wastes after they have been commingled.
g. Maintain good housekeeping practices. Employees and contractors should maintain neat work areas, and clean-up areas to reduce need for additional clean-up of the associated materials or wastes.
h. Properly store recovered materials and wastes in designated areas, including RCRA and Department of Transportation (DOT) compliant storage of hazardous wastes, to inhibit and prevent releases to soil, water, or air, and to prevent consumption by wildlife. Upon confirmation of waste classification, the material will be appropriately managed and/or disposed.

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i. Incompatible materials will not be managed together.
j. Clearly identify and label the contents of containers of recovered materials and waste. Use a label or other means to clearly identify the contents of containers of hazardous, nonhazardous, inert wastes, and other recovered/reclaimed materials and identify the start date of accumulation. Once a tank or container that will be reused is empty, a new label or other documentation is to be used. Tanks and containers holding these materials will be cleaned and closed as described in 40 CFR 264 and 265 Subpart J.
k. Clean closure will be determined by removal and decontamination of all hazardous waste and hazardous waste residues within the tank and all ancillary equipment. Rinsate tests will be performed. A clean closure is determined when the rinsate meets 30 TAC 350 Texas Risk Reduction Program (TRRP) Standard A, Tier I Protective Concentration Levels (PCLs). An inspection must be performed by a Texas licensed Professional Engineer for the tank, ancillary equipment, and, if needed, secondary containment. The closure report must be submitted to the TCEQ Office of Waste: 12100 Park 35 Circle, Bldg. F, MC-130, P.O. Box 13087, Austin TX 78711-3087.
l. Document quantities and disposition of all recovered materials, including hazardous and non-hazardous wastes as instructed in this plan. Tracking is required for all recovered materials. Waste tracking is required for all wastes. This information will be included in the final report delivered at the conclusion of response activities.
m. Recovered liquids (recovered material, wastewater, sludge) should be collected and stored in as large a container as possible (UN approved drum, tote, tank, truck, barge, etc.) to maximize dewatering potential, facilitate uninterrupted recovery, and to minimize equipment decontamination requirements. To the extent possible, recovered materials shall be segregated so that like materials are stored together and not commingled with dissimilar materials.
n. Communicate your ideas to the Operations Section Chief for waste minimization management improvements as well as supervisors and fellow employees in different areas.
o. Maintain security at all locations where recovered materials or waste is being stored.
p. The Environmental Unit (EU) is responsible for determining whether any regulatory permits (e.g. National Pollution Discharge Elimination System (NPDES) or plans such as Storm Water Pollution Prevention Plan (SWP3) or Spill Prevention, Control, and Countermeasures (SPCC)) are required where waste is stored.
q. Compliance with state and federal RCRA rules for inspections, storage, and compliance will be strictly adhered to.

4.0 Generation

4.1 Potential Waste Categories

The potential streams will include, but are not limited to, the materials mentioned in the table below. Classifications will be made per 30 TAC 335 Subchapter R.

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Waste Stream	Sources	Materials Generated
Liquid Released Material	Skimming, vacuuming, water vessel decon, storm water, wash waters, wildlife washing and decon, sampling equipment decon	• Recovered or skimmed mixtures (diked area, Tucker Bayou, Ship Channel, Tanks) • Decon waters • Storm water potentially mixed with other released materials • Waste from wildlife operations
Solids (Non-Liquid)	Recovery and remediation operations, wildlife washing operations, WWTP	• Sediment, vegetation, woody material • Containers from wildlife decon operations • Carbon • Empty foam totes
Sorbents	Recovery operations and wildlife washing operations	• Contaminated sorbent materials • Sorbents from wildlife decon operations
PPE	Worker protection	• Outer garments
General Trash	Daily activities	• Food and beverage debris
Characteristic Materials	Solid or liquid material that has characteristic hazardous properties	• D001 water/foam mixture • D018 water/foam mixture • WWTP Sludge • Carbon
Listed Materials	Solid or liquid material that has been listed due to ignitability characteristic	• U239 water/foam mixture • Carbon
Biohazards	Wildlife care	• Sharps

5.0 Transportation

5.1 On-Site Materials

Liquid released materials will be collected using vacuum trucks where feasible, or pumped directly and transferred to on-site storage tanks 80-18, 80-33, 100-01, 100-15, 100-28, and 100-31, as well as 50-02, 60-01, and 80-34. Tanks that were not previously added have been included in the facilities Notice of Registration (NOR) as waste management units (WMUs) capable of storing waste/materials. The vacuum trucks will be visually and continuously monitored by the operator as released material is pumped into the tank. Great care will be taken while conducting connecting and disconnecting operations to prevent the release of material during such operations. Additionally, ancillary capabilities will be used as needed to deal with transferring liquids, vapors, and other potential issues.

5.2 Off-Site Materials

Materials collected outside the boundaries of the facility (for the purposes of this plan, referred to as "off-Site") will be managed under the provisions of 40 CFR 270.1(c)(3). These materials include, but are not limited to, boxes containing collected sorbents, vacuum trucks with liquid

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released materials, drums/totes with liquid materials, decon solids, and trash/refuse. The released liquid material is to be recovered at an off-Site location to be identified on the shipping papers, transported by vacuum truck directly to ITC or an approved barge docked on the north side of the channel, and offloaded into tanks designated to hold the material in question (either on-site waste management units or tanks barges) or to be held in one of the temporary staging areas designated in **Attachment D**. Solid materials (non-liquid materials) will be bagged and placed into lined roll-off boxes. These will be transported to ITC once the container is full. The container must have a proper and undamaged tarp to contain VOCs, and should be closed except to add or remove materials. Prior to being offloaded or staged, the transporter and a designated ITC representative will complete the "Emergency Response Shipping Paper"- which can be found in **Attachment G**. The materials will not be in possession or control of any party other than ITC prior to their return to the ITC site. The material will be assessed, and the required waste determination and classification made at the ITC site, in accordance with state and federal regulations, prior to disposal or recovery. Once the emergency response ends, the on-site management of any material that is, or potentially is, hazardous waste will occur in accordance with the permit exemption conditions set forth in 30 TAC 335.69 and/or 40 CFR 300.400(e).

6.0 Storage

6.1 Waste Management Units

Any on-site storage tank, excluding tanks that are part of the wastewater treatment system, that are used in this Emergency Response will follow the tank and ancillary equipment inspection and closure regulations set forth in 40 CFR Parts 264/5, Subpart J, 30 TAC 335.8 and 30 TAC 335.69. Once all released materials have been removed, the applicable tank closure guidelines will be followed and documented before the tank is allowed to reenter product storage service. The applicable tank closure guidelines can be found in **Attachment H**.

Liquid released materials that have been recovered will be managed as described in section 5.1.

6.2 Waste Water Treatment Plant

The on-site waste water treatment plant (WWTP) was shut down at the outset of the incident. Unless and until clearance from TCEQ and the FOSC is provided to restart the WWTP, no recovered released materials will be managed by the on-site WWTP. All liquids contained in the incident affected tank farm will be removed with a vacuum truck, or pumped directly, and transferred into 50-02, 60-01,80-34, 80-15, 80-33, 100-01, 100-15, 100-28, 100-31, or barges. Wastewater from these sources may be routed to the WWTP, and the WWTP may be used to store accumulated wastewater and related materials.

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Non-contact stormwater, which accumulates on-site from non-incident affected areas (i.e., outside of the tank farm), will be discharged through previously permitted facility outfalls. This includes all permitted outfalls at the facility, with the exception of 003.

Upon approval, additional correspondence from EPA for further requirements regarding the WWTP will be provided.

6.3 Staging Areas

Several staging areas for solid materials have been identified, and a complete list along with a map can be found in **Attachment D**. A copy of this plan will be available at each staging area.

Bagged Class 1 non-hazardous and hazardous waste must be segregated to prevent mixture and disposed of in separate roll off containers.

6.4 Staging Area Log Example

Date Onsite	Full Date	Date Offsite	Contractor	Type	Location	Container No.	Product	Notes/Comments
4/1/2019	4/3/2019		CIMA	RT	N. Rail Scale Rd	SLD25-1234	Sorbents/Solids	National Box, Shipping PPRs received

7.0 Material Management

For all released material that will be recycled, the responsible parties must provide notification pursuant to 30 TAC 335.6.

Description of Material	Waste Category	Method of Removal	Storage	Potential Disposal Locations *
Contaminated Water (removed from outfall 003, impacted tank farm, drains, wash waters, decon liquids, ditch, bayou, and various locations along the channel)	Class 1 or Hazardous Liquid Waste (classification TBD by waste determination)	Pump, Vacuum Truck, Drain, Other	50-02, 80-34, 60-01, 80-18, 80-33, 100-01, 100-15, 100-28, 100-31, barges, other portable containers (e.g. frac tanks, drums, totes)	Clean Harbors, TX Intergulf, TX Texas Molecular, TX US Ecology, TX Veolia, TX Other TBD Recovery: TBD and contingent on Final Characterization
Released Material (Previously Products Stored)	Product (recovery, reuse, recycle), Class 1 or Hazardous Liquid Waste (classification TBD by	Pump, Vacuum Truck, Drain, Other	50-02, 80-34, 60-01, 80-18, 80-33, 100-01, 100-15, 100-28, 100-31,	Clean Harbors, TX Intergulf, TX Texas Molecular, TX US Ecology, TX

	waste determination)		barges, other portable containers (e.g. frac tanks, drums, totes)	Other TBD Recovery, Recycle, Reuse, Reclamatin: TBD and contingent on Final Characterization
Uncontaminated General Trash	Non-hazardous Waste (Class 1)	Dumpsters and Roll Off Containers	Various Staged Locations	Waste Management (WM)
Solids/Debris/Sorbent Materials/ Spent Carbon/Miscellaneous Decon Materials	Class 1 or Hazardous Waste (classification TBD by waste determination)	Poly Lined Roll Off Containers	Various Staging Areas	HPP, TX (C1 only) Rineco, AR US Ecology, TX Republic, TX
PPE	Class 1 or Hazardous Waste (classification TBD by waste determination)	Poly Lined Roll Off Containers	Various Staging Areas	Waste Management, TX Rineco, AR
Other Materials Identified as Hazardous Waste (e.g. Wastewater Treatment Sludge)	Hazardous Solid Waste (classification TBD by waste determination)	Poly Lined Roll Off Containers/ Lined Dewatering Box	Various Staging Areas	Rineco, AR US Ecology, TX
Contaminated Water from Wildlife Rehabilitation and Decon Operations	Class 1 or Class 2 Waste (classification TBD by waste determination)	Totes/ 55 gal. Poly Drums	90 Day Drum Storage Area	Philips SteriCycle, TX
Solids Waste from Wildlife Operations	Class 1 or Class 2 Waste (classification TBD by waste determination)	55 gal. Poly Lined Metal Drums	90 Day Drum Storage Area	Philips SteriCycle, TX
Biohazards	Hazardous Waste	55 gal. Poly Drum	90 Day Drum Storage Area	TBD

* Final disposal locations will be provided when available.

8.0 Documentation and Storage Area Controls

The Hazardous Waste Operator or other environmental operator employed by ITC will be responsible for coordinating all daily waste stream activities. Coordination activities include, but are not limited to, the following:

- Perform special projects and other tasks requested by ITC.
- Continually analyze situations and make or recommend judgmental decisions to maintain Customer assets in the best safety, compliance and business position possible.
- In accordance with 40 CFR 265.170-174 and 30 TAC 335.69, perform daily inspections to ensure that all tank and containers are in good condition, boxes are not leaking, boxes are properly tarped and free of liquids that could cause delays or problems during shipment and notify the Environmental Supervisor and/or other persons/individuals listed in section 9.0 when containers need to be overpacked or the contents transferred to a more suitable container. Report any discrepancies. This process will be documented using the checklist provided in **Attachment F.**
- Inspect all containers and confirm labels are in place, complete, and correct prior to the loading of the transportation vehicle to ensure that the load(s) will be received at the disposal facility without discrepancy.

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- Continually look for ways to reduce the total waste stream.
- Assist with the identification, inventory, and proper storage of all waste materials at waste staging areas.

Daily verbal reports are to be provided for the following:

- Quantity of each category of waste generated for that operational period;
- Quantity of each category of waste stored on site; and
- Quantity of each category of waste transferred.

Waste at the consolidation sites will be controlled when entering and leaving the staging areas. The staging area log example can be found in section 6.4. This log is to be updated at least once daily and forwarded at the end of the week to the environmental team.

8.1 Records Management

Records management refers to the procedures for generating, controlling, and archiving project-specific records and records of field activities. Project records, particularly those that directly support current or ongoing technical studies and activities, provide historical evidence needed for later reviews and analyses, or are anticipated to be used as evidentiary data, will be legible, identifiable, retrievable, and protected against damage, deterioration, or loss on a centralized electronic database. Handwritten records will be written in indelible ink. Records will likely include, but are not limited to, the following: Ground field notebooks on pre-numbered pages, sample collection forms, personnel qualification and training forms, sample location maps, equipment maintenance and calibration forms, chain-of-custody (C-O-C) forms, maps and drawings, transportation and disposal documents, including waste manifests and bills of lading, reports issued as a result of the work, procedures used, correspondences, inspection reports, tracking logs, and any deviations from the procedural records. Documentation errors will be corrected by drawing a single line through the error, so it remains legible and will be initialed by the responsible individual, along with the date of change, and the correction will be written adjacent to the error.

All hazardous and Class 1 non-hazardous waste will be shipped on a hazardous waste manifest in compliance with the manifest requirements for such wastes set forth in 30 TAC 335.10. These waste manifests will be retained for at least 3 years or until enforcement orders are closed.

8.2 Inspection checklists for containers/tanks

All tanks that are storing released materials that are presumed or determined to be hazardous wastes must follow the inspection guidelines set forth in 40 CFR Parts 264and 40 CFR 265 Subpart J. All tanks must be inspected monthly in accordance with the ITC site SPCC and SWP3 plans, and a checklist for this plan can be found in **Attachment F**.

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Attachment F also contains the supporting checklist for the inspection of all small containers (totes, drums, pails, roll-off boxes, vac boxes, dewatering boxes, etc.) containing released materials that are or are presumed to be hazardous wastes. This inspection is to be done and documented daily by a member of the ITC environmental department.

9.0 Additional Assistance

If additional help or assistance is required, immediately contact the on-scene safety, Hector Cadena – Lead Safety, or environmental representative, Hunter Willis – Environmental Systems Supervisor, Mike Gaudet – Environmental Compliance Manager, or contact Carl Holley – VP of Safety Health Environmental and Safety, Regulatory Compliance, and Safety, or David Wascome – VP of Operations. Upon request and as necessary, 24-hour contact information will be available.

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Appendix B
2nd 80s Fire
Deer Park, Texas
Waste Characterization and Disposal Plan
Version 1.0

	Name, Position	Signature	Date
Approved By Incident Commander:	Brent Wesa		4-10-19
Approved By FOSC:	Gary Moore		4/10/19
Approved By SOSC:	Kendra Bernhagen, SOSC	KBernhagen	4/18/19

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1.0 Introduction and Purpose

On Sunday, March 17, 2019, a fire started at a tank farm located at the Intercontinental Terminals Company LLC (ITC) facility in Deer Park, TX (Site). During the subsequent fire suppression and response activities, water containing unused released material stored in the tanks and fire-fighting aqueous film forming foam (AFFF) was released into the environment.

This *Waste Characterization & Disposal (WCD) Plan* will address the protocol and procedures for characterization, sampling, and classification of recovered materials/wastes associated with the incident response activities, and options for disposal and/or, as appropriate, use or recycling of waste and/or materials related to the emergency response actions of this event. The WCD Plan will describe waste streams associated with the emergency response, currently known and unknown, and how the waste streams will be classified using the Waste Classification rules found in 30 Texas Administrative Code (TAC) Subchapter R and associated Texas Commission on Environmental Quality (TCEQ) guidance document RG-002 (rev.11/14) *Guidelines for the Classification and Coding of Industrial and Hazardous Wastes*. Individual waste determination forms will be completed with results from representative sampling performed in connection with waste determination and classification, to be attached, along with any documentation of relevant generator knowledge, the material Safety Data Sheets (SDSs), and any other documentation of generator knowledge. Waste characterization sampling will follow applicable and appropriate regulatory guidance (e.g., US Environmental Protection Agency (EPA) guidance 530-D-02-002, August 2002, and TCEQ document *Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) and Underground Injection Control (UIC) Programs, FY2019*) to determine the appropriate frequency of sampling in order to establish a statistically reliable quantitation and specific data quality criteria to demonstrate compliance with state and federal Resource Conservation and Recovery Act (RCRA) regulations, and other relevant waste or reclamation/recycling rules.

As used in this WCD Plan, the terms "incident response" and "emergency response" refer to activities associated with the recovery of materials and do not include remediation activities.

2.0 Health and Safety

Health and safety of the associates, workers, community, and the environment will be of the utmost priority while implementing this plan. All personnel will be required to review and adhere to site specific safety plans as well as company/contractor-specific Health and Safety Plans (HASP), and 29 CFR 1910.120 HAZWOPER requirements, as applicable. Pre-job tailgate safety briefings will be conducted prior to going into the field where samples of waste and other materials will be collected and prepared. Specific field activities will only be conducted under weather or other environmental conditions that do not create unsafe working conditions and the appropriate personal protective equipment (PPE) will be utilized for each task, as identified in the ICS Form 214A and task specific ICS Form 204. Once generated, these forms will be added to **Attachment H** of the overall Waste Management Plan and will be available for viewing on site. Any incident will be promptly reported in accordance with the site-specific site safety plan and UC-objectives.

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3.0 Waste Management Best Practices

The following best practices must be followed in the management of wastes and other materials generated in connection with the incident response effort:

a. Dispose or manage wastes and recoverable materials in permitted or otherwise authorized locations. Unauthorized disposal or management will not be tolerated.
b. Obtain Safety Data Sheets (SDSs) for all known materials and other incident derived materials (ex: fire-fighting foam) involved in waste management. The SDS's for the incident materials can be found in the Waste Handling and Interim Storage Plan. Any other SDSs used by contractors (e.g. detergents for decon) will be made available as needed.
c. All materials and wastes (other than general trash or those previously characterized) generated during the response will be considered and stored, and managed as hazardous waste until such time that generator knowledge and/or analysis from sampling determines otherwise or, if applicable, it is determined that the released material is excluded from the definition of solid waste or hazardous waste under applicable regulations, per 30 TAC 335 Subchapter R.
d. Generation of wastes will be reduced or eliminated wherever practical. This not only lowers the consumption of raw materials, it also eliminates the need for waste disposal. Source reduction and waste minimization are encouraged under 30 TAC 335 Subchapter Q. ITC will first and foremost meet response objectives under TCEQ and EPA rules and regulations.
e. Reuse, reclamation, or recycling of released materials will be performed in accordance with applicable regulations whenever practical. This not only lowers the consumption of raw materials, it also eliminates the need for waste disposal. Use or recycling of unused released materials will be the preferred option.
f. Prevent commingling wastes of different classifications, as appropriate. For example, prohibit placing non-hazardous wastes in the same container as hazardous waste. In addition, keep recyclable material separate from non-recyclable waste. It may be difficult or impossible to separate wastes after they have been commingled.
g. Maintain good housekeeping practices. Employees and contractors should maintain neat work areas, and clean-up areas to reduce need for additional clean-up of the associated materials or wastes.
h. Properly store recovered materials and wastes in designated areas, including RCRA and Department of Transportation (DOT) compliant storage of hazardous wastes, to inhibit and prevent releases to soil, water, or air, and to prevent consumption by wildlife. Upon confirmation of waste classification, the material will be appropriately managed and/or disposed.
i. Incompatible materials will not be managed together.
j. Clearly identify and label the contents of containers of recovered materials and waste. Use a label or other means to clearly identify the contents of containers of hazardous, nonhazardous, inert wastes, and other recovered/reclaimed materials and identify the start date of accumulation. Once a tank or container that will be reused is empty, a new label or other

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documentation is to be used. Tanks and containers holding these materials will be cleaned and closed as described in 40 CFR 264 and 265 Subpart J.

k. Clean closure will be determined by removal and decontamination of all hazardous waste and hazardous waste residues within the tank and all ancillary equipment. Rinsate tests will be performed. A clean closure is determined when the rinsate meets 30 TAC 350 Texas Risk Reduction Program (TRRP) Standard A, Tier I Protective Concentration Levels (PCLs). An inspection must be performed by a Texas licensed Professional Engineer for the tank, ancillary equipment, and, if needed, secondary containment. The closure report must be submitted to the TCEQ Office of Waste: 12100 Park 35 Circle, Bldg. F, MC-130, P.O. Box 13087, Austin TX 78711-3087.
l. Document quantities and disposition of all recovered materials, including hazardous and non-hazardous wastes as instructed in this plan. Tracking is required for all recovered materials. Waste tracking is required for all wastes. This information will be included in the final report delivered at the conclusion of response activities. The Staging Log referenced in section 6.4 of the Waste Handling and Interim Storage Plan in concurrence with the form referenced in section 7.3 of this plan will be used to provide necessary data for future mass balance reports.
m. Recovered liquids (recovered material, wastewater, sludge) should be collected and stored in as large a container as possible (UN approved drum, tote, tank, truck, barge, etc.) to maximize dewatering potential, facilitate uninterrupted recovery, and to minimize equipment decontamination requirements. To the extent possible, recovered materials shall be segregated so that like materials are stored together and not commingled with dissimilar materials.
n. Communicate your ideas to the Operations Section Chief for waste minimization management improvements as well as supervisors and fellow employees in different areas.
o. Maintain security at all locations where recovered materials or waste is being stored.
p. The Environmental Unit (EU) is responsible for determining whether any regulatory permits (e.g. National Pollution Discharge Elimination System (NPDES) or plans such as Storm Water Pollution Prevention Plan (SWP3) or Spill Prevention, Control, and Countermeasures (SPCC)) are required where waste is stored.
q. Compliance with state and federal RCRA rules for inspections, storage, and compliance will be strictly adhered to.

4.0 Waste Classification

Wastes (liquid and solid), except as noted in 3.0 (c) above, will be treated as hazardous waste until such a time that a complete waste characterization classification is performed per approved methods. The classification for all streams will be in accordance with applicable rules and regulations, including 30 TAC Subchapter R.

The contents of general trash containers will be classified as Class 1, unless free liquids or other potentially hazardous materials are observed. These materials include, but are not limited to, food waste, Styrofoam, cardboard, plastic, and aluminum foil. If these observations are made, the sampling protocol discussed in section 5.3 will be followed, and the sample will undergo TCLP sampling. No test

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for ignitability will be run as these wastes are non-liquid, do not meet the definition of an ignitable compressed gas or an oxidizer and, under standard temperature and pressure, would not be capable of causing fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, would not burn so vigorously and persistently that they create a hazard. Since the wastes are not characteristically ignitable, the U-listing for Xylene will not be applied.

Currently the estimated volumes of each waste stream and reclaimable/recyclable released materials are unknown due to the nature of the incident. Each stream will follow the TCEQ's Hazardous Waste Determination rules found in 30 TAC 335.504 using the Waste Classification Checklist found in TCEQ's *Guidelines for the Classification and Coding of Industrial and Hazardous Wastes* (pages 5-11). A copy of this guideline can be found in **ATTACHMENT H**. All non-hazardous waste classifications of materials associated directly with the response (other than for general trash) will be validated though the application of generator knowledge and sampling and analysis as necessary, per the procedure outlined below and in accordance with EPA SW-846. Hazardous waste classifications will be confirmed by a combination of generator knowledge and sampling after classification, and may be followed by periodic sampling in order to determine if a different classification applies. If any waste stream can be changed to a different waste classification, supported by the waste determination process, additional sampling may be required to maintain this classification.

5.0 Sampling and Characterization

5.1 Sampling Locations

This plan addresses sampling of only those materials generated during the incident response activities for purposes of waste classification and disposal. Sampling for any site investigation or final remediation/corrective action purposes after the incident response activities are completed will be addressed in greater detail during the remediation phase.

Emergency response activities generate waste materials from multiple locations (i.e., surface water clean-up, decontamination area, incident area, released materials collection, etc.) and the waste materials collected are brought to designated storage areas within ITC as noted in section 3 of this plan. Safety considerations for the emergency responders and samplers will be the top priority when conducting any sampling for waste classification purposes. Discussions with multiple emergency response leaders involved in this event indicate the best location to collect samples of recovered materials for waste classification purposes is from the storage containers located in the designated storage areas (i.e., tanks, roll-off boxes, vessels, etc...) and not from the actual emergency response cleanup activity location. Representative samples will be collected within a reasonable timeframe from arrival at the designated storage area. Attempts will be made to collect samples within 6-hours of receipt.

Sampling of contaminated and phase-separated aqueous liquids (wastewater and released materials) will occur directly from the storage containers (tanks, barges, etc.) containing the liquid released materials. Phase-separated released materials and wastewater will be separated

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and sampled/handled independently. Phase separated released materials will be sampled separately, when necessary, to characterize the material and evaluate options for use, reclamation, recycling, or waste disposition depending on the characteristics of the material and the availability of a commercial market for reclamation.

5.2 Sampling Methods

The document EPA QA/G-S5 2002 pg. 170 defines a representative sample as "a measure of the degree to which data accurately and precisely represent characteristics of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is also the correspondence between the analytical result and the actual environmental quality or condition experienced by a contaminant receptor." The document additionally identifies the appropriateness of compositing to obtain representativeness. The EPA document, EPA QA/GS5 2002, supports compositing sampling protocol.

Solid materials will be stored in roll-off containers. For each roll-off container containing homogenous/unpackaged materials (i.e., spent carbon and other solids but not sorbents, PPE, or debris), the container will have 10 aliquots collected (one from each corner and one from the middle) from 2 depths (6 inches below the top of the material and 2 feet below that). A Photoionization Detector (PID) will determine which sample contains the highest VOCs, and that area will be resampled and collected separately for the VOC analysis. The remaining 10 aliquots will be composited into one sample for the other analyses. Thus, each container will have 2 samples for analysis (VOC and composite). This field sampling and analysis method will be used for all determinations/verifications. This composite of 10 aliquots should exhibit the representative properties of the waste, while the grab VOC sample will allow for the highest potential VOC results. The procedures set forth in EPA QA/G-S5 2002, Section 10-11, pages 119-154, as well as in the RCRA Waste Sampling Draft Technical Guidance, August 2002, Section 5.3, pages 64-73 will be the guidance documents for establishing the sampling design. Storage of these materials will be conducted in such a way as to prohibit the loss of VOCs. Roll tops on all containers are to remain tightly closed unless adding, removing, or sampling materials.

Sampling of other solids (sorbents, PPE, debris) will be conducted by randomly selecting 5 bags and coring/cutting samples of the contents from each roll-off box. The five samples will be composited into one sample, and sent to a National Environmental Laboratory Accreditation Program (NELAP) certified lab for crushing and analysis. Strategies for sampling large heterogeneous waste are found in Appendix C of the *RCRA Waste Sampling Draft Technical Guidance, August 2002* document. Appendix C can be found in **Attachment H**.

For safety, containment, and storage purposes, liquid released materials will be moved to a designated storage area where they will be stored until they are processed in the on-site wastewater treatment system in accordance with the Wastewater Management and Disposal (WWMD) Plan or transported for reclamation, use, recycling, or disposal. Sampling of

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contaminated and phase-separated materials/wastewater will occur directly from the storage tanks containing the liquid released materials collected during the incident response activities. Liquid samples from the on-site tanks will be collected from a discharge valve at the bottom of the tank, or by lowering a sample collection device into the storage container. When sampling from the bottom, one sample will be collected and considered representative of the wastewater. When sampled from the top, if applicable, a minimum of three samples (lower, middle, upper) will be collected. Sampling of smaller portable containers (drums, totes, and frac tanks) will be done using a COLIWASA sampler, Drum Thief Sampler, or Pole Sampler. One sample will be collected from drums/totes, and 2 samples will be collected from frac tanks. Due to the nature of the event, and how the released materials were transferred into the tanks/containers, the resulting samples will have been thoroughly homogenized. These samples will be capped immediately after collection to prohibit the loss of VOCs, and the seals in the container lid will be inspected prior to sample collection. Storage of these materials in tanks will be managed in such a way as to prohibit the loss of VOCs. Tanks being sampled will only be opened to conduct sampling, or to strap the tank for gauging purposes.

Phase separated released material floating above the wastewater may be removed, placed in a tank or container and sampled separately, as appropriate, to characterize the material and evaluate options for use, reclamation, recycling, or waste disposal. Final disposition of the material will be dependent on the characteristics of the material and the availability of a commercial market for handling as a product or for use/recycling/reclamation. Generator knowledge may also be used in characterizing these materials. The method of recycling and viability of materials will be determined by the receiver of the material using samples provided by the generator for fingerprinting purposes. The regulations found in 30 TAC 335.24 will be followed for all recycling activities.

Liquid samples collected from water vessels, such as barges, will be done by opening the hatch of each tank and using a pole sampler or other sampling device to collect representative samples from at least three locations (lower, middle, top). These will also be evaluated for phase-separated materials, and if/when present, will be handled separately from the collected wastewater. The number of vessel tanks (therefore the number of samples) will vary by vessel. Due to the nature of the event, and how the released materials were transferred into the tanks, the resulting samples will have been thoroughly homogenized.

Sampling protocols and guidance found in EPA QA/G-S5 2002 and *RCRA Waste Sampling Draft Technical Guidance, August 2002* will be followed, and any company-specific SOPs and safety plans will be made available upon request.

5.3 Sample Handling Procedures

Company specific SOPs or Safety Plans of ITC's Contractors will be made available upon request once a contractor has been approved by ITC.

5.3.1 Sample Container Requirements

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Sample containers will follow the required guidelines set forth in SW-846. Required analyte-specific containers are discussed further in section 6.1. For composite solid samples, the preferred method of container should be glass with a PTFE lined cap. For the preservation of chemicals of concern (COCs), liquid samples should be collected in amber glass jars with similarly lined caps. Plastic/poly sample containers will be minimized due to the possibility of contamination. All samples are to be capped tightly immediately to prevent the loss of any VOCs. The label for the sample will be affixed and filled out prior to collecting the sample.

See section 6.1 for a table with more information on the containers required for each analyte.

5.3.2 Sample Storage Requirements

Samples will be preserved in a cooler at ≤4+/-2°C in a manner consistent with SW-846. The holding time will be determined by SW-846 and shall be consistent to each class of chemical with different holding times. Other specific preservation and storage requirements can be found in the tables in section 6.1. Once the samples are on ice, and the chain of custody is filled out, bagged, and taped to the inside lid of the cooler, custody seals shall be placed across the lid to ensure the samples are not tampered with before arrival at the lab for analysis. Sample packaging/storage requirements followed can be found in the *RCRA Waste Sampling Draft Technical Guidance* (EPA 530-D-02-002), section 7.2.8.1.

See section 6.1 for a table that includes holding times for particular analytes and preservation methods applicable to them.

5.3.3 Chain-of-Custody

To prohibit cross contamination, loss of sample, or transposition of samples from different locations, personnel who are handling samples should be kept to a minimum. Any change in custody outside of lab transportation/lab personnel should be documented at the bottom of the Chain-of-Custody (C-O-C) using the transfer of custody on the C-O-C form. Upon transfer of the collected sample materials to the lab representative, the C-O-C will need to be signed and relinquished. The time and date should be noted on the form, as well as signed by both the relinquished and the acceptor. Carbon copies should be kept by the relinquisher and a copy will be retained for up to 3 years. These procedures are in accordance with section 7.2.5 of the *RCRA Waste Sampling Draft Technical Guidance* (EPA 530-D-02-002).

5.4 Quality Assurance

Sampling will be carried out in a manner that is consistent with TCEQ QAPP requirements and SW-846 methods to ensure that samples are collected without the effects of accidental cross- or systematic contamination. Samples will be analyzed by a NELAP certified lab. To provide QA for

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the proposed sampling event, the following sampling, analysis, and data validation procedures will be performed:

5.4.1 Field Calibration

Electronic instruments used in the field as part of the waste characterization sampling events are anticipated to consist of PIDs, GPS units, digital cameras, and handheld data collection devices such as tablets/smart phones. PIDs will be calibrated daily. Non-electric equipment is not anticipated to require field calibration. Technicians utilizing each piece of equipment are responsible for maintaining (including proper battery charge) and operating this equipment such that it conforms to each respective manufacturer's specifications. Specific SOPs for the calibration will be requested from contractors conducting work, and will be added to this Plan as an attachment/addendum.

5.4.2 Field QA/QC Samples

Laboratory review quality assurance/quality control (QA/QC) sample data will be reviewed to validate the data collected as part of this assessment is usable for its intended purpose. Trip blanks will accompany all sample coolers from origination to laboratory delivery for analysis. Trip blanks will be analyzed on an as-needed basis, pending results of sample analyses. Field sample duplicates will be collected at a frequency of no less than 10%. Sample duplicate analyses will be compared to assess accuracy and precision of collection procedures and laboratory analysis.

5.4.3 Field Co-Located Samples

Field Co-Located Samples refer to samples collected by the regulatory agency or its designee from the same sampling location and independently submitted to a different laboratory for analysis. Co-located samples may be collected at the discretion of representatives of TCEQ or USEPA.

5.4.4 Laboratory QC

Laboratory quality control (QC) procedures will be conducted in a manner consistent with TCEQ QAPP requirements and SW-846 methods. Deliverables will contain the supporting documentation necessary for data validation. Internal laboratory QC will include method blanks, instrument blanks, matrix spikes (and matrix spike duplicates), surrogate samples, interference check samples, calibration standards, instrument tuning, and laboratory control samples (LCSs).

5.4.5 Matrix Spike/Matrix Spike Duplicate Sample

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Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples refer to field samples spiked with the analytes of interest prior to being analyzed at the laboratory to gauge the quality of analysis. Each lot of samples analyzed by a NELAP laboratory includes MS/MSD samples.

5.4.6 Data Validation

Validation of the data generated by the laboratory performing the analyses will include at a minimum sample holding times, accuracy, precision, contamination of field generated or laboratory method blanks, and surrogate compound recovery. Accuracy will be determined by evaluating LCS and MS recovery. Precision will be determined by evaluating laboratory duplicate samples, where two sub-samples are taken from a single, homogenous sample from the same container, and are taken through the same preparative and analytical procedures to evaluate analytical precision. Level II data validation will be performed on 100% of submitted samples. Level IV data validation may be performed on up to 10% of submitted samples. All supporting data will be included in the data report package, and copies of this package and all analytical information will be provided to TCEQ upon request.

5.5 Field Sampling Equipment Decontamination Procedures

Decontamination procedures refer to the steps undertaken to minimize the potential for off-site contamination and cross-contamination between individual sampling locations. Disposable equipment, where possible, will be used to deter potential cross contamination. Prior to collecting any sample for this investigation, the following decontamination procedures will be undertaken: non-disposable sampling equipment which come into contact with sampling media will be decontaminated using a bristled brush and a solution comprised of a laboratory grade, non-phosphate detergent (e.g., Alconox or Liquinox) and deionized water. Depending on ancillary activities being conducted for the response to this release, the decontamination of sampling equipment will be conducted over poly sheeting at the sample location or in a nearby designated area. The sampling equipment to be decontaminated will first be placed in a bucket containing the detergent solution and thoroughly washed using a bristled brush. The items will then be transferred to the second 5-gallon bucket containing deionized water for rinsing. Following the initial rinsing, the item will be held over the same bucket while distilled water is again carefully decanted over each item. Nitrile gloves will be worn by sampling personnel and changed between activities at each discrete sample collection location. Previously worn nitrile gloves will be discarded in appropriate waste receptacles with other PPE. Any specific SOPs used for decon of sample equipment on site will be provided by the contractor, and is to be added as an attachment to this Plan once the contractor is chosen, or will be made available upon request by TCEQ and other regulating agencies. All waste generated by decon activities will be handled, stored, classified, and disposed of by ITC in accordance with this Plan and the WHIS Plan.

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5.6 Waste Characterization

Waste characterization will be conducted according to 30 TAC 335 Subchapter R and following the checklist in TCEQs *Guidelines for the Classification and Coding of Industrial and Hazardous Wastes*.

6.0 Analysis of Samples

The results of the sample analysis will be used to determine the classification of the waste, as per 30 TAC 335 Subchapter R, and will be compared to appropriate Federal and State regulatory standards. These analyses will also be provided to Unified Command (UC) as well as TCEQ. All non-trash waste materials generated from this incident will be characterized as a Class I or Hazardous waste; therefore TPH is not included at this stage for characterization purposes.

Test methods found in SW-846 will be used to analyze waste samples collected for waste classification purposes. Section 6.1 and 6.2 provide a list of parameters and methods.

6.1 Liquid Material Sample Table

Liquid materials will be analyzed for the following:

Table 1: Sampling analysis methods, containers, and preservation times for various sampling analytes.

Analyte	EPA SW-846 Test Method	Sample Container	Preservative/Hold Time
TCLP-VOCs	Prep: None for Total VOC and 1311-ZHE for TCLP Analytical: 8260D	40-ml vials with PTFE-lined septum caps Amber glass w/PFT	≤6°C, pH to <2 w/H_2SO_4 or solid $NaHSO_4$/14 days
TCLP-SVOCs including PAHs	Prep: 3510C Analytical: 8270E or 8275A	Amber glass w/PFTE lined cap	7 days
TCLP Metals	Prep: 1311 and 3010A Analytical: 6020B or 7000B	PTFE, plastic, glass	HNO_3 to pH <2/6 months
Mercury	Prep: None Analytical: 7470A	PTFE, plastic, glass	HNO_3 to pH <2/28 days
Corrosivity	EPA Method 9040C	Glass w/PFTE lined cap	As soon as possible
Ignitibility	EPA Method 1010A	Glass w/PFTE lined cap	14 days

6.2 Solid Material Sample Table

Solid samples will be analyzed for the following:

Table 2: Sampling analysis methods, containers, and preservation times for various parameters.

Parameter	EPA SW-846 Test Method	Sample Container	Preservation/Hold Time
TCLP-VOCs	Prep: 1311-ZHE for TCLP, None for totals or 5030/50358260D Analytical: 8260D	Glass jars or 40-ml vials with PTFE-lined septum caps	Zero headspace method/ 14 days

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TCLP-SVOCs including PAHs	Prep: 1311-ZHE for TCLP, 3541 (Soxhlet extraction) Analytical: 8270E	Glass w/PFTE lined cap	≤6°C /Extracted in 7 days, analyzed w/in 40 days.
TCLP Extracts	Prep 1311	PTFE, plastic, glass	None/14 days
Metals	Prep: 3010A/3050B Analytical: 6020B, 6010D, 7000B	PFTE, plastic, glass	≤6°C/180days
Mercury	Prep: None Analytical: 74701B	PFTE, plastic, glass	≤6°C/28 days
Corrosivity	EPA Method 9045D	Glass w/PFTE lined cap	As soon as possible
Ignitibility	EPA Method 1030	Glass w/PFTE lined cap	28 days

7.0 Final Disposition

Disposal, reclamation, and recycling facilities will vary based on the final classification and characterization of the recovered materials/wastes. The facilities mentioned in the table below do not include those facilities that could potentially accept reclaimed, reused, or recyclable released materials.

All hazardous and Class 1 waste will be shipped on a hazardous waste manifest in compliance with 30 TAC 335.10. These waste manifests will be retained for at least 3 years. Bills of lading (BOL) and other shipping papers for this event will also be required to be retained for at least 3 years along with the final copies of the waste disposal log, container activity log , and any other pertinent documentation related to the classification, characterization, storage, transportation, and disposal of all event related materials. These documents will be available in both hardcopy and electronic format.

7.1 Waste Management Table

The table below is also found in section 7 of the WHIS Plan. For all released material that will be recycled, the responsible parties must provide notification pursuant to 30 TAC 335.6.

Description of Material	Waste Category	Method of Removal	Storage	Potential Disposal Locations*
Contaminated Water (removed from outfall 003, impacted tank farm, drains, wash waters, decon liquids, ditch, bayou, and various locations along the channel)	Class 1 or Hazardous Liquid Waste (classification TBD by waste determination)	Pump, Vacuum Truck, Drain, Other	50-02, 8-34, 60-01, 80-18, 80-33, 100-01, 100-15, 100-28, 100-31, barges, other portable containers (e.g. frac tanks, drums, totes)	Clean Harbors, TX Intergulf, TX Texas Molecular, TX US Ecology, TX Veolia, TX Other TBD Recovery: TBD and contingent on Final Characterization
Released Material (Previously Products	Product (recovery, reuse, recycle), Class 1 or	Pump, Vacuum Truck, Drain, Other	50-02, 80-34, 60-01, 80-18, 80-33,	Clean Harbors, TX Intergulf, TX

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Stored)	Hazardous Liquid Waste (classification TBD by waste determination)		100-01, 100-15, 100-28, 100-31, barges, other portable containers (e.g. frac tanks, drums, totes)	Texas Molecular, TX US Ecology, TX Other TBD Recovery, Recycle, Reuse, Reclamatin: TBD and contingent on Final Characterization
Uncontaminated General Trash	Non-hazardous Waste (Class 1)	Dumpsters and Roll Off Containers	Various Staged Locations	Waste Management (WM)
Solids/Debris/Sorbent Materials/ Spent Carbon/Miscellaneous Decon Materials	Class 1 or Hazardous Waste (classification TBD by waste determination)	Poly Lined Roll Off Containers	Various Staging Areas	HPP, TX (C1 only) Rineco, AR US Ecology, TX Republic, TX
PPE	Class 1 or Hazardous Waste (classification TBD by waste determination)	Poly Lined Roll Off Containers	Various Staging Areas	Waste Management, TX Rineco, AR
Other Materials Identified as Hazardous Waste (e.g. Wastewater Treatment Sludge)	Hazardous Solid Waste (classification TBD by waste determination)	Poly Lined Roll Off Containers/ Lined Dewatering Box	Various Staging Areas	Rineco, AR US Ecology, TX
Contaminated Water from Wildlife Rehabilitation and Decon Operations	Class 1 or Class 2 Waste (classification TBD by waste determination)	Totes/ 55 gal. Poly Drums	90 Day Drum Storage Area	Philips SteriCycle, TX
Solids Waste from Wildlife Operations	Class 1 or Class 2 Waste (classification TBD by waste determination)	55 gal. Poly Lined Metal Drums	90 Day Drum Storage Area	Philips SteriCycle, TX
Biohazards	Hazardous Waste	55 gal. Poly Drum	90 Day Drum Storage Area	TBD

* Final disposal locations will be provided when available.

7.2 Transportation

Several modes of transportation will be utilized in order to dispose/recycle the waste or materials generated from the incident. All roll off boxes will be loaded onto trucks that will haul to a final destination. Hazardous waste bulk containers will be properly placarded per 49 CFR 172 Subpart F prior to being loaded, and the roll tarp will be checked for any damage, gaps, or loose straps to prevent releases. Quantity will be recorded in yards, and weights (in pounds or tons) will be added in once the container is received at the disposal facility. Vacuum and tanker trucks will be scaled in at the ITC traffic building prior to loading, and scaled out before leaving the facility to ensure the trailer is road compliant. This weight ticket will be saved with the manifest/BOL/shipping paper for recordkeeping. The trailers will be properly placarded prior to leaving the ITC facility. Other bulk and non-bulk containers (drums/totes) will be stored and managed in the onsite 90 day drum storage area (as space allows). They will be properly marked and labeled per 49 CFR 172 Subpart D/E prior to transportation. These will be loaded into a cargo truck with a forklift, which will be placarded prior to leaving the ITC facility, and be shipped to their final destination based on their hazard class. Transportation routes and times

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will be carefully considered as a way of minimizing the potential exposure of the materials to the community and the environment.

7.3 Waste Disposal Log

Below is a sample of the log that will be used to track the transportation and disposal of all hazardous, nonhazardous, and reclaimed/recycled materials. This log is to be updated at least once daily, or as long as the material is being sent for disposal/reclamation. If anything is sent out on a BOL or similar shipping paper, it must be specified in the 'Manifest #' section by first using the letters BOL followed by the BOL number. For identifying excluded or exempt material in the Waste Code column, Exc will indicate excluded materials, and Exp will indicate exempt materials.

Date	Manifest #	Transporter	EPA ID	Class	Designated Facility	EPA/SWT	Waste Code	PUKFD Codes	Waste Description	QTY	UOM	Management Codes	Return Date	Box #	Container Type
3/5/2019	01258841 JJK	Cima	54321	H	Clean Harbors	67891	**0123999H**	D001	UN3077, Hazardous Waste Solid, n.o.s.	3000	P	H040		30-20	1 CM
4/2/2019	BOL 05672	Cameron	12345	NH	Cameron Recycling	56789	**Exc**	NA	Scrap Metal	25	Y	NA	NA	3095	1 CM

7.4 Receiving Facilities

The table in section 7.1 of this plan is to outline potential facilities where the recovered released material can be manifested or, if applicable, sent via bills of lading (BOLs), and should not be considered a complete list. Upon sampling and acceptance of the material a final list will be added as an addendum to this plan. This list will include pertinent information necessary to satisfy the "Cradle to Grave" tracking and management and will include documentation including, but not limited to, Certificate of Disposal (or similar), copies of the returned waste manifest/BOL/other shipping papers, and the facility's Certificate of Insurance. If the facility had not been audited by, or under the advisement of, ITC prior to the receipt of materials, an audit will be scheduled for after the end of the incident when response phase of the incident is complete. This audit will consist of a review of safety records, environmental records, violations, permits, process equipment and an in depth analysis of how materials specific to ITC are to be managed. Once the documents from the audit are collected, they will be made available upon request for up to 5 years or until 2 subsequent audits have been completed.

8.0 Records Management

Records management refers to the procedures for generating, controlling, and archiving project-specific records and records of field activities. Project records, particularly those that are anticipated to be used for regulatory compliance or as evidentiary data, directly support current or ongoing technical studies and activities, and provide historical evidence needed for later reviews and analyses, will be legible,

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identifiable, retrievable, and protected against damage, deterioration, or loss on a centralized electronic database. Handwritten records will be written in indelible ink. Records will likely include, but are not limited to, the following:

Ground field notebooks on pre-numbered pages, sample collection forms, personnel qualification and training forms, sample location maps, equipment maintenance and calibration forms, chain of custody forms, maps and drawings, transportation and disposal documents, including waste manifests and bills of lading), reports issued as a result of the work, procedures used, correspondences, and any deviations from the procedural records. Documentation errors will be corrected by drawing a single line through the error, so it remains legible and will be initialed by the responsible individual, along with the date of change, and the correction will be written adjacent to the error. These records will be in accordance with 30 TAC 335 Subchapter C and 40 CFR 265 Subpart E, and all other applicable State and Federal regulations for land disposal restrictions.

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April 18, 2019

VIA HAND DELIVERY
Mr. Adam Adams
OSC
U.S. Environmental Protection Agency
1943 Independence Parkway
La Porte, TX 77571

Re: U.S. Environmental Protection Agency Region 6 Federal On-Scene Coordinator Authorization of Discharge issued to Intercontinental Terminals Company LLC (ITC) dated April 17, 2019 ("Discharge Authorization")

Dear Mr. Adams:

ITC acknowledges receipt of the above-referenced Discharge Authorizations and by this letter is requesting confirmation of the following with respect to condition 3 of the Discharge Authorization:

1. The condition refers to the incident wastewater as it was being placed in the wastewater treatment system storage tanks and ignores the pre-incident wastewater present in the tanks before the incident wastewater was added. It is likely that small volumes of products including toluene and xylene were present in that pre-incident wastewater in tank 80-34. The fact that the incident wastewater in tank 80-34 has mixed with pre-incident wastewater will not be considered a violation of condition 3.

2. The incident wastewater came into contact with product that was in Tank 80-5, which contained xylene, also known as mixed xylenes. The safety data sheet for the product indicates that the product is 81-85% xylene by weight. ITC has managed and intends to continue to manage mixed xylenes, when it is an off-spec commercial chemical product and a waste, as a U239 hazardous waste. The U239 waste listing is for ignitability only, therefore wastewater that is not ignitable will not carry the U239 listing. The fact that the incident wastewater in tank 80-34 may have contacted mixed xylenes will not be considered a violation of condition 3.

Please sign below or by a separate written document to confirm EPA's agreement with the above.

Sincerely,

CONFIRMED April ___, 2019:

By: _____
Name/Title: _____

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/18/2019 9:20:12 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]
Subject: Fwd: 2nd 80s Fire Vac Truck Decon Plan for review
Attachments: Vac Truck Decon Plan 04.18.2019.pdf; ATT00001.htm

Please review

Sent from my iPhone

Begin forwarded message:

> **From:** "Moore, Gary" <Moore.Gary@epa.gov>
> **Date:** April 18, 2019 at 3:51:26 PM CDT
> **To:** "Smalley, Bryant" <smalley.bryant@epa.gov>
> **Cc:** "Adams, Adam" <Adams.Adam@epa.gov>
> **Subject: Fwd: 2nd 80s Fire Vac Truck Decon Plan for review**
>
> Bryant,
>
> Could you have someone review this. I have reviewed and have no comments. Need turnaround by tomorrow.
>
> Thanks
> Gary Moore
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** Helen Dubach <hdubach@ctehrm.com>
> > **Date:** April 18, 2019 at 3:40:57 PM CDT
> > **To:** spill12 <spill12@tceq.texas.gov>, "moore.gary@epa.gov" <moore.gary@epa.gov>
> > **Cc:** "bob.patton@tceq.texas.gov" <bob.patton@tceq.texas.gov>, Karrah Shremshock <KShremshock@iterm.com>
> > **Subject: 2nd 80s Fire Vac Truck Decon Plan for review**
> >
> > Please find attached the draft Vac Truck Decon Plan for review. Hopefully we can keep the momentum going with the plan reviews and discuss tomorrow morning!
> >
> > Thank you for all of your time and efforts over the past couple of days.
> >
> > Cheers,
> >
> > **Helen Dubach**
> > Senior Consultant and Manager, Readiness
> > CTEH RM
> > Mobile: 504-616-2427
> > Emergency (24hr): 1-800-916-8233

hdubach@ctehrm.com | www.ctehrm.com

Message

From: Moore.Gary@epa.gov [Moore.Gary@epa.gov]
Sent: 4/18/2019 8:51:19 PM
To: Smalley, Bryant [smalley.bryant@epa.gov]
CC: Adams, Adam [Adams.Adam@epa.gov]
Subject: Fwd: 2nd 80s Fire Vac Truck Decon Plan for review
Attachments: Vac Truck Decon Plan 04.18.2019.pdf; ATT00001.htm

Bryant,

Could you have someone review this. I have reviewed and have no comments. Need turnaround by tomorrow.

Thanks
Gary Moore

Sent from my iPhone

Begin forwarded message:

> **From:** Helen Dubach <hdubach@ctehrm.com>
> **Date:** April 18, 2019 at 3:40:57 PM CDT
> **To:** spill12 <spill12@tceq.texas.gov>, "moore.gary@epa.gov" <moore.gary@epa.gov>
> **Cc:** "bob.patton@tceq.texas.gov" <bob.patton@tceq.texas.gov>, Karrah Shremshock <KShremshock@iterm.com>
> **Subject: 2nd 80s Fire Vac Truck Decon Plan for review**
>
> Please find attached the draft Vac Truck Decon Plan for review. Hopefully we can keep the momentum going with the plan reviews and discuss tomorrow morning!
>
> Thank you for all of your time and efforts over the past couple of days.
>
> Cheers,
>
> **Helen Dubach**
> Senior Consultant and Manager, Readiness
> CTEH RM
> Mobile: 504-616-2427
> Emergency (24hr): 1-800-916-8233
> hdubach@ctehrm.com | www.ctehrm.com

Message

From: /O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 7:59:48 PM
To: jjacobson@iterm.com
Subject: Tank Update
Attachments: Tank Update 4-18-19.pdf

Hey Jake,

Is there a way to say that no additional materials can be removed until tank is demolished and an anticipated date that will happen along with what emissions will are expected from the remaining material in the tank or say that degassing will continue until tank is demolished.

Basically, we are trying to get an idea of when the plan is to demolish and remove the remaining materials for our planning purposes.

Thanks

Gary W. Moore (6SF-ER)
Federal On-Scene Coordinator
U.S EPA Region 6
1445 Ross Ave, Suite 1200
Dallas, TX 75202-2733
Cell: 214.789.1627
moore.gary@epa.gov

Tank Storage Status

Version Date: 4/18/2019 7:10

Table 1: Response Tanks Storing Collected Response Liquids

Tank #	Material Stored	Tank Max Capacity (bbls)	Current Level - Total (bbls)	Water Level (bbls)	Organic Total (bbls)	Comment/Activity
80-18	Firefighting Water/Organics	71,508	69,075	25,121	43,954	No Activity
80-33	Firefighting Water/Organics	72,528	52,812	20,295	32,517	Active via Vacuum Trucks
100-28	Firefighting Water/Organics	100,297	92,406	51,059	41,347	Active via Vacuum Trucks
100-31	Firefighting Water/Organics	100,255	99,923	90,401	9,522	No Activity
100-15	Firefighting Water/Organics	100,256	11,253	1,432	9,821	Receiving Tank Farm
100-1	Firefighting Water/Organics	100,074	96,342	86,433	9,909	No Activity
		544,918	421,811	274,741	147,070	
	Available Storage	**123,107**				

Table 2: ITC Wastewater System Tanks

Tank #	Material Stored	Tank Max Capacity (bbls)	Current Level - Total (bbls)	Water Level (bbls)	Organic Total (bbls)	Comment/Activity
50-2	Prior Wastewater/Firefighting Water/Organics	52,084	50,878	50,688	190	
80-34	Prior Wastewater/Firefighting Water/Organics	80,287	62,665	57,275	5,390	
60-1	Prior Wastewater/Firefighting Water/Organics	54,384	50,631	44,272	6,359	
		186,755	164,174	152,235	11,939	

Table 3: Temporary Storage Vessels Loaded

Barge	Prior Wastewater/Firefighting Water/Organics	57,000	49,157	49,157		

Table 2: Impacted Tank Farm Information

Tank #	Material Stored Prior to Event	Safe Operating Capacity (bbls)	Current Level - Total (bbls)	Quantity Prior To Event (bbls)	Comment/Activity	Physical Status Of The Tank
80-1	Base Oil	72,978	0	49,760	Clean and Complete	Tank erect, charred, damage to roof
80-2	Gas Blendstock	74,189	0	42,260	Complete - No More Action Possible Until Released	Collapsed
80-3	Gas Blendstock	69,679	0	33,410	Complete - No More Action Possible Until Released	Tank erect, charred, but heavilty damaged
80-4	Base Oil	74,497	0	35,699	Clean and Complete	Tank erect, charred, damage to roof
80-5	Xylene	72,859	Sludge	38,426	Complete - No More Action Possible Until Released	Collapsed
80-6	Gas Blendstock	74,789	0	49,414	Complete - No More Action Possible Until Released	Collapsed
80-7	Pygas	75,373	Sludge	43,595	Complete - No More Action Possible Until Released - Degassing	Half of the tank standing, roof collapsed
80-8	Naphtha	73,960	Minimal	70,761	Product Removal Complete - Ready For Cleaning	Collapsed
80-9	EMPTY	76,521	0	Empty	Clean and Complete	Collapsed
80-10	Pygas	74,767	Sludge	14,382	Cleaning In Progress; Degassing	Erect, fixed roof in tact
80-11	Base Oil	76,208	0	52,902	Clean and Complete	Erect, charred, and damage to roof
80-12	EMPTY	76,502	0	Empty	Clean and Complete	Partially Collapsed
80-13	Toluene	70,523	0	14,725	Clean and Complete	Erect, fixed roof in tact
80-14	Pygas	72,965	Sludge	15,840	Cleaning In Progress; Degassing	Collapsed
80-15	Pygas	74,692	Sludge	9,421	Complete - No More Action Possible Until Released - Degassing	Collapsed
		1,110,502	0	470,595		

Product removal complete - ready to clean

Cleaning in Progress

Complete - No Further Action Can Be Done Until Demo

Clean and Complete

Note: 7, 10, 14, 15 will remaing degassing despite being "no further action"

No more action possible = no more options available to further clean until tank demo begins

Message

From: Tighe, Daniel [Daniel.Tighe@WestonSolutions.com]
Sent: 4/12/2019 10:28:16 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: FW: Period 14 IAP - Approved
Attachments: Period 14 IAP.pdf; ATT00001.htm

C. Daniel Tighe, PMP
Weston Solutions, Inc.
713.397.1550 – Cell
713.985.6643 – Office

From: Adams, Adam [mailto:Adams.Adam@epa.gov]
Sent: Thursday, April 11, 2019 6:02 AM
To: Tighe, Daniel <Daniel.Tighe@WestonSolutions.com>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Subject: Fwd: Period 14 IAP - Approved

**** External Email ****
For the file and REOC

Sent from my iPhone

Begin forwarded message:

> **From:** "David Hill" <dhill@responsegroupinc.com>
> **To:** "alex.nunez@tpwd.texas.gov" <alex.nunez@tpwd.texas.gov>, "spill12@tceq.texas.gov" <spill12@tceq.texas.gov>, "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, "Paige.Doelling@noaa.gov" <Paige.Doelling@noaa.gov>, "hdubach@ctehrm.com" <hdubach@ctehrm.com>, "cholley@iterm.com" <cholley@iterm.com>, "bweber@iterm.com" <bweber@iterm.com>, "david.wade@oem.hctx.net" <david.wade@oem.hctx.net>, "dwascome@iterm.com" <dwascome@iterm.com>, "bnetland@iterm.com" <bnetland@iterm.com>, "Nicole.d.rodriguez@uscg.mil" <Nicole.d.rodriguez@uscg.mil>, "Adams, Adam" <Adams.Adam@epa.gov>, "Jessica.l.wissmann@uscg.mil" <Jessica.l.wissmann@uscg.mil>, "Michael Honeycutt" <Michael.honeycutt@tceq.texas.gov>, "Brandy.Brooks@tceq.texas.gov" <Brandy.Brooks@tceq.texas.gov>, "Richard Chism" <Richard.Chism@tceq.texas.gov>, "Sabine.Lange@tceq.texas.gov" <Sabine.Lange@tceq.texas.gov>, "Jonathan.walling@tceq.texas.gov" <Jonathan.walling@tceq.texas.gov>, "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "Cynthia Gandee" <cynthia.gandee@tceq.texas.gov>, "Andy.goodridge@tceq.texas.gov" <Andy.goodridge@tceq.texas.gov>, "susan.johnson@tceq.texas.gov" <susan.johnson@tceq.texas.gov>, "anthony.buck@tceq.texas.gov" <anthony.buck@tceq.texas.gov>, "abel.garcia@tceq.texas.gov" <abel.garcia@tceq.texas.gov>, "terry.sullivan@tceq.texas.gov" <terry.sullivan@tceq.texas.gov>, "christopher.wiatrek@tceq.texas.gov" <christopher.wiatrek@tceq.texas.gov>, "jack.lunday@tceq.texas.gov" <jack.lunday@tceq.texas.gov>, "jeff.kunze@tceq.texas.gov" <jeff.kunze@tceq.texas.gov>, "Ramiro.Garcia@tceq.texas.gov" <Ramiro.Garcia@tceq.texas.gov>, "mescoto@iterm.com" <mescoto@iterm.com>, "richard.lawhorn@fmo.hctx.net" <richard.lawhorn@fmo.hctx.net>, "peter.marsey@cardno.com" <peter.marsey@cardno.com>, "caren.C.Damon@uscg.mil" <caren.C.Damon@uscg.mil>, "joel.s.ferguson@uscg.mil"

<joel.s.ferguson@uscg.mil>, "cameron.dews@pcs.hctx.net" <cameron.dews@pcs.hctx.net>, "anthony.buck@tceq.texas.gov" <anthony.buck@tceq.texas.gov>, "Spall, Amy" <amy.spall@westonsolutions.com>, "CGITCResponse@gmail.com" <CGITCResponse@gmail.com>, "publicaffairshouston@uscg.mil" <publicaffairshouston@uscg.mil>, "trodriguez@nrcc.com" <trodriguez@nrcc.com>, "Adriana.leiva@tpwd.texas.gov" <Adriana.leiva@tpwd.texas.gov>, "Liana.lerma@tpwd.texas.gov" <Liana.lerma@tpwd.texas.gov>, "Rodney.Reed@fmo.hctx.net" <Rodney.Reed@fmo.hctx.net>, "jroberts@poha.com" <jroberts@poha.com>, "Moore, Gary" <Moore.Gary@epa.gov>, "mgaudet@iterm.com" <mgaudet@iterm.com>, "Jennifer.Bronson-Warren_tpwd.texas.gov" <Jennifer.Bronson-Warren@tpwd.texas.gov>, "llong@cteh.com" <llong@cteh.com>, "Scott.Janoe@BakerBotts.com" <Scott.Janoe@BakerBotts.com>, "Craig.j.groman@uscg.mil" <Craig.j.groman@uscg.mil>, "Mike Iacoboni" <miacoboni@responsegroupinc.com>
Subject: Period 14 IAP - Approved

Thank you,

David Hill

Office: 281-880-5000
Mobile: 832-493-3154
Fax: 281-880-5005
Web: ***www.responsegroupinc.com***

"IAP Software - Developed for Responders by Responders"

WARNING: External Email: This email originated outside of Weston Solutions. DO NOT CLICK on any links or attachments unless you recognize the sender and are expecting the email.
CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Contact

Full Name: Alice Richardson

E-mail: ARICHARDSON@iterm.com

Contact

Full Name: Karrah Shremshock

E-mail: KShremshock@iterm.com

Contact

Full Name: MGaudet@iterm.com

E-mail: MGaudet@iterm.com

Contact

Full Name: Reid McLelland

E-mail: RMcLelland@iterm.com

Contact

Full Name: bweber@iterm.com

E-mail: bweber@iterm.com

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Contact

Full Name: Jeff Jacobson

E-mail: jjacobson@iterm.com

Contact

Full Name: bweber@iterm.com

E-mail: bweber@iterm.com

Contact

Full Name: 'Mike Gaudet'

E-mail: MGaudet@iterm.com

Contact

Full Name: 'mgauget@iterm.com'

E-mail: mgauget@iterm.com

Message

Sent: 4/11/2019 8:20:23 PM
To: hdubach@ctehrm.com
Subject: ITC Response: Equipment Decontamination and Demobilization Plan

Helen:

These are the comments that EPA received from TCEQ:

Review of the updated *Fire Equipment Decon plan* included the following:

Remove the term 'product'. As noted in the SCAT plan review comments and other plans reviewed and commented on to date, the plan is using the word "product" to describe liquid incident materials, and consistency is needed in referencing these materials throughout the plans. Please review all plans to ensure the word "oil" is not used solely to describe the material being addressed with this response. At a minimum, plans and documents should be referencing it as "material", "recovered material, "chemical mixture" or "waste".

As previously requested in this plan and other plans, do not refer to the released mixture as 'product'.

General:

- The plan references an approved 'Waste Management Plan' in various locations. Note that a 'Waste Management Plan' has not yet been approved.
- In various locations, the plan refers to a "mutually agreed condition of cleanliness". Please revise the plan define the minimum standard of cleanliness. At a minimum, all waste and waste residues must be removed.
- The title indicates that this plan covers both decontamination and demobilization. Demobilization discussions appear to be limited to transport of assets and equipment from the ops area to the decon area, and company retrieval of decontaminated assets and equipment. Clarify whether there is a separate plan that addresses demobilization activities in more detail.

Section 4.0

- Where is the 'condition of cleanliness' defined or identified? Consider appending the referenced company-specific barge decon procedures to this plan.

Section 6

- Revise the plan to address protection of the Houston Ship Channel and environs when transporting items for decontamination from one side of the Ship Channel to the other. Booms and other long objects cannot be allowed to drip contamination into the waters.

- A bullet in this section references "Recovered Product". Revise the plan to clarify that decon waste sis to be managed as waste.

Section 7

- The first sentence states that "In accordance with the approved Demobilization Plan..." This appears to be a circular reference. The title of this plan indicates that it covers both decontamination and demobilization.

Section 7.2

- The two phases are not clear. There are 4 bullets, should these be grouped to reflect the two specific phases referenced?

- Is the decontamination pool sloped to facilitate collection of decontamination liquids? There is a statement that accumulated liquids will be pumped into vac trucks. Will this be a direct vacuum using the vac truck hoses?

- In the paragraph that indicates that an approved bio-degradable cleaning solution has not yet been identified – has there been any submittal of a cleaning material(s)? If not, when is it anticipated to be provided? Note that no decontamination described is to commence until there is approval by Unified Command (UC).

Section 9

- Section headings skipped Section 8. Please clarify whether this is a simple typo or indicates missing content.
- "Mechanical recovery equipment may require a breakdown…" Revise the plan to address this in more detail. Include procedures for equipment breakdown, minimum qualifications of technician performing this task, references to necessary reference technical documents/literature to minimize the likelihood of equipment damage during this process.
- Revise the plan to clarify the location of the boom collection site(s) and what procedures will be used to prevent/minimize/eliminate contamination at those locations.
- During the removal of the boom from the transport vessel, what steps are being taken to address any drips/releases that may occur while in transport, from the booms as they are removed from the vessels?
- This section notes that all boom will be returned to the owner. Does this include the boom identified as "damaged beyond repair?"
- The boom identified as "damaged beyond repair" will, according to the plan, be segregated. Please identify the method of segregation and containment as well as the management of the waste for classification and disposal.

Section 10

- Revise the plan to identify the specific public boat ramps in use.
- Revise the plan to provide additional detail about vessel staging operations.
- Reference Section 11 for details on generated decon water
- Will any waiting vessels be boomed and monitored for sheen? For any vessel that is not removed from the water for cleaning, what is the booming/capture protocol and/or clarify whether all vessels will be removed from the water for decontamination.

Section 14

- This activity involves working with hazardous waste. Revise this section to address pertinent OSHA and RCRA requirements for training.

Section 15

- Confined space entry may require supplied air under certain conditions. To minimize confusion, consider revising the plan to remove the reference to level C PPE for this activity, and reference the Health and Site Safety Plan instead.

Section 16

- Revise the plan to define the minimum standard of cleanliness. Any contamination by Hazardous Waste will require remediation action/spill response except for *de minimis* incidents (using RCRA definition of *de minimis*).

Decon Site Sampling Plan

General

- Revise the plan to address how sampling data will be used to establish baseline conditions, determine whether the site was impacted by decon activities, and whether cleanup is complete.
- Revise the plan throughout to reference and conform to the requirements of the TCEQ QAPP and SW-846. Procedures for hazardous waste sampling, and handling of samples, must comply with the TCEQ Quality Assurance Project Plan (QAPP) for purposes of Quality Control/Quality Assurance (QA/QC). The Sampling Plan (or Waste Handling and Management Plan) should explicitly reference SW-846–Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods. See SW-846 Chapters 1, 2, 9, and 11 for descriptions of accepted sampling methods, plans, QA/QC and relevant procedures. With prior approval through UC, ASTM methods may be substituted in waste characterization and sampling, or in cases where the ASTM method is specified in regulations.
- Title 30 of the Texas Administrative Code Section 25.1 states that the Commission may accept environmental testing laboratory data and analyses for use in Commission decisions regarding any matter under the Commission's jurisdiction relating to permits or other authorizations, compliance matters, enforcement actions, or corrective actions only if the data and analyses are prepared by an environmental testing laboratory accredited by the Commission under this chapter, except as provided in §25.6 of this title (relating to Conditions Under Which the Commission May Accept Analytical Data). Revise the plan to reflect this requirement.

Section 3

- Revise this section throughout to address required field QA/QC samples in types and frequencies specified in the TCEQ QAPP and SW-846. Address the analytes to be tested, test methods, sample volume and containers, preservation methods, and sample holding times.
- The discussion on surface water sampling indicates that only one sample will be taken from shore. Revise the plan to clarify how the sample location will be chosen and discuss why that location will be sufficiently representative of surface water conditions to both establish a baseline condition and to evaluate whether decon operations impacted the surface water.
- Revise the plan to clarify whether samplers will collect one 1 oz grab sample every 100 sq feet, or one 4 oz sample every 400 sq ft.
- Composite sampling for volatile constituents is inappropriate, as it risks volatile loss. Loss of volatiles during the sampling procedure will bias sample results low, and yield results that are not representative of site conditions. Revise the plan to use grab sampling.
- In the discussion on soil sampling, please revise the plan to address how sampling will be conducted for areas that are paved or covered in gravel.
- Revise the plan to add the shipping address and phone number for lab in Kelso, WA.

Section 3.D.1

- Revise the plan to include TPH and any other constituents identified in the waste material sampled elsewhere.
- Table 3.D.3-1 – Preservation should be less than or equal to 4 degrees C.

Section 5

- Revise this section to add the other referenced plans, pertinent portions of Title 40 of the Code of Federal Regulations and Title 30 of the Texas Administrative Code, SW-846 Test Methods, and the TCEQ QAPP.

Gary W. Moore (6SF-ER)
Federal On-Scene Coordinator
U.S EPA Region 6
1445 Ross Ave, Suite 1200

Dallas, TX 75202-2733
Cell: 214.789.1627
moore.gary@epa.gov

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 11:57:55 PM
To: Spall, Amy [amy.spall@westonsolutions.com]
Subject: Fwd: 2nd 80s Fire Waste Management Plan - APPROVED signed
Attachments: Waste Management Plan APPROVED signed.pdf; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

> **From:** Helen Dubach <hdubach@ctehrm.com>
> **Date:** April 18, 2019 at 6:45:10 PM CDT
> **To:** spill12 <spill12@tceq.texas.gov>, "moore.gary@epa.gov" <moore.gary@epa.gov>, "Martin, Johnathan (PCS)" <Johnathan.Martin@pcs.hctx.net>
> **Subject: 2nd 80s Fire Waste Management Plan - APPROVED signed**
>
> Please find attached the approved Waste Management Plan for the 2nd 80s Fire. Attachments are too large to email, but are available on request.
>
> Cheers,
>
> **Helen Dubach**
> Senior Consultant and Manager, Readiness
> CTEH RM
> Mobile: 504-616-2427
> Emergency (24hr): 1-800-916-8233
> hdubach@ctehrm.com | www.ctehrm.com

Message

From: Helen Dubach [hdubach@ctehrm.com]
Sent: 4/18/2019 11:45:10 PM
To: spill12 [spill12@tceq.texas.gov]; Moore, Gary [Moore.Gary@epa.gov]; Martin, Johnathan (PCS) [Johnathan.Martin@pcs.hctx.net]
Subject: 2nd 80s Fire Waste Management Plan - APPROVED signed
Attachments: Waste Management Plan APPROVED signed.pdf

Please find attached the approved Waste Management Plan for the 2nd 80s Fire. Attachments are too large to email, but are available on request.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 2:12:20 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: Tank Update 4-18-19
Attachments: Tank Update 4-18-19.pdf

From: Crossland, Ronnie
Sent: Thursday, April 18, 2019 7:15 AM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>
Subject: FW: Tank Update 4-18-19

From: Brent Weber <bweber@iterm.com>
Sent: Thursday, April 18, 2019 7:14 AM
To: Maurice Wesley <Mwesley@iterm.com>; kelly.cook@tceq.texas.gov; Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; spill12 <spill12@tceq.texas.gov>
Cc: Maurice Wesley <Mwesley@iterm.com>; Jeff Jacobson <jjacobson@iterm.com>; Jason Antu <jantu@iterm.com>; Mike Gaudet <MGaudet@iterm.com>
Subject: Tank Update 4-18-19

Attached is the tank update. The color code and descriptions have been changed slightly to provide better overall descriptions.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 2:03:57 PM
To: 'Spall, Amy' [Amy.Spall@WestonSolutions.com]
Subject: FW: Tank Update 4-18-19
Attachments: Tank Update 4-18-19.pdf

From: Crossland, Ronnie
Sent: Thursday, April 18, 2019 7:15 AM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>
Subject: FW: Tank Update 4-18-19

From: Brent Weber <bweber@iterm.com>
Sent: Thursday, April 18, 2019 7:14 AM
To: Maurice Wesley <Mwesley@iterm.com>; kelly.cook@tceq.texas.gov; Adams, Adam <Adams.Adam@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; spill12 <spill12@tceq.texas.gov>
Cc: Maurice Wesley <Mwesley@iterm.com>; Jeff Jacobson <jjacobson@iterm.com>; Jason Antu <jantu@iterm.com>; Mike Gaudet <MGaudet@iterm.com>
Subject: Tank Update 4-18-19

Attached is the tank update. The color code and descriptions have been changed slightly to provide better overall descriptions.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 9:20:19 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]
Subject: Fwd: 2nd 80s Fire Vac Truck Decon Plan for review
Attachments: Vac Truck Decon Plan 04.18.2019.pdf; ATT00001.htm

Please review

Sent from my iPhone

Begin forwarded message:

> **From:** "Moore, Gary" <Moore.Gary@epa.gov>
> **Date:** April 18, 2019 at 3:51:26 PM CDT
> **To:** "Smalley, Bryant" <smalley.bryant@epa.gov>
> **Cc:** "Adams, Adam" <Adams.Adam@epa.gov>
> **Subject: Fwd: 2nd 80s Fire Vac Truck Decon Plan for review**
>
> Bryant,
>
> Could you have someone review this. I have reviewed and have no comments. Need turnaround by tomorrow.
>
> Thanks
> Gary Moore
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** Helen Dubach <hdubach@ctehrm.com>
> > **Date:** April 18, 2019 at 3:40:57 PM CDT
> > **To:** spill12 <spill12@tceq.texas.gov>, "moore.gary@epa.gov" <moore.gary@epa.gov>
> > **Cc:** "bob.patton@tceq.texas.gov" <bob.patton@tceq.texas.gov>, Karrah Shremshock <KShremshock@iterm.com>
> > **Subject: 2nd 80s Fire Vac Truck Decon Plan for review**
> >
> > Please find attached the draft Vac Truck Decon Plan for review. Hopefully we can keep the momentum going with the plan reviews and discuss tomorrow morning!
> >
> > Thank you for all of your time and efforts over the past couple of days.
> >
> > Cheers,
> >
> > **Helen Dubach**
> > Senior Consultant and Manager, Readiness
> > CTEH RM
> > Mobile: 504-616-2427

Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com |www.ctehrm.com

Message

From: Helen Dubach [hdubach@ctehrm.com]
Sent: 4/18/2019 8:40:57 PM
To: spill12 [spill12@tceq.texas.gov]; Moore, Gary [Moore.Gary@epa.gov]
CC: Bob Patton [bob.patton@tceq.texas.gov]; Karrah Shremshock [KShremshock@iterm.com]
Subject: 2nd 80s Fire Vac Truck Decon Plan for review
Attachments: Vac Truck Decon Plan 04.18.2019.pdf

Please find attached the draft Vac Truck Decon Plan for review. Hopefully we can keep the momentum going with the plan reviews and discuss tomorrow morning!

Thank you for all of your time and efforts over the past couple of days.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: Jeff Jacobson [jjacobson@iterm.com]
Sent: 4/18/2019 8:32:40 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: Re: Tank Update

Gary, I had to leave early today. I can give you some accurate information tomorrow after I receive an update in the morning. Thanks

Sent from my iPhone

On Apr 18, 2019, at 3:25 PM, Moore, Gary <Moore.Gary@epa.gov<mailto:Moore.Gary@epa.gov>> wrote:

Hey Jake,

Is there a way to say that no additional materials can be removed until tank is demolished and an anticipated date that will happen along with what emissions will are expected from the remaining material in the tank or say that degassing will continue until tank is demolished.

Basically, we are trying to get an idea of when the plan is to demolish and remove the remaining materials for our planning purposes.

Thanks

Gary W. Moore (6SF-ER)
Federal On-Scene Coordinator
U.S EPA Region 6
1445 Ross Ave, Suite 1200
Dallas, TX 75202-2733
Cell: 214.789.1627
moore.gary@epa.gov<mailto:moore.gary@epa.gov>

<Tank Update 4-18-19.pdf>

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 8:22:48 PM
To: 'jjacobson@iterm.com' [jjacobson@iterm.com]
Subject: Tank Update
Attachments: Tank Update 4-18-19.pdf

Hey Jake,

Is there a way to say that no additional materials can be removed until tank is demolished and an anticipated date that will happen along with what emissions will are expected from the remaining material in the tank or say that degassing will continue until tank is demolished.

Basically, we are trying to get an idea of when the plan is to demolish and remove the remaining materials for our planning purposes.

Thanks

Gary W. Moore (6SF-ER)
Federal On-Scene Coordinator
U.S EPA Region 6
1445 Ross Ave, Suite 1200
Dallas, TX 75202-2733
Cell: 214.789.1627
moore.gary@epa.gov

Thursday, April 18, 2019

NRG/Bostco Location Assessment

Below is a summary of the measurements gathered using the 2-phase oil/water detector. The measurements were taken below grating located on the outer wall at the NRG/Bostco location.

Location Number	Thickness of Oil (in)
1	0.5
2	0.25
3	1.0

4	0.10
5	0.5
6	0.5
7	0.0 – No Detection
8	0.0 – No Detection
9	0.25
10	0.5

Message

From: Helen Dubach [hdubach@ctehrm.com]
Sent: 4/17/2019 3:38:23 PM
To: Andy Smith [Andy.Smith@tpwd.texas.gov]; William Irwin [William.Irwin@tpwd.texas.gov]; Heather.Biggs@tpwd.texas.gov; alex.nunez@tpwd.texas.gov; Stephanie Croatt [Stephanie.Croatt@tpwd.texas.gov]; Mike Stovall [Mike.Stovall@tpwd.texas.gov]; Moore, Gary [Moore.Gary@epa.gov]; spill12 [spill12@tceq.texas.gov]
CC: Stamper, Tony [tstamper@nrcc.com]; Boutwell, James [JBoutwell@nrcc.com]; rfrancis@teichmangroup.com; Reid McLelland [RMcLelland@iterm.com]; Paige.Doelling@noaa.gov; craig.cook@glo.texas.gov
Subject: Battleship Assessment and Cleanup Plan

Hi folks,

Sorry I couldn't make it to the meeting at the Battleship yesterday. I hear it was productive. I have been tasked with pulling the plan together, with input from TPWD and contractors. I propose that we address this plan in three parts, basic overview as follows:

1) Assessment
    a. Development of plan for assessment of the Battleship
    b. Internal assessment – air monitoring
    c. External assessment - visual SCAT-type survey for released material and other impacts
    d. Documentation of monitoring and assessment
    e. Endpoint determination and agreement
    f. Identification and agreement of appropriate cleanup methods

2) Cleanup
    a. Development of cleanup plan based on assessment, endpoints and agreed methods
    b. Implementation of Cleanup Plan and monitoring

3) Post-Cleanup assessment and closure
    a. Post-cleanup assessment survey
    b. Documentation
    c. Closure/Sign-off

Please review and let me have your input for:

- any key components missed in the above, or edits
- which parties/personnel should be involved for each step

I propose a meeting early next week (Tuesday?) to get started on Part 1.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: Dustin White [dwhite@responsegroupinc.com]
Sent: 4/17/2019 2:37:29 PM
To: Moore, Gary [Moore.Gary@epa.gov]
CC: bweber@iterm.com; spill12@tceq.texas.gov; hdubach@cteh.com
Subject: FW: Request for Plan Approval - 2nd 80's Fire Large Vessel and Equipment Decon
Attachments: ATT00001.txt

Gary,
We did not receive a response to this item prior to Adam's departure. Please action this as you feel is appropriate.

Best Regards,
Dustin White

Dustin White | The Response Group
Contingency Planning Manager
(O) 281.880.5000
(C) 832.493.1326
dwhite@responsegroupinc.com

The Response Group
responsegroupinc.com

From: Brent Weber [mailto:bweber@iterm.com]
Sent: Tuesday, April 16, 2019 2:38 PM
To: SPILL12@TCEQ.TEXAS.GOV; Adams, Adam (Adams.Adam@epa.gov) <Adams.Adam@epa.gov>
Cc: Dustin White <dwhite@responsegroupinc.com>; Helen Dubach (hdubach@ctehrm.com) <hdubach@ctehrm.com>
Subject: Request for Plan Approval - 2nd 80's Fire Large Vessel and Equipment Decon

Please find the attached Large Vessel and Equipment decon plan for approval.

Until full approvals, and as a result of the emergency nature of this response and to continue response efforts, we request authorization to use this plan on an interim basis.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Thursday, April 18, 2019

NRG/Bostco Location Assessment

Below is a summary of the measurements gathered using the 2-phase oil/water detector. The measurements were takin below grating located on the outer wall at the NRG/Bostco location.

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4	0.10
5	0.5
6	0.5
7	0.0 – No Detection
8	0.0 – No Detection
9	0.25
10	0.5

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/18/2019 3:29:25 PM
To: Smith, Monica [smith.monica@epa.gov]; Moore, Gary [Moore.Gary@epa.gov]; Smalley, Bryant [smalley.bryant@epa.gov]
Subject: FW: ITC Response Partners Follow-up

From: Adams, Adam
Sent: Friday, April 12, 2019 2:56 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Cc: Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Spall, Amy <amy.spall@westonsolutions.com>; Patel, Anish <patel.anish@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Subject: Fwd: ITC Response Partners Follow-up

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Torres-Segura, Rosio (HCOHSEM)" <Rosio.Torres-Segura@oem.hctx.net>
> **Date:** April 12, 2019 at 2:52:36 PM CDT
> **To:** "Torres-Segura, Rosio (HCOHSEM)" <Rosio.Torres-Segura@oem.hctx.net>
> **Subject: ITC Response Partners Follow-up**
>
> Good afternoon:
>
> As a follow-up to yesterday's meeting at ITC, the Regional Joint Information Center (JIC) will organize a stakeholder/JIC meeting with partner agencies to collaborate on the language and the facts/figures needed to update the public on the Intercontinental Terminals Company (ITC) fire.
>
> Harris County Judge Lina Hidalgo has requested that the response agencies involved summarize their work, findings, and timelines for publication and discussion. A meeting to gather information and vet the messages will be scheduled, date TBD, followed by a joint news conference to update the public on health and environmental findings/issues.
>
> Judge Hidalgo understands that this a complex event and that once the emergency response is complete, the transition into recovery will lead to additional findings.
>
> The following contacts are on the mailing list for this meeting, please let us know if we are missing anyone (operational/PIO) and provide contact information:
>
> Joe Madden, Harris County Judge's Office (CJO)
> Alex Triantaphyllis, Harris County Judge's Office (CJO)
> Ashley San Miguel, Harris County Judge's Office (CJO)
> Chief Laura Christensen, Harris County Fire Marshal's Office (HCFMO)
> Asst. Chief Bob Royal, Harris County Hazmat (HCFMO)

Rachel Moreno, PIO, Fire Marshal's Office (HCFMO)
Bob Allen, Director, Harris County Pollution Control Services (HCPCS)
Latrice Babin, Harris County Pollution Control Services (HCPCS)
Dr. Umair Shah, Director, Harris County Public Health (HCPH)
Dr. Michael Schaffer, Harris County Public Health (HCPH)
Michael McClendon, Director, Harris County Public Health (HCPH)
Jennifer Kiger, Harris County Public Health (HCPH)
Elizabeth Perez, Harris County Public Health (HCPH)
Kevin Oditt, U.S. Coast Guard (USCG)
Adam Adams, U.S. Environmental Protection Agency (EPA)
Carmen Assunto, U.S. Environmental Protection Agency (EPA)
Janie Acevedo, U.S. Environmental Protection Agency (EPA)
Richard Chism, Texas Commission on Environmental Quality (TCEQ)
Andrea Morrow, Texas Commission on Environmental Quality (TCEQ)
Heather Biggs, Texas Parks & Wildlife Department (TPWD)
Rebecca Hensley, Texas Parks & Wildlife Department (TPWD)
Brent Weber, Incident Commander, ITC
Alice Richardson, PIO, ITC
Mark Sloan, Emergency Management Coordinator, Harris County Office of Homeland Security & Emergency Management (HCOHSEM)
Francisco Sanchez, Deputy Emergency Management Coordinator, Harris County Office of Homeland Security & Emergency Management (HCOHSEM)
Rosio Torres, Harris County Office of Homeland Security & Emergency Management/Regional Joint Information Center (HCOHSEM)

Thanking you in advance,

Rosio Torres
Harris County Office of Homeland Security & Emergency Management
Phone: 713-426-9542| Email: rosio.torres@oem.hctx.net
Website: ReadyHarris.org | Download our App
Twitter | Facebook | Instagram

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 2:36:44 PM
To: 'Spall, Amy' [Amy.Spall@WestonSolutions.com]
Subject: FW: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan
Attachments: Process for Moving SCAT Segments into PM_Final.docx

From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, April 17, 2019 2:33 PM
To: Art Saunders <Art.Saunders@cardno.com>
Cc: Moore, Gary <Moore.Gary@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 <Matthew.D.Tilimon@uscg.mil>; Kendra.bernhagen@tceq.texas.gov; Helen Dubach <hdubach@ctehrm.com>
Subject: Re: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

Art,
I made one additional changes on the sampling sentence to clarify. It now reads:
Periodic sampling (for visual inspection) in areas (*e.g*, under docks) in areas not accessible for shore- or boat-based visual inspection methods

All changes have been accepted, final version attached.
Paige

On Wed, Apr 17, 2019 at 1:49 PM Art Saunders <Art.Saunders@cardno.com> wrote:

> Couple minor additions in tracked changes.

Art Saunders
BUSINESS UNIT LEADER, NATURAL RESOURCES NORTHEAST | SR. CONSULTANT / PRINCIPAL
PRINCIPAL - BIOLOGY
CARDNO

Direct +1 302 395 3361 Mobile +1 610 220 3957
Address 121 Continental Drive Suite 308, Newark , Delaware 19713
Email art.saunders@cardno.com Web www.cardno.com

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From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, April 17, 2019 12:49 PM
To: Gary Moore <moore.gary@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 <Matthew.D.Tilimon@uscg.mil>; Kendra.bernhagen@tceq.texas.gov; Art Saunders <Art.Saunders@cardno.com>; Helen Dubach <hdubach@ctehrm.com>
Subject: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

Hi all,

Attached is a draft P&M plan for San Jacinto Port Terminal and Carpenter's Bayou. Length of the P&M for San Jacinto Port Terminal is TBD, pending completion of recovery efforts and understanding what released material may remain.

P&M plans can be drafted for other segments if appropriate.

Art,

We can incorporate this into the body of SCAT documentation as you see appropriate.

Please let me and Art know if you have questions or comments,

Paige

--

Paige Doelling, PhD

NOAA Scientific Support Coordinator

for USCG District 8

Houston, TX

Mobile: 206-549-7819

--
Paige Doelling, PhD
NOAA Scientific Support Coordinator
for USCG District 8
Houston, TX
Mobile: 206-549-7819

Process for Moving SCAT Segments into Patrol & Monitoring (P&M) Status

0418719

Prepared by: Paige Doelling, NOAA SSC, Reviewed By Art Saunders, SCAT Coordinator (Cardno)

Rationale: Some segments in the response may meet cleanup endpoints, be close to meeting cleanup endpoints, and/or require no more active cleanup, but not be ready to be signed out of response due to concerns over sheening or potential for re-oiling from other sources (*e.g.*, vessel traffic). These segments will be placed into a Patrol & Monitoring status for a period of time to ensure all free oil is recovered, and sheening does not affect sensitive resources or industrial activities.

P&M measures may include:

-Placement of passive clean up measures (*e.g.*, sorbent materials of some kind)

- Active retention of sheening or other releases (*e.g*, hard boom)

- Visual monitoring at proscribed intervals

- Periodic sampling (for visual inspection) in areas (*e.g*, under docks) in areas not accessible for shore- or boat-based visual inspection methods.

Duration of P&M and frequency of evaluations will be established for specific segments. Duration will be re-evaluated and adjusted if necessary.

Segments in P&M Status will be so designated on the SCAT Overview Map. They will be moved out of response upon completion of P&M. Completion of P&M will be recommended by Ops and/or SCAT, and formalized by an SIR inspection (if necessary), and/or submittal of an SIR form for UC signoff.

Areas To Be Place in P&M Status – Draft P&M Plan

San Jacinto Port Terminal – Due to concerns regarding full recovery of material under the dock.

Measures: Sorbent boom at dock to collect any released material migrating from under the dock to open water in the terminal. Hard boom staged at entrance to terminal to contain released material in the event of a substantial amount migrating.

Monitoring:

1) Daily measurement of released material thickness using oil/water interface meter for first week following termination of recovery efforts. Discontinue when no oil is

ED_002627_00018003-00001

detected. Decrease frequency of measurements following five (5) days of consistent measurements.

2) Daily visual inspection of sorbent boom to evaluate released material recovery. Replacement of boom as necessary.
3) Initial monitoring period is TBD (X) weeks following termination of recovery efforts. Length of monitoring period may be decreased in case of consistent negative results.

Carpenter's Bayou – Vessels from fleeting areas in Old River will be moved to fleeting areas in Carpenter's Bayou. P&M status to ensure areas are not re-contaminated.

Monitoring:

1) On water patrols to determine presence/absence of recoverable material or sheen following movement of vessels from contaminated area (primarily Old River) to Carpenter's Bayou. Hot shot crew on standby to recover oil if observed.
2) Conduct daily patrols for one (1) week following movement of last vessel from contaminated zone to Carpenter's Bayou.

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 2:35:24 PM
To: 'Spall, Amy' [Amy.Spall@WestonSolutions.com]
Subject: FW: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan
Attachments: Process for Moving SCAT Segments into P&M.docx

From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, April 17, 2019 12:49 PM
To: Moore, Gary <Moore.Gary@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 <Matthew.D.Tilimon@uscg.mil>; Kendra.bernhagen@tceq.texas.gov; Art Saunders <Art.Saunders@cardno.com>; Helen Dubach <hdubach@ctehrm.com>
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Art,
We can incorporate this into the body of SCAT documentation as you see appropriate.

Please let me and Art know if you have questions or comments,

Paige

--
Paige Doelling, PhD
NOAA Scientific Support Coordinator
for USCG District 8
Houston, TX
Mobile: 206-549-7819

Process for Moving SCAT Segments into Patrol & Monitoring (P&M) Status

0418719

Prepared by: Paige Doelling, NOAA SSC

Rationale: Some segments in the response may be close to meeting cleanup endpoints, and/or require no more active cleanup, but not be ready to be signed out of response due to concerns over sheening or potential for re-oiling from other sources. These segments will be placed into a Patrol & Monitoring status for a period of time to ensure all free oil is recovered, and sheening does not affect sensitive resources or industrial activities.

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- Active retention of sheening or other releases (*e.g*, hard boom)

- Visual monitoring at proscribed intervals

- Periodic sampling in areas (*e.g*, under docks) in areas not amenable to visual inspection methods.

Duration of P&M and frequency of evaluations will be established for specific segments. Duration will be re-evaluated and adjusted if necessary.

Segments in P&M Status will be so designated on the SCAT Overview Map. They will be moved out of response upon completion of P&M.

Areas To Be Place in P&M Status – Draft P&M Plan

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Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/17/2019 1:38:49 PM
To: Patel, Anish [patel.anish@epa.gov]
CC: 'amy.spall@westonsolutions.com' [amy.spall@westonsolutions.com]
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC
Attachments: Treatability Study.pdf; Plan for Managing Incident Wastewater On-Site.pdf

From: Martin, John
Sent: Sunday, April 07, 2019 2:08 PM
To: Fisher, Kelsey <fisher.kelsey@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC

FYI

John J. Martin
Federal On-Scene Coordinator (OSC)
1445 Ross Ave (6SF-ER)
Dallas, Texas 75202

214.665.6748 * *fax 214.665.2278*

From: Brent Weber <bweber@iterm.com>
Sent: Sunday, April 07, 2019 1:02 PM
To: spill12 <spill12@tceq.texas.gov>; kelly.cook@tceq.texas.gov
Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Travis Lay <Travis.Lay@Tceq.Texas.Gov>; Martin, John <martin.john@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; david.galindo@tceq.texas.gov; Bob Patton <bob.patton@tceq.texas.gov>; tmitchel@tceq.texas.gov; aileen.hooks@bakerbotts.com; molly.cagle@bakerbotts.com; matthew.kuryla@bakerbotts.com; harrison.reback@bakerbotts.com
Subject: WWTS Plan For Managing Incident Wastewater - ITC

Please find attached the Plan for Managing Incident Wastewater On-Site and accompanying Treatability Study. Please review and advise. In addition, please send what you believe is the appropriate sampling and monitoring protocol as soon as possible.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Spall, Amy [Amy.Spall@WestonSolutions.com]
Sent: 4/17/2019 12:41:22 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: FW: Tank Update 4-17-19
Attachments: ATT00001.txt; Tank Update 4-17-19.pdf

From: Randy Wagner [mailto:rwagner@responsegroupinc.com]
Sent: Wednesday, April 17, 2019 7:36 AM
To: Michael.Honeycutt@tceq.texas.gov; Brandy.Brooks@tceq.texas.gov; Richard.Chism@tceq.texas.gov; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia.gandee@tceq.texas.gov; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; Anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; patel.anish@epa.gov; Spall, Amy <Amy.Spall@WestonSolutions.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; publicaffairshouston@uscg.mil; Mike Iacoboni <miacoboni@responsegroupinc.com>; mescoto@iterm.com; Spill12@tceq.texas.gov; Rodney.Reed@fmo.hctx.net; fisher.kelsey@epa.gov; mgaudet@iterm.com; loesel.matthew@epa.gov; jenniffier.hawes@dps.texas.gov; Harrison.reback@bakerbotts.com; Michael.mcclendon@phs.hctx.net; Michael.schaffer@phs.hctx.net; Matthew.kuryla@bakerbotts.com; Molly.cagle@bakerbotts.com; aileen.hooks@bakerbotts.com; CGITCResponse@gmail.com; adams.adam@epa.gov
Cc: Randy Wagner <rwagner@responsegroupinc.com>
Subject: Tank Update 4-17-19

**** External Email ****
Good morning,

See attached Tank Update for 4/17/19.

Best Regards,

Randy

Randall Wagner
The Response Group
108 Innwood Drive
Covington, Louisiana 70433
Office: 985-400-5441 ext 301
Cell: 713-202-0654
281-880-5000 - Houston, TX Main Office
rwagner@responsegroupinc.com
www.responsegroupinc.com

"YOUR ABILITY TO RESPOND IS OUR SHARED RESPONSIBILITY"

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Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/18/2019 1:59:10 PM
To: 'Spall, Amy' [Amy.Spall@WestonSolutions.com]
Subject: FW: 2nd 80s Fire Large Equipment Decon Plan, final approved
Attachments: 2nd 80s Fire Large Equipment Decon Plan FINAL signed.pdf

From: Helen Dubach <hdubach@ctehrm.com>
Sent: Thursday, April 18, 2019 6:50 AM
To: spill12 <spill12@tceq.texas.gov>; Moore, Gary <Moore.Gary@epa.gov>; Bob Patton <bob.patton@tceq.texas.gov>; Martin, Johnathan (PCS) <Johnathan.Martin@pcs.hctx.net>
Cc: Karrah Shremshock <KShremshock@iterm.com>
Subject: 2nd 80s Fire Large Equipment Decon Plan, final approved

Please find attached the Large Equipment and Vessel (Southwest Shipyards) Decon Plan. Thank you to all involved in getting this one finalized.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Search Google Maps
See travel times, traffic and nearby places
Texas Terminal LP
15902 Peninsula St
Houston, TX 77015
29.741218, -95.116943
Buffalo Bayou
3D
Map
Imagery ©2019 Google, Map data ©2019 Google
United States
Terms
Send feedback
200 ft

Non Delivery Report

From: Microsoft Outlook [MicrosoftExchange329e71ec88ae4615bbc36ab6ce41109e@usepa.onmicrosoft.com]
Sent: 4/12/2019 4:12:52 PM
To: 'mgauget@iterm.com' [mgauget@iterm.com]
Subject: Undeliverable: ITC: 2nd 80's Fire Emergency Response
Attachments: ITC: 2nd 80's Fire Emergency Response

Your message did not reach some or all of the intended recipients.

Subject:ITC: 2nd 80's Fire Emergency Response
Sent:4/12/2019 4:12:52 PM

The following recipient(s) cannot be reached:

'mgauget@iterm.com' on 4/12/2019 4:12:52 PM
Diagnostic code = OrNameUnrecognized; Reason code = TransferFailed; Status code = 510
<us-smtp-1.mimecast.com #5.1.351 smtp;550 5.1.351 Remote server returned unknown recipient or mailbox unavailable -> 550 Invalid Recipient - https://community.mimecast.com/docs/DOC-1369#550 [g0wKyWQ9MpuV_IekXR_vGA.us137]>

Office 365

Your message to mgauget@iterm.com couldn't be delivered.

mgauget wasn't found at iterm.com, or the mailbox is unavailable.

Moore.Gary	Office 365	mgauget
Action Required		Recipient

Unknown To address

How to Fix It

The email address might be misspelled or it might not exist. Try one or more of the following:

- **Retype the recipient's address, then resend the message -** If you're using Outlook, open this non-delivery report message and click **Send Again** from the menu or ribbon. In Outlook on the web, select this message, and then click the "**To send this message again, click here.**" link located just above the message preview window. In the To or Cc line, delete and then retype the entire recipient's address (ignore any address suggestions). After typing the complete address, click **Send** to resend the message. If you're using an email program other than Outlook or Outlook on the web, follow its standard way for resending a message. Just be sure to delete and retype the recipient's entire address before resending it.
- **Remove the recipient from the recipient Auto-Complete List, then resend the message -** If you're using Outlook or Outlook on the web, follow the steps in the "Remove the recipient from the recipient Auto-Complete List" section of this article. Then resend the message. Be sure to delete and retype the recipient's entire address before clicking **Send**.

- **Contact the recipient by some other means,** (by phone, for example) to confirm you're using the right address. Ask them if they've set up an email forwarding rule that could be forwarding your message to an incorrect address.

If the problem continues, forward this message to your email admin. If you're an email admin, refer to the **More Info for Email Admins** section below.

Was this helpful? Send feedback to Microsoft.

More Info for Email Admins

Status code: 550 5.1.351

When Office 365 tried to send the message, the external email server returned an error stating that the recipient is unknown or the mailbox is unavailable. This error was reported by an email server outside Office 365.

If you or the sender can't fix the problem, contact the responsible party's email admin - Give them the error code and error message from this non-delivery report (NDR) to help them troubleshoot the issue. To determine who the responsible party might be, check the error for information about where the problem is happening. For example, look for a domain name like contoso.com. A domain name in the error might suggest who is responsible for the error. It could be the recipient's email server, or it could be a third-party service that your organization or the recipient's organization is using to process or filter email messages.

Although the sender might be able to fix the issue by correcting the recipient address, it's likely that only the recipient's email admin can fix the problem. Unfortunately, it's unlikely Office 365 Support will be able to help with these kinds of externally reported errors.

Original Message Details

Created Date:	4/12/2019 4:12:50 PM
Sender Address:	Moore.Gary@epa.gov
Recipient Address:	mgauget@iterm.com
Subject:	ITC: 2nd 80's Fire Emergency Response

Error Details

Reported error:	*550 5.1.351 Remote server returned unknown recipient or mailbox unavailable -> 550 Invalid Recipient - https://community.mimecast.com/docs/DOC-1369#550 [g0wKyWQ9MpuV_IekXR_vGA.us137]*
DSN generated by:	SN6PR09MB3661.namprd09.prod.outlook.com
Remote server:	us-smtp-1.mimecast.com

Message Hops

HOP	TIME (UTC)	FROM	TO	WITH
1	4/12/2019 4:12:50 PM	SN6PR09MB3071.namprd09.prod.outlook.com	SN6PR09MB3071.namprd09.prod.outlook.com	mapi

2	4/12/2019 4:12:50 PM	SN6PR09MB3071.namprd09.prod.outlook.com	SN6PR09MB3661.namprd09.prod.outlook.com	Microsoft SMTP Server cipher=TLS_ECDHE_RS

Original Message Headers


```
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=epa.gov; s=selector1;
 h=From:Date:Subject:Message-ID:Content-Type:MIME-Version:X-MS-Exchange-SenderADCheck;
 bh=hIotGO0mbcEtFcj8u3jBgxfgA8Utlm76iGEE869vgVU=;

b=YlvsClPgZj5r1lAQ3JVW0+PL+lXeleoB3FWAs1UL0xHS57kkR6DBMnjzfi7o7jtHZY2rATvK4RAMyMe+wpIs913
ZrgN/NGAJ5K+soI3stVfwP19VBLbTZEua5ueBcff0SYPiJVnK2jypEM/hZdPC9iQzrZmCGKInrUa7EVffXug=
Received: from SN6PR09MB3071.namprd09.prod.outlook.com (20.177.251.15) by
 SN6PR09MB3661.namprd09.prod.outlook.com (20.177.249.210) with Microsoft SMTP
 Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id
 15.20.1792.14; Fri, 12 Apr 2019 16:12:50 +0000
Received: from SN6PR09MB3071.namprd09.prod.outlook.com
 ([fe80::f46e:7f5d:a37d:7bf3]) by SN6PR09MB3071.namprd09.prod.outlook.com
 ([fe80::f46e:7f5d:a37d:7bf3%4]) with mapi id 15.20.1792.016; Fri, 12 Apr 2019
 16:12:50 +0000
From: "Moore, Gary" <Moore.Gary@epa.gov>
To: "'mgauget@iterm.com'" <mgauget@iterm.com>
CC: "Adams, Adam" <Adams.Adam@epa.gov>, Daniel Tighe
        <Daniel.Tighe@WestonSolutions.com>
Subject: ITC: 2nd 80's Fire Emergency Response
Thread-Topic: ITC: 2nd 80's Fire Emergency Response
Thread-Index: AdTxSkGVTjkbk8hZTQe4knzdhJy7eg==
Date: Fri, 12 Apr 2019 16:12:50 +0000
Message-ID:
<SN6PR09MB3071A87E79F52DF0350FDD0487280@SN6PR09MB3071.namprd09.prod.outlook.com>
Accept-Language: en-US
Content-Language: en-US
X-MS-Has-Attach:
X-MS-TNEF-Correlator:
authentication-results: spf=none (sender IP is )
 smtp.mailfrom=Moore.Gary@epa.gov;
x-originating-ip: [134.67.29.79]
z-ms-publictraffictype: Email
x-ms-office365-filtering-correlation-id: 92282dab-390f-479e-79e3-08d6bf61b5df
z-microsoft-antispam:
BCL:0;PCL:0;RULEID:(2390118)(7020095)(4652040)(8989299)(4534185)(4627221)(201703031133081
)(201702281549075)(8990200)(5600139)(711020)(4605104)(2017052603328)(7193020);SPVR:SN6PR0
9MB3661;
z-ms-traffictypediagnostic: SN6PR09MB3661:
x-ms-exchange-purlcount: 2
z-ld-processed: 88b378b3-6748-4867-acf9-76aacbeca6a7,ExtAddr
x-microsoft-antispam-prvs:
<SN6PR09MB3661E48D42D875AED47A15C287280@SN6PR09MB3661.namprd09.prod.outlook.com>
z-forefront-prvs: 0005B05917
x-forefront-antispam-report:
SFV:NSPM;SFS:(10019020)(396003)(39860400002)(366004)(136003)(376002)(346002)(189003)(1990
```

04)(25786009)(4744005)(33656002)(54896002)(96806003)(55016002)(102836004)(486006)(53936002)(106356001)(476003)(6306002)(6916009)(186003)(6506007)(7696005)(2906002)(26005)(72206003)(316002)(105586002)(71200400001)(81166006)(6436002)(74316002)(7736002)(68736007)(8115601 4)(790700001)(8676002)(478600001)(66066001)(14454004)(9326002)(54906003)(5660300002)(9928 6004)(6116002)(3846002)(8936002)(86362001)(256004)(71190400001)(525360l4)(4326008)(977360 04)(491001);DIR:OUT;SFP:1102;SCL:1;SPVR:SN6PR09MB3661;H:SN6PR09MB3071.namprd09.prod.outlook.com;FPR:;SPF:None;LANG:en;PTR:InfoNoRecords;MX:1;A:1;

received-spf: None (protection.outlook.com: epa.gov does not designate

permitted sender hosts)

z-ms-exchange-senderadcheck: 1

x-microsoft-antispam-message-info:
kUC9PZewqKf4BaU8Ke2TietqfmIRz50/Q6179iPBlYvlSFd8RbQgzpeL0zf1PiQQouh8lAyICJbe2tyQpxn/8WCvc TzCmT52cGNI+Q6Tn8251jUeKl0lATJidU2Y2F8gOFgvtWr4DyYf/GqjRl515zlz5LjMuA2K/HESuD9S3AfEslMba2 2f4NcD6Wvp/YuTM/XRCjsM40RjDiyKl7Kvi28eXSxWJFpgs26R8jULdp3IEBTgUu/H1DmrntzFemSc3XNZQ6oRUCI Uyadbh6QtIG8vdd6dJzQUxG4ldkxcQ/+3j74Ur1PcolwlVjPfEjWDBYz7iW18opPlYnCayj+k4McQvr+Gl0HIKFS2 LjUyFr3VZolX+c1LgqoUhvXhT+pF70Io1EQIWtIS+gz/j9Zj09gEnI3ABmQvntyhZvfYUlw=

Content-Type: multipart/alternative;

boundary="_000_SN6PR09MB3071A87E79F52DF0350FDD0487280SN6PR09MB3071namp_"

MIME-Version: 1.0

X-OriginatorOrg: epa.gov

X-MS-Exchange-CrossTenant-Network-Message-Id: 92282dab-390f-479e-79e3-08d6bf61b5df

X-MS-Exchange-CrossTenant-originalarrivaltime: 12 Apr 2019 16:12:50.3048

(UTC)

X-MS-Exchange-CrossTenant-fromentityheader: Hosted

X-MS-Exchange-CrossTenant-id: 88b378b3-6748-4867-acf9-76aacbeca6a7

X-MS-Exchange-CrossTenant-mailboxtype: HOSTED

X-MS-Exchange-Transport-CrossTenantHeadersStamped: SN6PR09MB3661

Message

From: Moore, Gary [Moore.Gary@epa.gov]
Sent: 4/12/2019 4:12:50 PM
To: 'mgauget@iterm.com' [mgauget@iterm.com]
CC: Adams, Adam [Adams.Adam@epa.gov]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]
Subject: ITC: 2nd 80's Fire Emergency Response

Hello,

The EPA recognizes that DOW Chemical Company provided water from their fire water system for Tucker Bayou flushing activities during the Intercontinental Terminals Company's 2nd 80's Fire emergency response.

Thanks,

Gary W. Moore (6SF-ER)
Federal On-Scene Coordinator
U.S EPA Region 6
1445 Ross Ave, Suite 1200
Dallas, TX 75202-2733
Cell: 214.789.1627
moore.gary@epa.gov

Message

From: Helen Dubach [hdubach@ctehrm.com]
Sent: 4/15/2019 2:18:49 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: Latest WMP draft
Attachments: Waste Management Plan 12APRIL2019.pdf

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com |www.ctehrm.com

ED_002627_00018046-00001

Message

From: Helen Dubach [hdubach@ctehrm.com]
Sent: 4/18/2019 11:49:50 AM
To: spill12 [spill12@tceq.texas.gov]; Moore, Gary [Moore.Gary@epa.gov]; Bob Patton [bob.patton@tceq.texas.gov]; Martin, Johnathan (PCS) [Johnathan.Martin@pcs.hctx.net]
CC: Karrah Shremshock [KShremshock@iterm.com]
Subject: 2nd 80s Fire Large Equipment Decon Plan, final approved
Attachments: 2nd 80s Fire Large Equipment Decon Plan FINAL signed.pdf

Please find attached the Large Equipment and Vessel (Southwest Shipyards) Decon Plan. Thank you to all involved in getting this one finalized.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/14/2019 6:02:53 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: FW: 2nd 80s Fire Equipment Decon Plan, 04/12/2019 for UC approval
Attachments: 2nd 80s Fire Equipment Decon Plan 04.12.2019 with attachments.pdf; 2nd 80s Fire Equipment Decon Plan_TCEQ Comments.pdf

From: Jason Ybarra
Sent: Sunday, April 14, 2019 1:00 PM
To: spill12 <spill12@tceq.texas.gov>; Adams.Adam@epa.gov
Cc: Kelly Cook <kelly.cook@tceq.texas.gov>; Bob Patton <bob.patton@tceq.texas.gov>; Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>
Subject: FW: 2nd 80s Fire Equipment Decon Plan, 04/12/2019 for UC approval

State and Federal OSCs,

The attachment constitutes the TCEQ's response to ITC's proposed 2nd 80's Fire Deer Park, **Equipment Decontamination Plan, 04/12/2019** submitted by Intercontinental Terminals Company – Deer Park. The TCEQ may provide supplemental responses or requests for information at its discretion.

Please let us know if you have any questions or need additional details.

From: spill12
Sent: Friday, April 12, 2019 7:11 PM
To: Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Guadalupe Quiroz <guadalupe.quiroz@tceq.texas.gov>
Subject: FW: 2nd 80s Fire Equipment Decon Plan for UC approval

All,

Please see the attached updated decon plan and provide comments as needed.

-Kendra

From: Helen Dubach
Sent: Friday, April 12, 2019 5:37 PM
To: Adams, Adam <Adams.Adam@epa.gov>; spill12 <spill12@tceq.texas.gov>
Cc: Dustin White <dwhite@responsegroupinc.com>; rhenry@chgms.com; moore.gary@epa.gov
Subject: 2nd 80s Fire Equipment Decon Plan for UC approval

Please find attached the Equipment Decon Plan for approval.

Special thanks to Nicole Weist of TCEQ for spending half the day with myself, Decon Ops personnel, and our Sampling Specialist working through TCEQ's comments on the draft plan and getting this finalized.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com |www.ctehrm.com

Message

From: Tasha Rios [trios@responsegroupinc.com]
Sent: 4/9/2019 12:15:31 AM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: 215e Environmental Analysis
Attachments: 215E.PDF

Gary,

Here is the 215e Environmental Analysis that you have requested.

Message

From: William Irwin [William.Irwin@tpwd.texas.gov]
Sent: 4/17/2019 11:25:44 PM
To: Helen Dubach [hdubach@ctehrm.com]
CC: Andy Smith [Andy.Smith@tpwd.texas.gov]; Heather Biggs [Heather.Biggs@tpwd.texas.gov]; Alex Nunez [Alex.Nunez@tpwd.texas.gov]; Stephanie Croatt [Stephanie.Croatt@tpwd.texas.gov]; Mike Stovall [Mike.Stovall@tpwd.texas.gov]; Moore, Gary [Moore.Gary@epa.gov]; spill12 [spill12@tceq.texas.gov]; Stamper, Tony [tstamper@nrcc.com]; Boutwell, James [JBoutwell@nrcc.com]; rfrancis@teichmangroup.com; Reid McLelland [RMcLelland@iterm.com]; Paige.Doelling@noaa.gov; craig.cook@glo.texas.gov
Subject: Re: Battleship Assessment and Cleanup Plan

Thank you Helen.

Bill Irwin
San Jacinto SHS
Sent from my iPhone

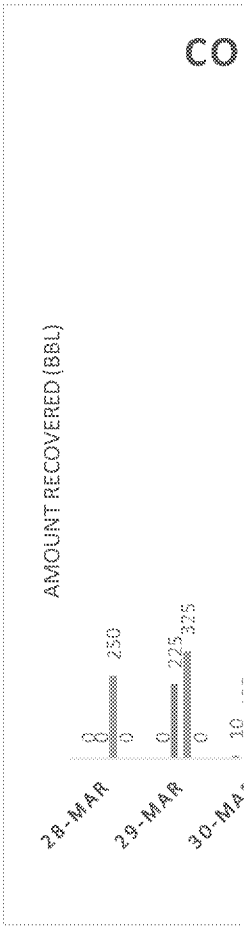
On Apr 17, 2019, at 10:38 AM, Helen Dubach <hdubach@ctehrm.com> wrote:

> Hi folks,
>
> Sorry I couldn't make it to the meeting at the Battleship yesterday. I hear it was productive. I have been tasked with pulling the plan together, with input from TPWD and contractors. I propose that we address this plan in three parts, basic overview as follows:
>
> 1) Assessment
>   a. Development of plan for assessment of the Battleship
>   b. Internal assessment – air monitoring
>   c. External assessment - visual SCAT-type survey for released material and other impacts
>   d. Documentation of monitoring and assessment
>   e. Endpoint determination and agreement
>   f. Identification and agreement of appropriate cleanup methods
>
> 2) Cleanup
>   a. Development of cleanup plan based on assessment, endpoints and agreed methods
>   b. Implementation of Cleanup Plan and monitoring
>
> 3) Post-Cleanup assessment and closure
>   a. Post-cleanup assessment survey
>   b. Documentation
>   c. Closure/Sign-off
>
> Please review and let me have your input for:
> - any key components missed in the above, or edits
> - which parties/personnel should be involved for each step
>
> I propose a meeting early next week (Tuesday?) to get started on Part 1.
>
> Cheers,
>
> **Helen Dubach**
> Senior Consultant and Manager, Readiness

CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com |www.ctehrm.com

Division A

Date:	Amount Recovered	Date:	Total/Day
30-Mar	10	28-Mar	0
1-Apr	25	29-Mar	0
2-Apr	13	30-Mar	10
2-Apr	52	31-Mar	25
3-Apr	50	1-Apr	65
4-Apr	30	2-Apr	52
4-Apr	542	3-Apr	50
5-Apr	670	4-Apr	572
6-Apr	1600	5-Apr	670
7-Apr	0	6-Apr	1600
8-Apr	550	7-Apr	0
		8-Apr	550
		9-Apr	
		10-Apr	
		11-Apr	

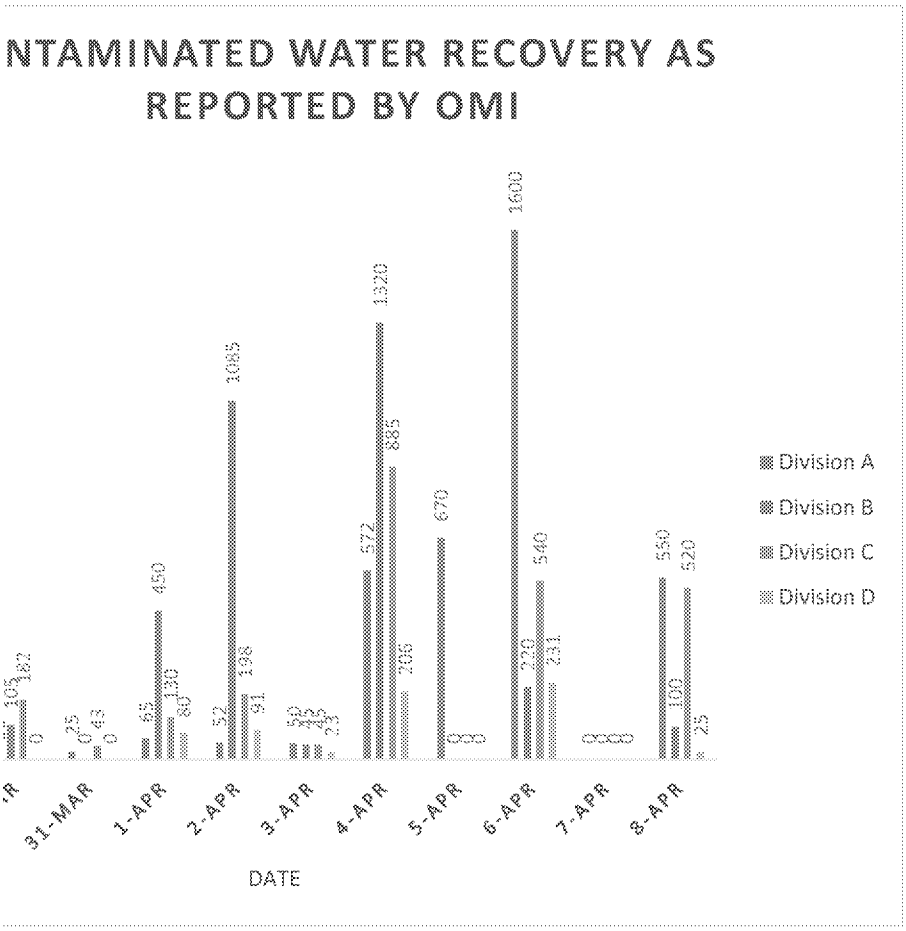


Divison B

Date:	Amount Recovered	Date:	Total/Day
29-Mar	120	28-Mar	0
29-Mar	55	29-Mar	225
29-Mar	50	30-Mar	105
30-Mar	105	31-Mar	0
1-Apr	450	1-Apr	450
2-Apr	203	2-Apr	1085
2-Apr	882	3-Apr	45
3-Apr	45	4-Apr	1320
4-Apr	190	5-Apr	0
4-Apr	54	6-Apr	220
4-Apr	900	7-Apr	0
4-Apr	176	8-Apr	100
5-Apr	0	9-Apr	
6-Apr	220	10-Apr	
7-Apr	0	11-Apr	
8-Apr	100	12-Apr	

Division C/D

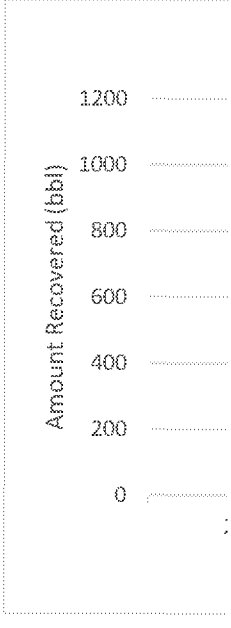
			Div C		Div D	
Date:	Amount Recovered:	Divison:	Date:	Total/Day:	Date:	Total/Day:
28-Mar	250	C	28-Mar	250	28-Mar	0
29-Mar	85	C	29-Mar	325	29-Mar	0
29-Mar	145	C	30-Mar	182	30-Mar	0


NTAMINATED WATER RECOVERY AS REPORTED BY OMI
Division A
Division B
Division C
Division D
DATE
31-MAR
1-APR
2-APR
3-APR
4-APR
5-APR
6-APR
7-APR
8-APR
105
182
0
25
0
43
0
65
450
130
80
32
1085
198
91
30
43
33
572
1320
885
206
670
8
8
1600
230
540
231
0
0
0
530
100
25
520

29-Mar	95	C	31-Mar	43	31-Mar	0
30-Mar	57	C	1-Apr	130	1-Apr	80
30-Mar	125	C	2-Apr	198	2-Apr	91
31-Mar	38	C	3-Apr	45	3-Apr	23
31-Mar	5	C	4-Apr	885	4-Apr	206
1-Apr	130	C	5-Apr	0	5-Apr	0
1-Apr	80	D	6-Apr	540	6-Apr	231
2-Apr	75	C	7-Apr	0	7-Apr	0
2-Apr	18	D	8-Apr	520	8-Apr	25
2-Apr	73	D	9-Apr		9-Apr	
2-Apr	123	C	10-Apr		10-Apr	
3-Apr	45	C	11-Apr		11-Apr	
3-Apr	23	D	12-Apr		12-Apr	
4-Apr	60	C				
4-Apr	60	D				
4-Apr	885	C				
4-Apr	206	D				

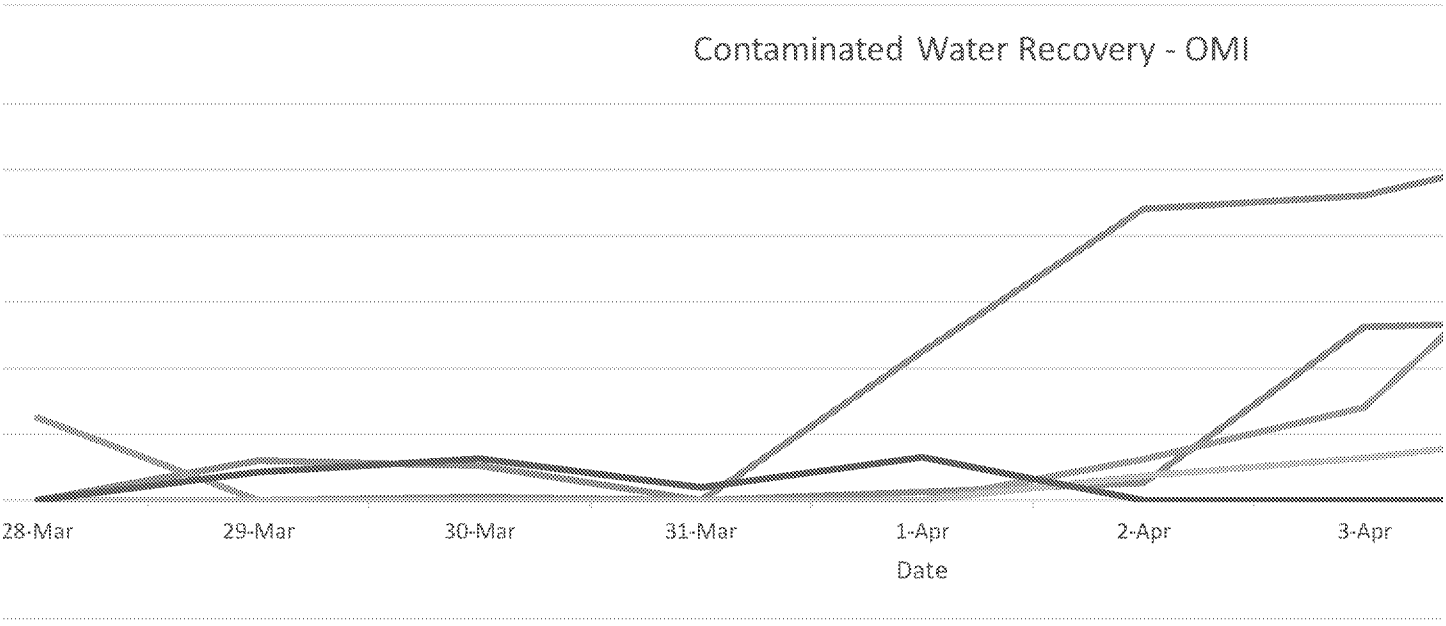
OMI

Date:	Division A
Before 3/28	-
28-Mar	0
29-Mar	0
30-Mar	10
31-Mar	0
1-Apr	25
2-Apr	53
3-Apr	525
4-Apr	542
5-Apr	670
6-Apr	



note:

Division B
-
0
120
105
0
450
882
923
1076
0

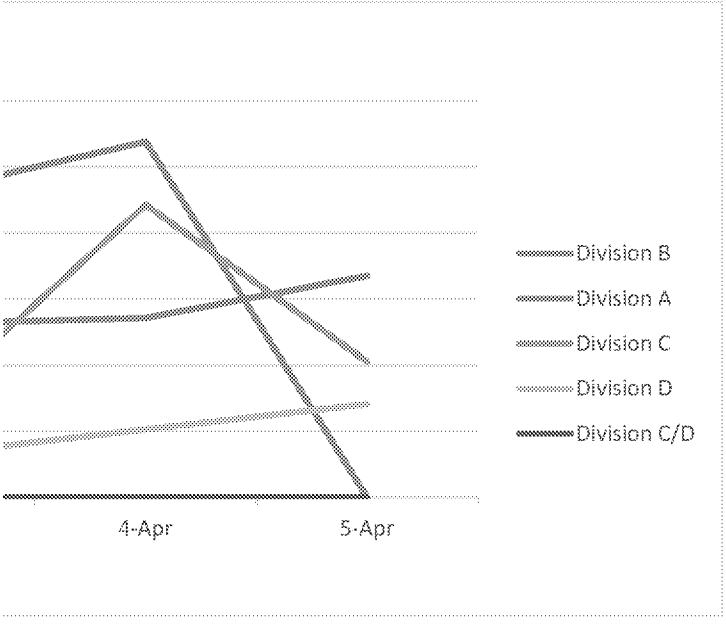


4/5/19 totals were 0 due to Water Operations being shut down for safety reasons while a barge was transported out of S

Division C	Divison D	Division C/D	Division E	Total: bbl
-	-	-	-	174
250	0	-	-	250
-	-	85	-	205
-	-	125	-	240
-	-	38	-	38
-	-	130	-	605
123	73	-	-	1131
280	127	-	-	1855
885	206	-	-	2709
410	282	-	-	1362
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				8395

NRC

Date:	Division A	Division B	Division C	Divison D
25-Mar	98			
26-Mar		76		
1-Apr				
2-Apr				
3-Apr				
4-Apr				
5-Apr				
6-Apr	200	52	240	-



an Jacinto Port

MSRC

Division C/D	Division E	Total: bbl

- - -

Division A

Date:	Amount Recovered	Date:	Total/Day
30-Mar	10	28-Mar	0
1-Apr	25	29-Mar	0
2-Apr	13	30-Mar	10
2-Apr	52	31-Mar	25
3-Apr	50	1-Apr	65
4-Apr	30	2-Apr	52
4-Apr	542	3-Apr	50
5-Apr	670	4-Apr	572
		5-Apr	670
		6-Apr	
		7-Apr	
		8-Apr	
		9-Apr	
		10-Apr	
		11-Apr	

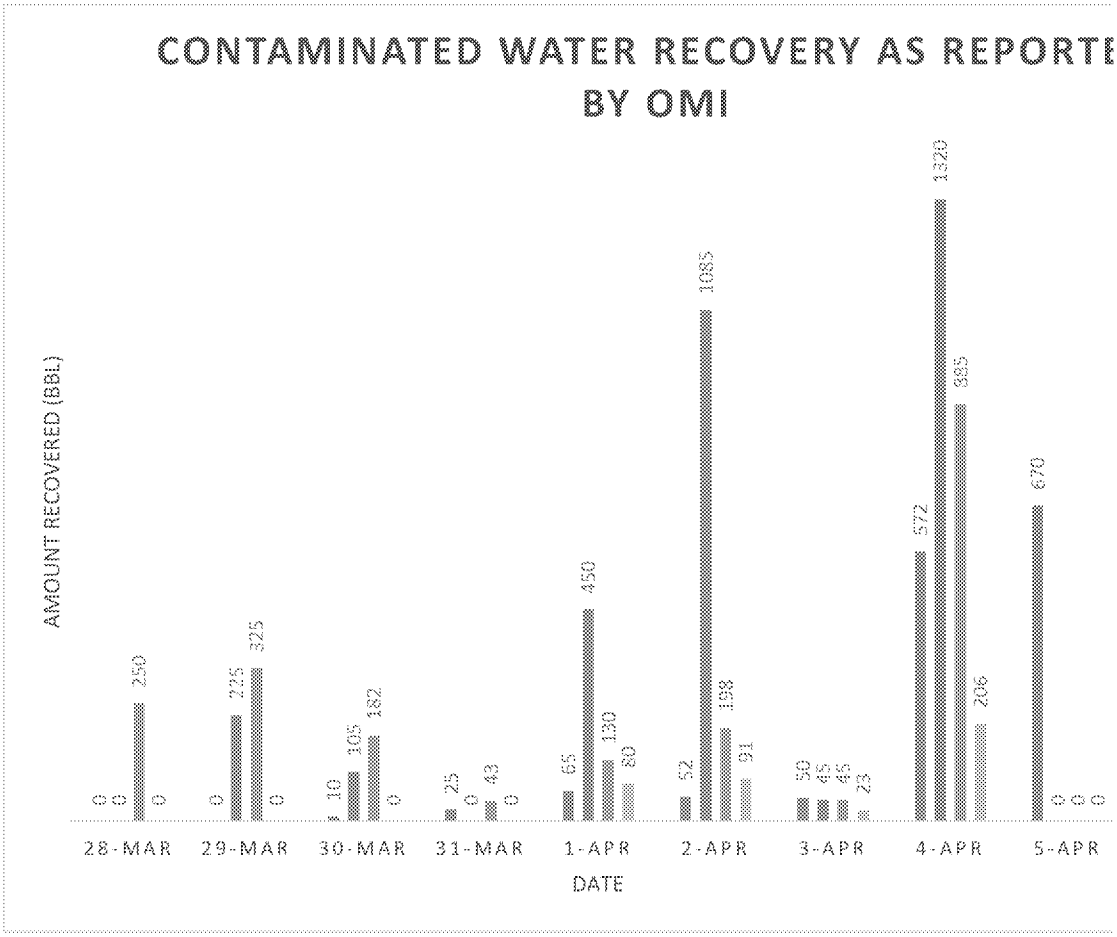
Divison B

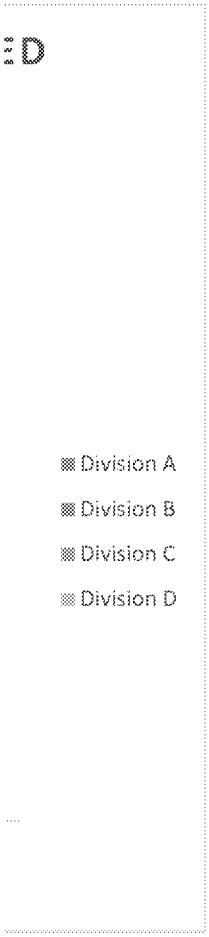
Date:	Amount Recovered	Date:	Total/Day
29-Mar	120	28-Mar	0
29-Mar	55	29-Mar	225
29-Mar	50	30-Mar	105
30-Mar	105	31-Mar	0
1-Apr	450	1-Apr	450
2-Apr	203	2-Apr	1085
2-Apr	882	3-Apr	45
3-Apr	45	4-Apr	1320
4-Apr	190	5-Apr	0
4-Apr	54	6-Apr	
4-Apr	900	7-Apr	
4-Apr	176	8-Apr	
		9-Apr	
		10-Apr	
		11-Apr	
		12-Apr	

Division C/D

			Div C		Div D	
Date:	Amount Recovered:	Divison:	Date:	Total/Day:	Date:	Total/Day:
28-Mar	250	C	28-Mar	250	28-Mar	0
29-Mar	85	C	29-Mar	325	29-Mar	0
29-Mar	145	C	30-Mar	182	30-Mar	0

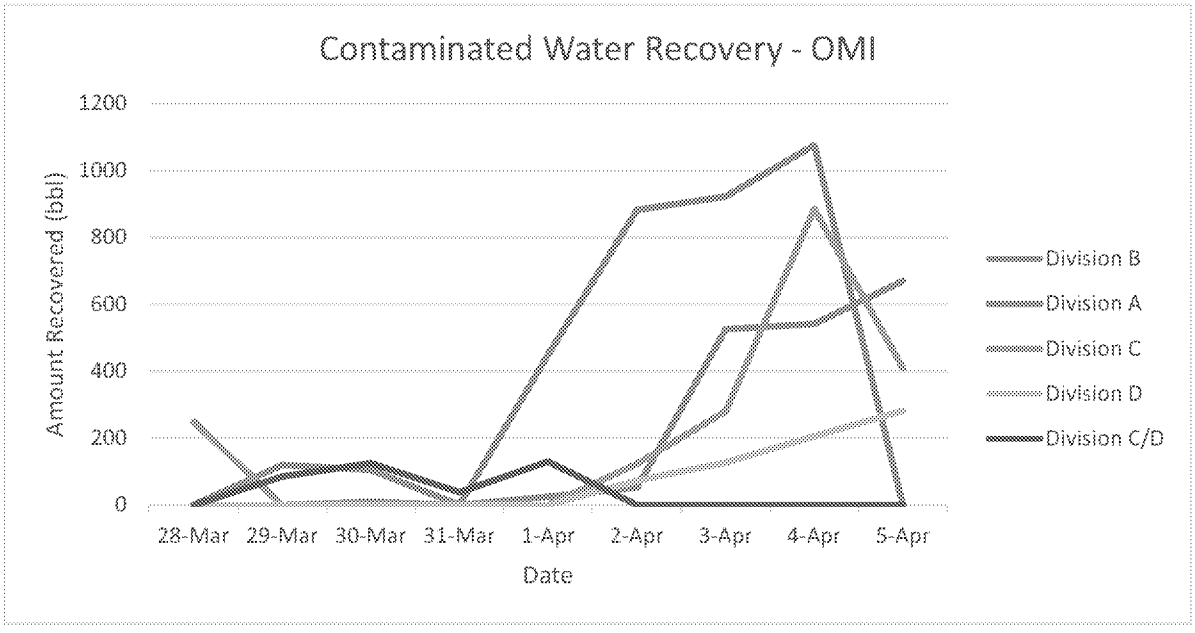
29-Mar	95	C	31-Mar	43	31-Mar	0
30-Mar	57	C	1-Apr	130	1-Apr	80
30-Mar	125	C	2-Apr	198	2-Apr	91
31-Mar	38	C	3-Apr	45	3-Apr	23
31-Mar	5	C	4-Apr	885	4-Apr	206
1-Apr	130	C	5-Apr	0	5-Apr	0
1-Apr	80	D	6-Apr		6-Apr	
2-Apr	75	C	7-Apr		7-Apr	
2-Apr	18	D	8-Apr		8-Apr	
2-Apr	73	D	9-Apr		9-Apr	
2-Apr	123	C	10-Apr		10-Apr	
3-Apr	45	C	11-Apr		11-Apr	
3-Apr	23	D	12-Apr		12-Apr	
4-Apr	60	C				
4-Apr	60	D				
4-Apr	885	C				
4-Apr	206	D				


CONTAMINATED WATER RECOVERY AS REPORTE
BY OMI
AMOUNT RECOVERED (BBL)
0
0
250
0
225
325
0
10
105
182
0
25
0
43
0
65
450
130
80
52
1085
158
91
50
45
45
23
572
1320
985
206
670
0
0
0
28-MAR
29-MAR
30-MAR
31-MAR
1-APR
2-APR
3-APR
4-APR
5-APR
DATE


D
Division A
Division B
Division C
Division D

OMI

Date:	Division A	Division B	Division C	Divison D	Division C/D	Division E	Total: bbl
Before 3/28	-	-	-	-	-	-	174
28-Mar	0	0	250	0	-	-	250
29-Mar	0	120	-	-	85	-	205
30-Mar	10	105	-	-	125	-	240
31-Mar	0	0	-	-	38	-	38
1-Apr	25	450	-	-	130	-	605
2-Apr	53	882	123	73	-	-	1131
3-Apr	525	923	280	127	-	-	1855
4-Apr	542	1076	885	206	-	-	2709
5-Apr	670	0	410	282	-	-	1362
6-Apr							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							8395



note: 4/5/19 totals were 0 due to Water Operations being shut down for safety reasons whil

NRC

Date:	Division A	Division B	Division C	Divison D	Division C/D	Division E	Total: bbl
25-Mar	98						
26-Mar		76					
1-Apr							
2-Apr							
3-Apr							
4-Apr							
5-Apr							
6-Apr	200	52	240	-	-	-	-

e a barge was transported out of San Jacinto Port

MSRC

Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/8/2019 7:07:04 PM
To: Stamper, Tony [tstamper@nrcc.com]
Subject: Re: Observations 4 8 2019 AM 0900

Thank you

Sent from my iPhone

On Apr 8, 2019, at 12:53 PM, Stamper, Tony <tstamper@nrcc.com> wrote:

> Yes, indicate if actions are being taken.
>
> I did not see any flushing this morning from Dow or Clean Harbors but will check it out.
>
> Tony Stamper
>
> **Tony Stamper**
> Branch Manager
> - - - - - - - - - - - - - - - - - - -
> www.nrcc.com | tstamper@nrcc.com
>
> <NRC_LOGO_ff202020-c6fc-4205-bf68-a44c34a6cc04.png>
> - - - - - - - - - - - - - - - - - - -
> 1700 North E Street
> La Porte, TX 77571
> United States
> 24 Hour Emergency Service: 1 (800) 899-4672
>
> ---
>
> **From:** Moore, Gary <Moore.Gary@epa.gov>
> **Sent:** Monday, April 8, 2019 12:46:23 PM
> **To:** Stamper, Tony
> **Subject:** Fwd: Observations 4 8 2019 AM 0900
>
> **This email came from an external source, please take caution when interacting with it.**
>
> ---
>
> Hello Tony,
>
> On the negative items could you indicate if actions are being taken to address.
>
> Also, I was told that DOW is flushing in the area behind Clean Harbors but I am not sure if Clean Harbors is flushing. I was told clean Harbors did not have much volume to flush with by our person.
>
> Gary
>
> Sent from my iPhone
>
> Begin forwarded message:

From: "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>
Date: April 8, 2019 at 11:07:36 AM CDT
To: "Martin, John" <martin.john@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>
Cc: "Moore, Gary" <Moore.Gary@epa.gov>
Subject: FW: Observations 4 8 2019 AM 0900

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Monday, April 8, 2019 10:07 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Subject: FW: Observations 4 8 2019 AM 0900

From: Troy C Johnson <troy.c.johnson@ici.com>
Sent: Monday, April 8, 2019 10:03 AM
To: Kelly Cook <kelly.cook@tceq.texas.gov>; Jeff Kunze <jeff.kunze@tceq.texas.gov>; Anthony Buck <Anthony.Buck@tceq.texas.gov>
Cc: Stamper, Tony <tstamper@nrcc.com>
Subject: Observations 4 8 2019 AM 0900

Fire & Tank Farm Positive:

- Adequate fire protection around perimeter of tank farm but not a complete ring.
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- Tank 6 manways are open front and back
- Pipe leak between tanks 6 and 1 near loading rack has stopped.
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Fire & Tank Farm Negative:

- VOC and Benzene emissions coming from leaking manifolds and piping

Environmental Positive:

- Ditch and Tucker Bayou at Tidal Rd looks better but still needs a lot of work. This is becoming less of a source of benzene
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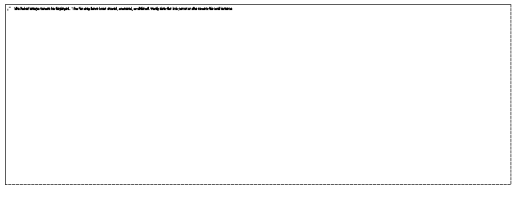
- Large amount of product at Avenue J and Tidal rd.

If you have any questions please let us know.

Attention My new Email address is;
troy.c.johnson@jci.com

Troy Johnson / Territory Manager / JCI / Williams Operations
/ Mobile: +1 704 677 0947 / Fax: +1 409-971-4196 /
24 Hour Emergency Number: 409-727-2347
9605 Richard Wycoff Drive / Port Arthur, TX 77640 / USA
troy.c.johnson@jci.com /www.williamsfire.com



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Message

From: Stamper, Tony [tstamper@nrcc.com]
Sent: 4/8/2019 5:52:56 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: Re: Observations 4 8 2019 AM 0900

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I did not see any flushing this morning from Dow or Clean Harbors but will check it out.

Tony Stamper

Tony Stamper
Branch Manager
- - - - - - - - - - - - - - - - - - -
www.nrcc.com | tstamper@nrcc.com

NRC
- - - - - - - - - - - - - - - - - - -
1700 North E Street
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Cc: Stamper, Tony <tstamper@nrcc.com>
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24 Hour Emergency Number: 409-727-2347
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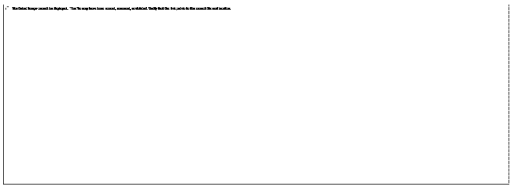

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Sent: 4/8/2019 5:46:23 PM
To: tstamper@nrcc.com
Subject: Fwd: Observations 4 8 2019 AM 0900
Attachments: image002.png; ATT00001.htm; image003.png; ATT00002.htm; SWS - Williams Tank Update 4 8 2019 0900.xlsx; ATT00003.htm

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24 Hour Emergency Number: 409-727-2347
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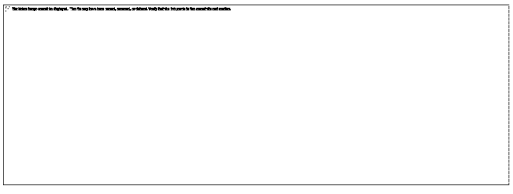

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Message

From: Lee Ellmaker [lee.ellmaker@mecx.net]
Sent: 4/8/2019 5:39:42 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: FW: Contaminated Water Recovery as reported by OMI
Attachments: ITC Fire - Contaminated Water Recovery (OMI).xlsx

Here is Brandon's spreadsheet with recovery volume estimates.

Regards,

Lee Ellmaker, P.E. | Engineer | MEC^X
Mobile: 775.771.8419
Office: 713.585.7000 x 7009
Fax: 713.585.7049

8864 Interchange Drive | Houston, Texas 77054
A Service-Disabled Veteran-Owned Small Business
lee.ellmaker@mecx.net | http://www.mecx.net

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From: "Berger, Brandon" <Brandon.Berger@WestonSolutions.com>
Date: Monday, April 8, 2019 at 12:01 PM
To: "robertson.david@epa.gov" <robertson.david@epa.gov>, Lee Ellmaker <lee.ellmaker@mecx.net>
Subject: Contaminated Water Recovery as reported by OMI

Here's the Contaminated Water Recovery as reported by OMI 3/28-4/5

Brandon Berger
Emissions Testing Specialist I
12660 Moon Rd.
Willis, Tx, 77318

Cell: 830-660-9494
Office: 713-360-3943 (Ext. 1)
Fax: 713-985-6703
Brandon.Berger@westonsolutions.com

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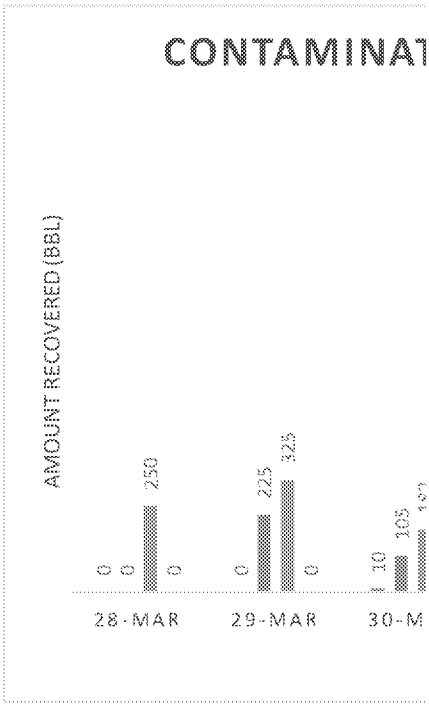
Division A

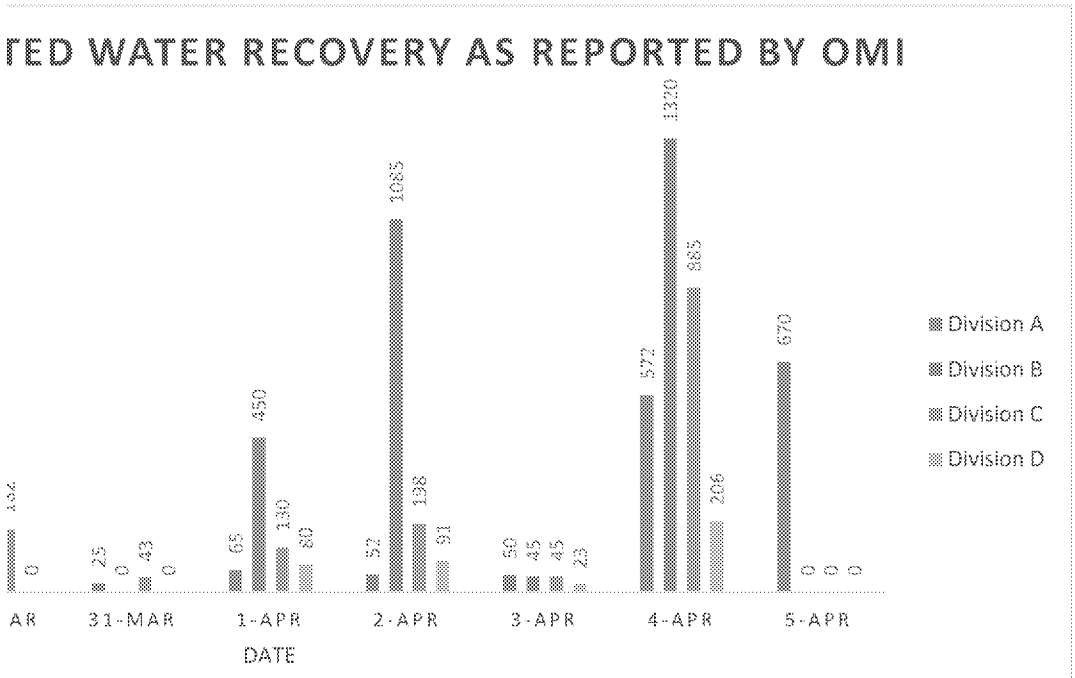
Date:	Amount Recovered	Date:	Total/Day
30-Mar	10	28-Mar	0
1-Apr	25	29-Mar	0
2-Apr	13	30-Mar	10
2-Apr	52	31-Mar	25
3-Apr	50	1-Apr	65
4-Apr	30	2-Apr	52
4-Apr	542	3-Apr	50
5-Apr	670	4-Apr	572
		5-Apr	670

Divison B

Date:	Amount Recovered	Date:	Total/Day
29-Mar	120	28-Mar	0
29-Mar	55	29-Mar	225
29-Mar	50	30-Mar	105
30-Mar	105	31-Mar	0
1-Apr	450	1-Apr	450
2-Apr	203	2-Apr	1085
2-Apr	882	3-Apr	45
3-Apr	45	4-Apr	1320
4-Apr	190	5-Apr	0
4-Apr	54		
4-Apr	900		
4-Apr	176		



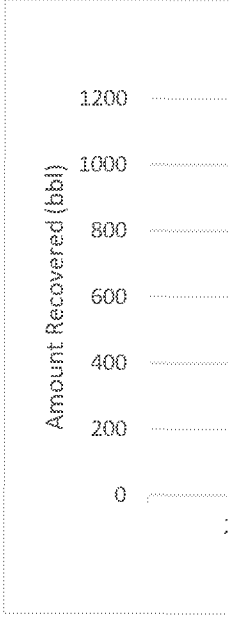
Division C/D			Div C		Div D	
Date:	Amount Recovered:	Divison:	Date:	Total/Day:	Date:	Total/Day:
28-Mar	250	C	28-Mar	250	28-Mar	0
29-Mar	85	C	29-Mar	325	29-Mar	0
29-Mar	145	C	30-Mar	182	30-Mar	0
29-Mar	95	C	31-Mar	43	31-Mar	0
30-Mar	57	C	1-Apr	130	1-Apr	80
30-Mar	125	C	2-Apr	198	2-Apr	91
31-Mar	38	C	3-Apr	45	3-Apr	23
31-Mar	5	C	4-Apr	885	4-Apr	206
1-Apr	130	C	5-Apr	0	5-Apr	0
1-Apr	80	D				
2-Apr	75	C				
2-Apr	18	D				
2-Apr	73	D				
2-Apr	123	C				
3-Apr	45	C				
3-Apr	23	D				
4-Apr	60	C				
4-Apr	60	D				
4-Apr	885	C				


TED WATER RECOVERY AS REPORTED BY OMI
0
25
0
43
0
65
450
130
80
52
1085
138
91
50
45
45
28
572
1320
883
206
670
0
0
0
AR
31-MAR
1-APR
2-APR
3-APR
4-APR
5-APR
DATE
Division A
Division B
Division C
Division D

4-Apr 206 D

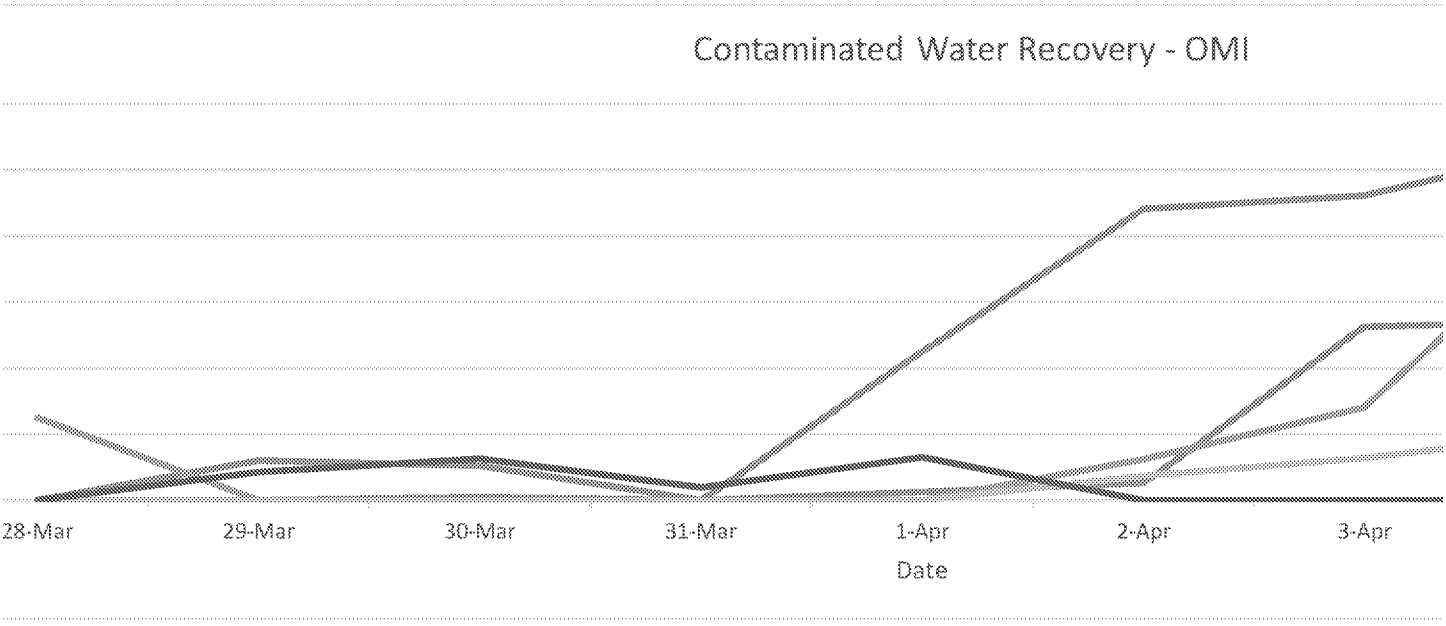
OMI

Date:	Division A
Before 3/28	-
28-Mar	0
29-Mar	0
30-Mar	10
31-Mar	0
1-Apr	25
2-Apr	53
3-Apr	525
4-Apr	542
5-Apr	670
6-Apr	



note:

Division B
-
0
120
105
0
450
882
923
1076
0

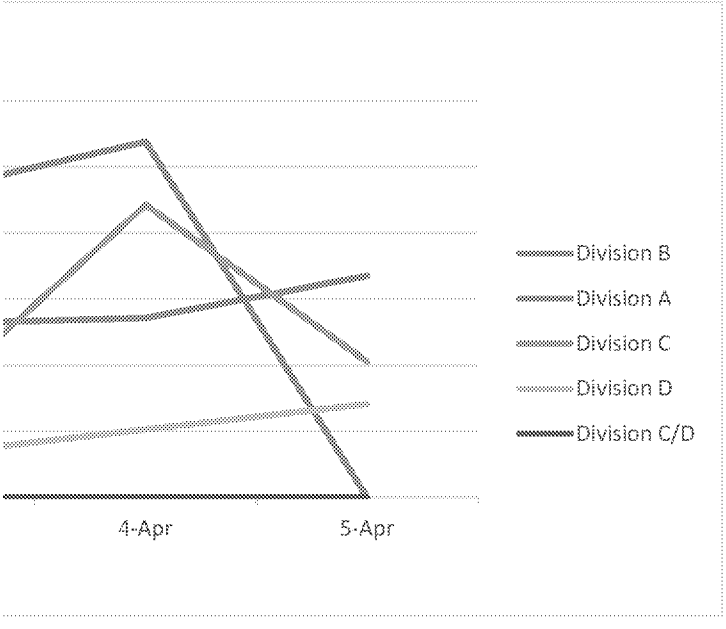


4/5/19 totals were 0 due to Water Operations being shut down for safety reasons while a barge was transported out of S

Division C	Divison D	Division C/D	Division E	Total: bbl
-	-	-	-	174
250	0	-	-	250
-	-	85	-	205
-	-	125	-	240
-	-	38	-	38
-	-	130	-	605
123	73	-	-	1131
280	127	-	-	1855
885	206	-	-	2709
410	282	-	-	1362
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				8395

NRC

Date:	Division A	Division B	Division C	Divison D
25-Mar	98			
26-Mar		76		
1-Apr				
2-Apr				
3-Apr				
4-Apr				
5-Apr				
6-Apr	200	52	240	-



an Jacinto Port

MSRC

Division C/D	Division E	Total: bbl

- - -

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
Flow	Report, MGD	0.300 MGD	1/day	Record
Carbonaceous Biochemical Oxygen Demand (5-day)	N/A	19800		
Chemical Oxygen Demand	N/A	55000	1/day	Composite
Total Organic Carbon	N/A	Report	1/day	Composite
Oil & Grease	N/A	10100	1/day	Grab
Total Dissolved Solids	N/A	Report	1/day	Composite
Chloride	N/A	Report	1/day	Composite
Perfluoro-n-octane Sulfonate	N/A	Report	1/day	Composite
Enterococci	N/A	104	1/day	Grab
Cyanide, Free (*1)	N/A	2.2	1/day	Grab
Arsenic, Total	N/A	62.0	1/day	Composite
Cadmium, Total	N/A	7.00	1/day	Composite
Chromium, Hexavalent	N/A	44.4	1/day	Grab
Chromium, Total	N/A	190	1/day	Composite
Cobalt, Total	N/A	16700	1/day	Composite
Copper, Total	N/A	5.7	1/day	Composite
Lead, Total	N/A	11.0	1/day	Composite
Mercury, Total	N/A	0.015	1/day	Composite
Nickel, Total	N/A	11.0	1/day	Composite
Selenium, Total	N/A	121	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
Silver, Total	N/A	2.18	1/day	Composite
Thallium, Total	N/A	0.314	1/day	Composite
Tin, Total	N/A	150	1/day	Composite
Zinc, Total	N/A	70.0	1/day	Composite
1,1,1,2-Tetrachloroethane	N/A	21.0	1/day	Composite
1,1,1-Trichloroethane	N/A	7100	1/day	Composite
1,1,2,2-Tetrachloroethane	N/A	26.35	1/day	Composite
1,1,2-Trichlor-1,2,2-trifluoroethane	N/A	6040000	1/day	Composite
1,1,2-Trichloroethane	N/A	21.0	1/day	Composite
1,1´-Biphenyl	N/A	3520	1/day	Composite
1,1-Dichloroethane	N/A	22.0	1/day	Composite
1,1-Dichloroethylene [1,1-Dichloroethene]	N/A	16.0	1/day	Composite
1,1-Dichloropropene	N/A	62200	1/day	Composite
1,2,3-Trichlorobenzene	N/A	171	1/day	Composite
1,2,3-Trichloropropane	N/A	165	1/day	Composite
1,2,4,5-Tetrachlorobenzene	N/A	0.328	1/day	Composite
1,2,4-Trichlorobenzene	N/A	0.076	1/day	Composite
1,2,4-Trimethylbenzene	N/A	217	1/day	Composite
1,2-Dibromo-3-chloropropane	N/A	11300	1/day	Composite
1,2-Dibromoethane	N/A	4.24	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
1,2-Dibromoethane [Ethylene Dibromide]	N/A	5.79	1/day	Composite
1,2-Dichloroethane	N/A	68.0	1/day	Composite
1,2-Dichloropropane	N/A	153	1/day	Composite
1,2-Diphenylhydrazine	N/A	2.00	1/day	Composite
1,2-*trans*-Dichloroethylene	N/A	21.0	1/day	Composite
1,3,5-Trimethylbenzene	N/A	3050	1/day	Composite
1,3-Dichloropropene [1,3-Dichloropropylene]	N/A	29.0	1/day	Composite
2,2-Dichloropropane	N/A	163	1/day	Composite
2,2'-Oxybis(1-chloropropane)	N/A	181	1/day	Composite
2,4,5 Trichlorophenol	N/A	10.7	1/day	Composite
2,4,5-TP [Silvex]	N/A	504	1/day	Composite
2,4,5-Trichlorophenol	N/A	12.0	1/day	Composite
2,4,6-Trichlorophenol	N/A	28.0	1/day	Composite
2,4-Dichlorophenol	N/A	39.0	1/day	Composite
2,4-Dimethylphenol	N/A	18.0	1/day	Composite
2,4-Dinitrophenol	N/A	71.0	1/day	Composite
2,4-Dinitrotoluene	N/A	17.0	1/day	Composite
2,6-Dinitrotoluene	N/A	30.0	1/day	Composite
2-Butanone	N/A	1650	1/day	Composite
2-Chloronaphthalene	N/A	1000	1/day	Composite
2-Chlorophenol	N/A	31.0	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
2-Hexanone	N/A	33400	1/day	Composite
2-Methylnaphthalene	N/A	30.0	1/day	Composite
2-Methylphenol	N/A	510	1/day	Composite
2-Nitroaniline	N/A	136	1/day	Composite
2-Nitrophenol	N/A	41.0	1/day	Composite
3&4-Methylphenol	N/A	9301	1/day	Composite
3,3'-Dichlorobenzidine	N/A	2.24	1/day	Composite
3,4-Benzofluoranthene	N/A	23.0	1/day	Composite
3-Nitroaniline	N/A	177	1/day	Composite
4,4'-DDD	N/A	0.00273	1/day	Composite
4,4'-DDE	N/A	0.000177	1/day	Composite
4,4'-DDT	N/A	0.000546	1/day	Composite
4,4'-Isopropylidenediphenol [Bisphenol A]	N/A	21848	1/day	Composite
4,6-Dinitro-2-methylphenol	N/A	1100	1/day	Composite
4,6-Dinitro-*o*-cresol	N/A	78.0	1/day	Composite
4-Chloro-3-methylphenol	N/A	870	1/day	Composite
4-Chloroaniline	N/A	2140	1/day	Composite
4-Methyl-2-pentanone	N/A	61500	1/day	Composite
4-Nitroaniline	N/A	966	1/day	Composite
4-Nitrophenol	N/A	72.0	1/day	Composite
Acenaphthene	N/A	22.0	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
Acenaphthylene	N/A	22.0	1/day	Composite
Acetone	N/A	7110	1/day	Composite
Acetophenone	N/A	50.0	1/day	Composite
Acrylonitrile	N/A	96.0	1/day	Composite
Aldrin	N/A	0.0000156	1/day	Composite
Ammonia Nitrogen	N/A	4960	1/day	Composite
Aniline	N/A	4690	1/day	Composite
Anthracene	N/A	0.18	1/day	Composite
Antimony	N/A	1464	1/day	Composite
Atrazine	N/A	55600	1/day	Composite
Benzaldehyde	N/A	42600	1/day	Composite
Benzene	N/A	37.0	1/day	Composite
Benzidine	N/A	0.146	1/day	Composite
Benzo(*a*)anthracene	N/A	0.025	1/day	Composite
Benzo(*a*)pyrene	N/A	0.0025	1/day	Composite
Benzo(b)fluoranthene	N/A	0.013	1/day	Composite
Benzo(*k*)fluoranthene	N/A	0.13	1/day	Composite
Benzoic Acid	N/A	0.29	1/day	Composite
Benzyl alcohol	N/A	0.29	1/day	Composite
Bis(2-chloroethoxy)methane	N/A	12300	1/day	Composite
Bis(2-chloroethyl)ether	N/A	58.5	1/day	Composite
Bis(2-chloroisopropyl)ether	N/A	181	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	N/A	7.55	1/day	Composite
Bis(chloromethyl)ether	N/A	0.375	1/day	Composite
Bromobenzene	N/A	4200	1/day	Composite
Bromochloromethane	N/A	26800	1/day	Composite
Bromodichloromethane [Dichlorobromomethane]	N/A	275	1/day	Composite
Bromoform [Tribromomethane]	N/A	1060	1/day	Composite
Butyl benzyl phthalate	N/A	80.0	1/day	Composite
Caprolactam	N/A	408000	1/day	Composite
Carbaryl	N/A	288	1/day	Composite
Carbazole	N/A	250	1/day	Composite
Carbon disulfide	N/A	34300	1/day	Composite
Carbon Tetrachloride	N/A	18.0	1/day	Composite
Chlordane	N/A	0.00341	1/day	Composite
Chlorobenzene	N/A	15.0	1/day	Composite
Chlorodibromomethane [Dibromochloromethane]	N/A	80.0	1/day	Composite
Chloroethane	N/A	104	1/day	Composite
Chloroform [Trichloromethane]	N/A	21.0	1/day	Composite
Chloromethane	N/A	13500	1/day	Composite
Chlorpyrifos	N/A	0.00517	1/day	Composite
Chrysene	N/A	2.52	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
cis-1,2-Dichloroethene (cis and trans)	N/A	1120	1/day	Composite
cis-1,2-Dichloroethylene	N/A	4180	1/day	Composite
cis-1,3-Dichloropropene	N/A	40.0	1/day	Composite
Cresols [Methylphenols]	N/A	12715	1/day	Composite
Cyclohexane	N/A	295000	1/day	Composite
Danitol [Fenpropathrin]	N/A	646	1/day	Composite
Demeton	N/A	0.0896	1/day	Composite
Diazinon	N/A	0.385	1/day	Composite
Dibenzo(a,h)anthracene	N/A	0.0013	1/day	Composite
Dibenzofuran	N/A	65.0	1/day	Composite
Dichlorodifluoromethane	N/A	37600	1/day	Composite
Dichloromethane [Methylene Chloride]	N/A	40.0	1/day	Composite
Dicofol [Kelthane]	N/A	0.41	1/day	Composite
Dieldrin	N/A	0.0000273	1/day	Composite
Diethyl phthalate	N/A	81.0	1/day	Composite
Dimethyl phthalate	N/A	19.0	1/day	Composite
Di-*n*-butyl phthalate	N/A	5.00	1/day	Composite
Dioxins/Furans [TCDD Equivalents]	N/A	0.000000108	1/day	Composite
Endosulfan I (alpha)	N/A	0.00807	1/day	Composite
Endosulfan II (beta)	N/A	0.00807	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
Endosulfan sulfate	N/A	0.00807	1/day	Composite
Endrin	N/A	0.00179	1/day	Composite
Epichlorohydrin	N/A	2751	1/day	Composite
Ethylbenzene	N/A	32.0	1/day	Composite
Ethylene Glycol	N/A	22967280	1/day	Composite
Fluoranthene	N/A	2.96	1/day	Composite
Fluorene	N/A	22.0	1/day	Composite
Guthion [Azinphos Methyl]	N/A	0.00896	1/day	Composite
Heptachlor	N/A	0.000136	1/day	Composite
Heptachlor Epoxide	N/A	0.000396	1/day	Composite
Hexachlorobenzene	N/A	0.00068	1/day	Composite
Hexachlorobutadiene	N/A	0.22	1/day	Composite
Hexachlorocyclohexane (alpha)	N/A	0.0114	1/day	Composite
Hexachlorocyclohexane (beta)	N/A	0.355	1/day	Composite
Hexachlorocyclohexane (gamma) [Lindane]	N/A	0.0752	1/day	Composite
Hexachlorocyclopentadiene	N/A	3.7	1/day	Composite
Hexachloroethane	N/A	2.33	1/day	Composite
Hexachlorophene	N/A	3.96	1/day	Composite
Indeno(1,2,3-cd)pyrene	N/A	0.013	1/day	Composite
Isophorone	N/A	650	1/day	Composite
Isopropylbenzene	N/A	8440	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
m,p-Xylene	N/A	24000	1/day	Composite
Malathion	N/A	0.00896	1/day	Composite
m-Dichlorobenzene [1,3-Dichlorobenzene]	N/A	31.0	1/day	Composite
Methoxychlor	N/A	0.0269	1/day	Composite
Methyl acetate	N/A	822000	1/day	Composite
Methyl bromide	N/A	600	1/day	Composite
Methyl Chloride	N/A	86.0	1/day	Composite
Methyl ethyl ketone (2-Butanone)	N/A	992000	1/day	Composite
Methyl tert-butyl ether [MTBE]	N/A	15.0	1/day	Composite
Methylcyclohexane	N/A	157000	1/day	Composite
Methylene bromide	N/A	4300	1/day	Composite
Methylnaphthalene	N/A	0.29	1/day	Composite
Mirex	N/A	0.000896	1/day	Composite
Naphthalene	N/A	22.0	1/day	Composite
n-Butylbenzene	N/A	1200	1/day	Composite
n-Decane	N/A	390	1/day	Composite
Nitrobenzene	N/A	27.0	1/day	Composite
N-Nitrosodiethylamine	N/A	2.87	1/day	Composite
n-Nitrosodimethylamine	N/A	30.0	1/day	Composite
N-Nitroso-di-n-Butylamine	N/A	5.74	1/day	Composite
N-Nitrosodi-n-propylamine	N/A	5.1	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
N-Nitrosodiphenylamine	N/A	60.0	1/day	Composite
n-Octadecane	N/A	0.29	1/day	Composite
Nonylphenol	N/A	1.52	1/day	Composite
n-Propylbenzene	N/A	2350	1/day	Composite
o-Chlorotoluene	N/A	2420	1/day	Composite
o-Cresol	N/A	500	1/day	Composite
o-Dichlorobenzene [1,2-Dichlorobenzene]	N/A	77.0	1/day	Composite
Total Petroleum Hydrocarbons	N/A	15000	1/day	Composite
o-Xylene	N/A	24000	1/day	Composite
p-Chlorotoluene	N/A	2120	1/day	Composite
p-Cresol	N/A	180	1/day	Composite
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	15.0	1/day	Composite
Pentachlorobenzene	N/A	0.485	1/day	Composite
Pentachlorophenol	N/A	0.29	1/day	Composite
Phenanthrene	N/A	3.62	1/day	Composite
Phenol	N/A	15	1/day	Composite
Phosphate (as PO4)	N/A	15000	1/day	Composite
p-Isopropyltoluene	N/A	3700	1/day	Composite
Polychlorinated Biphenyls [PCBs]	N/A	0.000874	1/day	Composite
Pyrene	N/A	0.24	1/day	Composite

Effluent Characteristics	Minimum Self-Monitoring Requirements			
	Daily Average	Daily Maximum	Report Daily Average and Daily Maximum	
	µg/L	µg/L	Measurement Frequency	Sample Type
Pyridine	N/A	0.29	1/day	Composite
sec-Butylbenzene	N/A	1580	1/day	Composite
Styrene	N/A	455	1/day	Composite
Sulfide (as S)	N/A	200	1/day	Composite
tert-Butylbenzene	N/A	1400	1/day	Composite
Tetrachloroethylene	N/A	0.29	1/day	Composite
Toluene	N/A	26.0	1/day	Composite
Total BTEX (*2)	N/A	140	1/day	Composite
Total Organic Nitrogen	N/A	6580	1/day	Composite
Total Purgeable Halocarbons	N/A	100	1/day	Composite
Total Suspended Solids	N/A	27300	1/day	Composite
Toxaphene	N/A	0.000179	1/day	Composite
trans-1,2-Dichloroethene	N/A	6950	1/day	Composite
trans-1,3-Dichloropropene	N/A	119	1/day	Composite
Tributyltin [TBT]	N/A	0.00663	1/day	Composite
Trichloroethylene [Trichloroethene]	N/A	21.0	1/day	Composite
Trichlorofluoromethane	N/A	43300	1/day	Composite
Vinyl Chloride	N/A	16.5	1/day	Composite
Xylenes, Total	N/A	850	1/day	Composite

1. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day by grab sample.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

3. Effluent monitoring samples shall be taken at the following location: At Outfall 002, at the point of discharge from the weir box into Tucker Bayou and just south of Tidal Road.

4. Unless otherwise specified, the results of effluent monitoring data shall be submitted each day, to David Galindo, Division Director, Water Quality Division, within twelve hours of the permittee having received the results from a National Environmental Laboratory Accreditation Certification (NELAC)-certified lab. Monitoring results must be signed and certified as required by 30 Texas Administrative Code (TAC) Section 305.44. The report must include all results from all required monitoring.

(*1) The approved analytical methods for cyanide include any procedure for total cyanide, weak acid dissociable cyanide, or cyanide amenable to chlorination from the latest edition of Standard Methods or in 40 CFR Part 136. An alternate test method may be used upon approval by the Executive Director.
(*2) Total BTEX shall be measured as the sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

Message

From: Art Saunders [Art.Saunders@cardno.com]
Sent: 4/17/2019 8:37:23 PM
To: Paige.Doelling@noaa.gov
CC: Moore, Gary [Moore.Gary@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 [Matthew.D.Tilimon@uscg.mil]; Kendra.bernhagen@tceq.texas.gov; Helen Dubach [hdubach@ctehrm.com]
Subject: RE: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

Great, thanks!

Art Saunders
BUSINESS UNIT LEADER, NATURAL RESOURCES NORTHEAST | SR. CONSULTANT / PRINCIPAL
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From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, April 17, 2019 2:33 PM
To: Art Saunders <Art.Saunders@cardno.com>
Cc: Gary Moore <moore.gary@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 <Matthew.D.Tilimon@uscg.mil>; Kendra.bernhagen@tceq.texas.gov; Helen Dubach <hdubach@ctehrm.com>
Subject: Re: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

Art,
I made one additional changes on the sampling sentence to clarify. It now reads:
Periodic sampling (for visual inspection) in areas (*e.g*, under docks) in areas not accessible for shore- or boat-based visual inspection methods

All changes have been accepted, final version attached.
Paige

On Wed, Apr 17, 2019 at 1:49 PM Art Saunders <Art.Saunders@cardno.com> wrote:

> Couple minor additions in tracked changes.

Art Saunders
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From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, April 17, 2019 12:49 PM
To: Gary Moore <moore.gary@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 <Matthew.D.Tilimon@uscg.mil>; Kendra.bernhagen@tceq.texas.gov; Art Saunders <Art.Saunders@cardno.com>; Helen Dubach <hdubach@ctehrm.com>
Subject: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

Hi all,

Attached is a draft P&M plan for San Jacinto Port Terminal and Carpenter's Bayou. Length of the P&M for San Jacinto Port Terminal is TBD, pending completion of recovery efforts and understanding what released material may remain.

P&M plans can be drafted for other segments if appropriate.

Art,

We can incorporate this into the body of SCAT documentation as you see appropriate.

Please let me and Art know if you have questions or comments,

Paige

--

Paige Doelling, PhD

NOAA Scientific Support Coordinator

for USCG District 8

Houston, TX

Mobile: 206-549-7819

--

Paige Doelling, PhD
NOAA Scientific Support Coordinator
for USCG District 8
Houston, TX
Mobile: 206-549-7819

Message

From: Paige Doelling - NOAA Federal [paige.doelling@noaa.gov]
Sent: 4/17/2019 7:32:47 PM
To: Art Saunders [Art.Saunders@cardno.com]
CC: Moore, Gary [Moore.Gary@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 [Matthew.D.Tilimon@uscg.mil]; Kendra.bernhagen@tceq.texas.gov; Helen Dubach [hdubach@ctehrm.com]
Subject: Re: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan
Attachments: Process for Moving SCAT Segments into PM_Final.docx

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>
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<Art.Saunders@cardno.com>; Helen Dubach <hdubach@ctehrm.com>
Subject: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

Hi all,

Attached is a draft P&M plan for San Jacinto Port Terminal and Carpenter's Bayou. Length of the P&M for San Jacinto Port Terminal is TBD, pending completion of recovery efforts and understanding what released material may remain.

P&M plans can be drafted for other segments if appropriate.

Art,

We can incorporate this into the body of SCAT documentation as you see appropriate.

Please let me and Art know if you have questions or comments,

Paige

--

Paige Doelling, PhD

NOAA Scientific Support Coordinator

for USCG District 8

Houston, TX

Mobile: 206-549-7819

--
Paige Doelling, PhD
NOAA Scientific Support Coordinator
for USCG District 8
Houston, TX

Mobile: 206-549-7819

Message

From: Art Saunders [Art.Saunders@cardno.com]
Sent: 4/17/2019 6:49:08 PM
To: Paige.Doelling@noaa.gov; Moore, Gary [Moore.Gary@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 [Matthew.D.Tilimon@uscg.mil]; Kendra.bernhagen@tceq.texas.gov; Helen Dubach [hdubach@ctehrm.com]
Subject: RE: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan
Attachments: Process for Moving SCAT Segments into PM_AWS.docx

Couple minor additions in tracked changes.

Art Saunders
BUSINESS UNIT LEADER, NATURAL RESOURCES NORTHEAST | SR. CONSULTANT / PRINCIPAL
PRINCIPAL - BIOLOGY
CARDNO

Direct +1 302 395 3361 Mobile +1 610 220 3957
Address 121 Continental Drive Suite 308, Newark , Delaware 19713
Email art.saunders@cardno.com Web www.cardno.com

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From: Paige Doelling - NOAA Federal <paige.doelling@noaa.gov>
Sent: Wednesday, April 17, 2019 12:49 PM
To: Gary Moore <moore.gary@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 <Matthew.D.Tilimon@uscg.mil>; Kendra.bernhagen@tceq.texas.gov; Art Saunders <Art.Saunders@cardno.com>; Helen Dubach <hdubach@ctehrm.com>
Subject: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan

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Paige Doelling, PhD
NOAA Scientific Support Coordinator
for USCG District 8
Houston, TX
Mobile: 206-549-7819

Process for Moving SCAT Segments into Patrol & Monitoring (P&M) Status

0418719

Prepared by: Paige Doelling, NOAA SSC

Rationale: Some segments in the response may meet cleanup endpoints, be close to meeting cleanup endpoints, and/or require no more active cleanup, but not be ready to be signed out of response due to concerns over sheening or potential for re-oiling from other sources (e.g., vessel traffic). These segments will be placed into a Patrol & Monitoring status for a period of time to ensure all free oil is recovered, and sheening does not affect sensitive resources or industrial activities.

P&M measures may include:

-Placement of passive clean up measures (*e.g.*, sorbent materials of some kind)

- Active retention of sheening or other releases (*e.g*, hard boom)

- Visual monitoring at proscribed intervals

- Periodic sampling (for visual inspection) in areas (*e.g*, under docks) in areas not amenable to visual inspection methods.

Duration of P&M and frequency of evaluations will be established for specific segments. Duration will be re-evaluated and adjusted if necessary.

Segments in P&M Status will be so designated on the SCAT Overview Map. They will be moved out of response upon completion of P&M. Completion of P&M will be recommended by Ops and/or SCAT, and formalized by an SIR inspection (if necessary), and/or submittal of an SIR form for UC signoff.

Areas To Be Place in P&M Status – Draft P&M Plan

San Jacinto Port Terminal – Due to concerns regarding full recovery of material under the dock.

Measures: Sorbent boom at dock to collect any released material migrating from under the dock to open water in the terminal. Hard boom staged at entrance to terminal to contain released material in the event of a substantial amount migrating.

Monitoring:

1) Daily measurement of released material thickness using oil/water interface meter for first week following termination of recovery efforts. Discontinue when no oil is

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detected. Decrease frequency of measurements following five (5) days of consistent measurements.

2) Daily visual inspection of sorbent boom to evaluate released material recovery. Replacement of boom as necessary.
3) Initial monitoring period is TBD (X) weeks following termination of recovery efforts. Length of monitoring period may be decreased in case of consistent negative results.

Carpenter's Bayou – Vessels from fleeting areas in Old River will be moved to fleeting areas in Carpenter's Bayou. P&M status to ensure areas are not re-contaminated.

Monitoring:

1) On water patrols to determine presence/absence of recoverable material or sheen following movement of vessels from contaminated area (primarily Old River) to Carpenter's Bayou. Hot shot crew on standby to recover oil if observed.
2) Conduct daily patrols for one (1) week following movement of last vessel from contaminated zone to Carpenter's Bayou.

Message

From: Paige Doelling - NOAA Federal [paige.doelling@noaa.gov]
Sent: 4/17/2019 5:49:17 PM
To: Moore, Gary [Moore.Gary@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Catherine.A.Phillips@uscg.mil; Tilimon, Matthew D MSSR2 [Matthew.D.Tilimon@uscg.mil]; Kendra.bernhagen@tceq.texas.gov; Art Saunders [Art.Saunders@cardno.com]; Helen Dubach [hdubach@ctehrm.com]
Subject: ITC Tank Fire/2nd 80s Fire - Patrol and Monitoring (P&M) Plan
Attachments: Process for Moving SCAT Segments into P&M.docx

Hi all,
Attached is a draft P&M plan for San Jacinto Port Terminal and Carpenter's Bayou. Length of the P&M for San Jacinto Port Terminal is TBD, pending completion of recovery efforts and understanding what released material may remain.

P&M plans can be drafted for other segments if appropriate.

Art,
We can incorporate this into the body of SCAT documentation as you see appropriate.

Please let me and Art know if you have questions or comments,

Paige

--
Paige Doelling, PhD
NOAA Scientific Support Coordinator
for USCG District 8
Houston, TX
Mobile: 206-549-7819

Message

From: Brent Weber [bweber@iterm.com]
Sent: 4/17/2019 4:47:22 PM
To: spill12 [spill12@tceq.texas.gov]; Moore, Gary [Moore.Gary@epa.gov]; 'Helen Dubach' [hdubach@ctehrm.com]
Subject: RE: Substance in ditch

This ditch collects all water from Hwy 225 to Tidal road on both sides of the Independence Parkway. This water could be coming from anywhere.

-----Original Message-----
From: spill12 [mailto:spill12@tceq.texas.gov]
Sent: Wednesday, April 17, 2019 10:39 AM
To: Brent Weber; moore.gary@epa.gov; 'Helen Dubach'
Subject: FW: Substance in ditch

All,

If we could please get some information on what is currently showing up along the ditch on Tidal Road. Our team observed it yesterday and today and think maybe the cleaning materials that are being used are some how escaping the tank farm. You can see the white film along the concrete that has formed that hadn't been seen before.

Thanks,
Kendra Bernhagen

-----Original Message-----
From: Jeff Kunze
Sent: Wednesday, April 17, 2019 10:23 AM
To: spill12 <spill12@tceq.texas.gov>
Subject: Substance in ditch

Kendra:

It has dissipated some from the surface but you can see the accumulation of something on the edges of the ditch. Just wondering what it is. It was released yesterday.
Call if needed.
Thanks.
JK

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/17/2019 4:01:38 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: FW: 4-17-19 AM Observations

Please share with ITC

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Wednesday, April 17, 2019 10:06 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Subject: FW: 4-17-19 AM Observations

FYI

From: Stamper, Tony <tstamper@nrcc.com>
Sent: Wednesday, April 17, 2019 8:52 AM
To: Kelly Cook <kelly.cook@tceq.texas.gov>; Anthony Buck <Anthony.Buck@tceq.texas.gov>; Jeff Kunze <jeff.kunze@tceq.texas.gov>; Christopher Wiatrek <christopher.wiatrek@tceq.texas.gov>; Cynthia Williams <Cynthia.D.Williams@tceq.texas.gov>
Cc: Herman L Ladner <herman.ladner@jci.com>
Subject: 4-17-19 AM Observations

Fire & Tank Farm Positive:

- Degassing and/or cleaning ops continue in tanks 7, 10 and 14.

Fire & Tank Farm Negative:

- LEL, VOC and Benzene emissions from tank farm.
- Fire protection/safety personnel need to be in a state of readiness while operations are performed inside and adjacent to the secondary containment.
- **Fire protection adequate for tank flash fire. Fire protection inadequate for personal safety due to large volume monitors in service.**

Environmental Positive:

- Tidal Rd Ditch and Tucker Bayou at Tidal Rd improving. Film/sheen likely coming from impacted vegetation.
- Flushing ops from behind Clean Harbors to Tidal Rd bridge.
- Crews washing the banks of ditches and Tucker Bayou near Tidal Rd bridge.

Environmental Negative:

- Remove / replace spent absorbent boom.
- Various locations in Tucker Bayou have blockage from vegetation. This blockage needs to be removed to have a successful flush. Crews working on cutting path toward Dow Bridge.

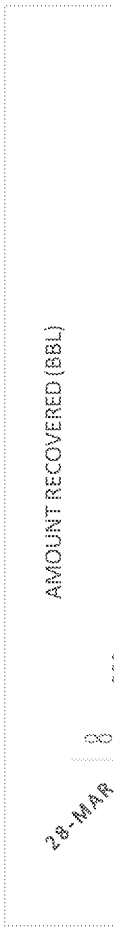
Tony Stamper
Branch Manager

www.nrcc.com | tstamper@nrcc.com

1700 North E Street
La Porte, TX 77571
United States
24 Hour Emergency Service: 1 (800) 899-4672

Division A

Date:	Amount Recovered: bbls	Date:	Total/Day: bbls
30-Mar	10	28-Mar	0
1-Apr	25	29-Mar	0
2-Apr	13	30-Mar	10
2-Apr	52	31-Mar	25
3-Apr	50	1-Apr	65
4-Apr	30	2-Apr	52
4-Apr	542	3-Apr	50
5-Apr	670	4-Apr	572
6-Apr	1600	5-Apr	670
7-Apr	0	6-Apr	1600
8-Apr	550	7-Apr	0
		8-Apr	1310
		9-Apr	1020
		10-Apr	1225
		11-Apr	

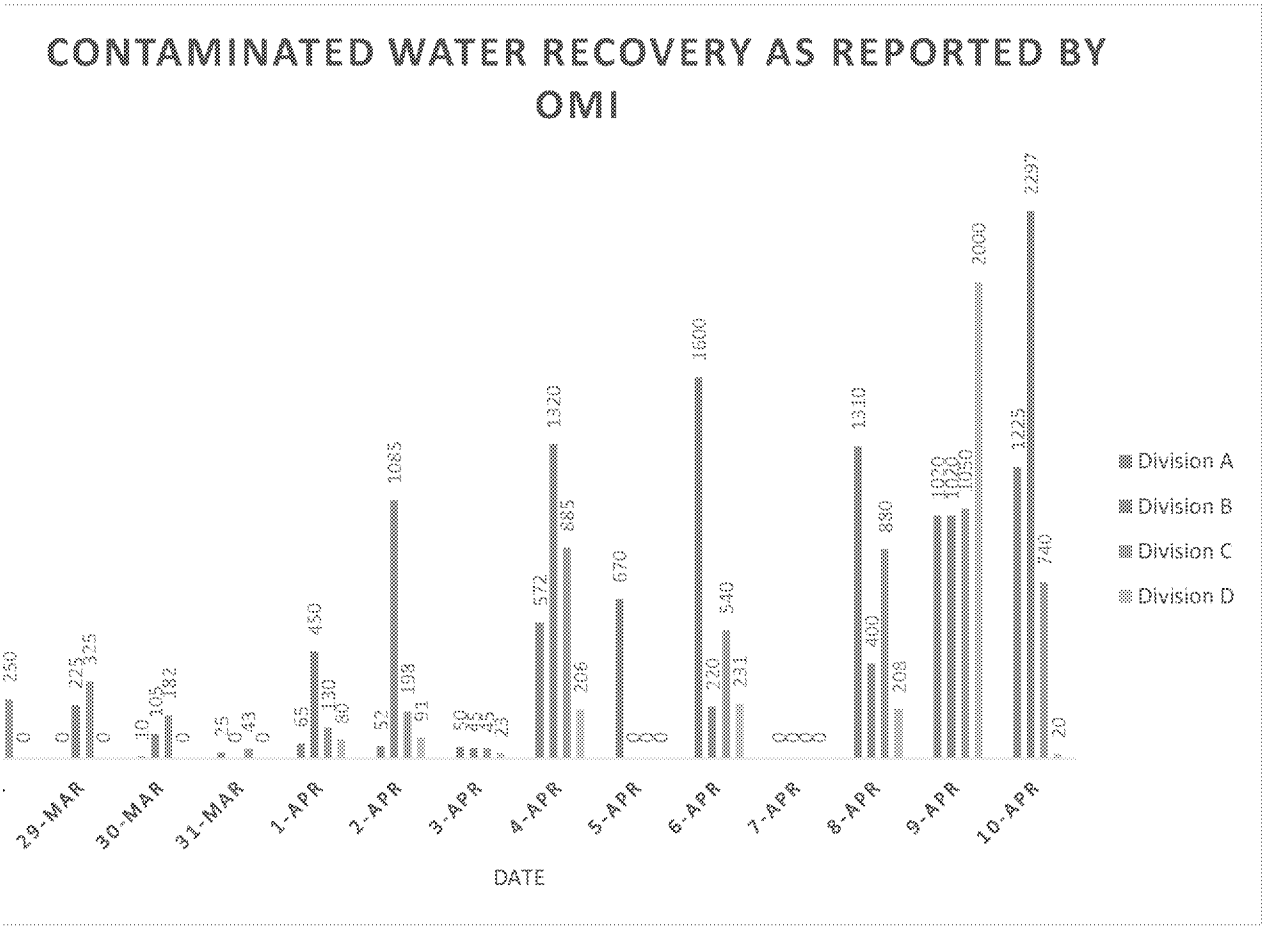


Divison B

Date:	Amount Recovered: bbls	Date:	Total/Day: bbls
29-Mar	120	28-Mar	0
29-Mar	55	29-Mar	225
29-Mar	50	30-Mar	105
30-Mar	105	31-Mar	0
1-Apr	450	1-Apr	450
2-Apr	203	2-Apr	1085
2-Apr	882	3-Apr	45
3-Apr	45	4-Apr	1320
4-Apr	190	5-Apr	0
4-Apr	54	6-Apr	220
4-Apr	900	7-Apr	0
4-Apr	176	8-Apr	400
5-Apr	0	9-Apr	1020
6-Apr	220	10-Apr	2297
7-Apr	0	11-Apr	
8-Apr	100	12-Apr	

Division C/D

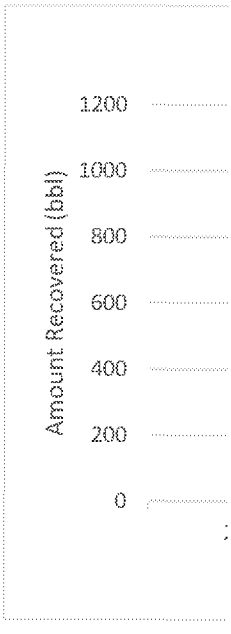
			Div C		Div D	
Date:	Amount Recovered: bbls	Divison:	Date:	Total/Day: bbls	Date:	Total/Day: bbls
28-Mar	250	C	28-Mar	250	28-Mar	0
29-Mar	85	C	29-Mar	325	29-Mar	0
29-Mar	145	C	30-Mar	182	30-Mar	0


CONTAMINATED WATER RECOVERY AS REPORTED BY OMI
Division A
Division B
Division C
Division D
DATE
29-MAR
30-MAR
31-MAR
1-APR
2-APR
3-APR
4-APR
5-APR
6-APR
7-APR
8-APR
9-APR
10-APR
250
0
225
325
0
10
105
182
0
25
0
43
0
65
450
130
60
52
1085
193
91
50
45
25
572
1320
885
266
670
0
0
1600
220
540
231
0
0
0
1310
490
880
208
1820
1820
1850
2000
1225
2297
740
20

29-Mar	95	C	31-Mar	43	31-Mar	0
30-Mar	57	C	1-Apr	130	1-Apr	80
30-Mar	125	C	2-Apr	198	2-Apr	91
31-Mar	38	C	3-Apr	45	3-Apr	23
31-Mar	5	C	4-Apr	885	4-Apr	206
1-Apr	130	C	5-Apr	0	5-Apr	0
1-Apr	80	D	6-Apr	540	6-Apr	231
2-Apr	75	C	7-Apr	0	7-Apr	0
2-Apr	18	D	8-Apr	880	8-Apr	208
2-Apr	73	D	9-Apr	1050	9-Apr	2000
2-Apr	123	C	10-Apr	740	10-Apr	20
3-Apr	45	C	11-Apr		11-Apr	
3-Apr	23	D	12-Apr		12-Apr	
4-Apr	60	C				
4-Apr	60	D				
4-Apr	885	C				
4-Apr	206	D				

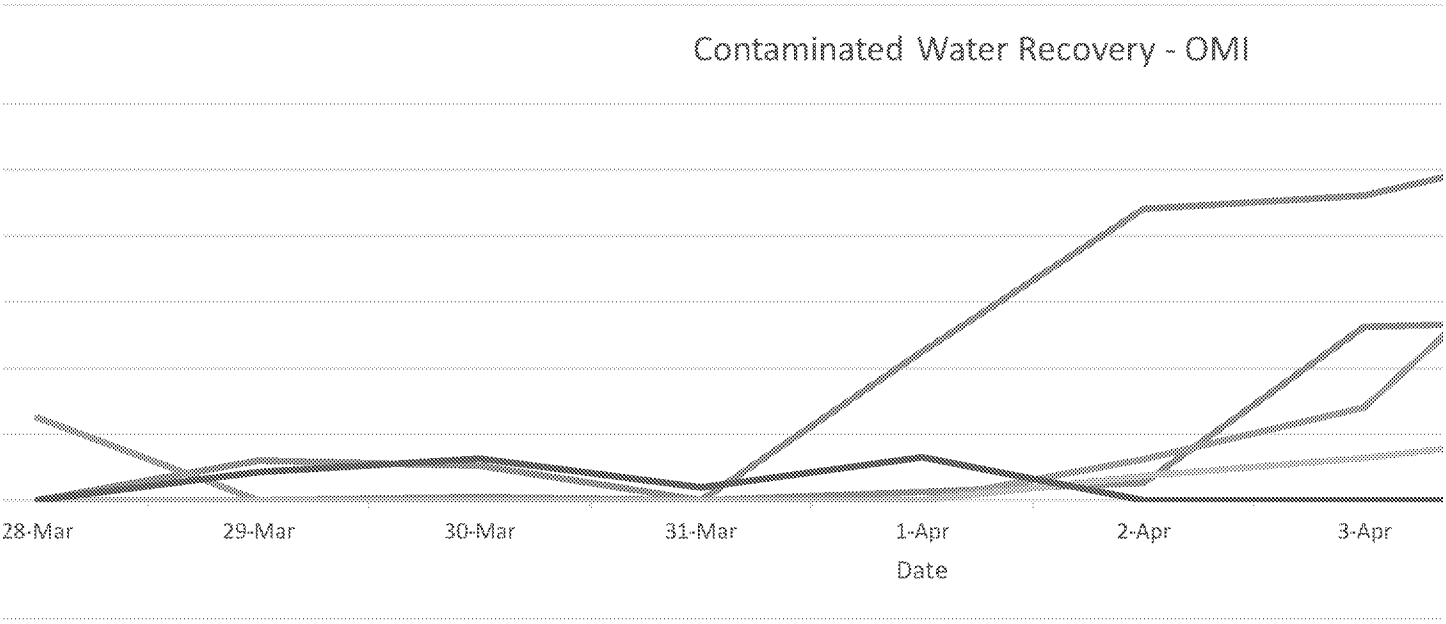
OMI

Date:	Division A
Before 3/28	-
28-Mar	0
29-Mar	0
30-Mar	10
31-Mar	0
1-Apr	25
2-Apr	53
3-Apr	525
4-Apr	542
5-Apr	670
6-Apr	



note:

Division B
-
0
120
105
0
450
882
923
1076
0

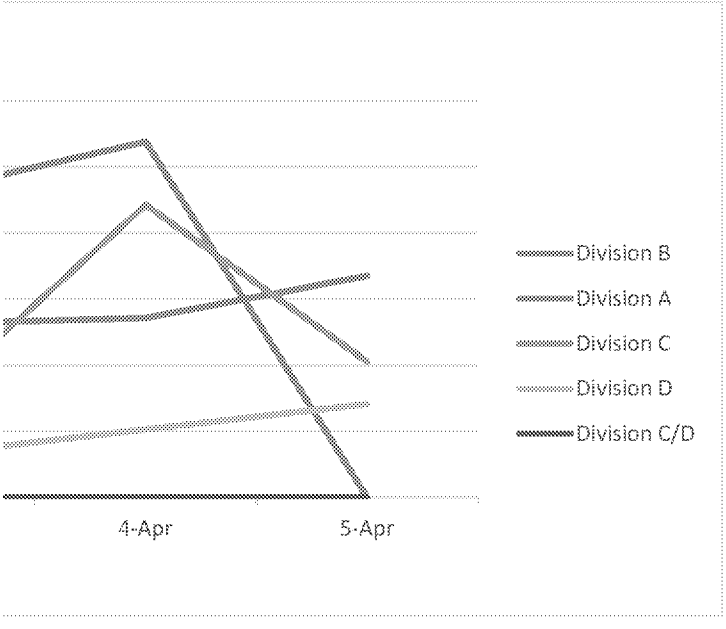


4/5/19 totals were 0 due to Water Operations being shut down for safety reasons while a barge was transported out of S

Division C	Divison D	Division C/D	Division E	Total: bbl
-	-	-	-	174
250	0	-	-	250
-	-	85	-	205
-	-	125	-	240
-	-	38	-	38
-	-	130	-	605
123	73	-	-	1131
280	127	-	-	1855
885	206	-	-	2709
410	282	-	-	1362
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				8395

NRC

Date:	Division A	Division B	Division C	Divison D
25-Mar	98			
26-Mar		76		
1-Apr				
2-Apr				
3-Apr				
4-Apr				
5-Apr				
6-Apr	200	52	240	-



an Jacinto Port

MSRC

Division C/D	Division E	Total: bbl

- - -

Message

From: Margaret Zalabak [MZalabak@responsegroupinc.com]
Sent: 4/11/2019 2:22:34 PM
To: Moore, Gary [Moore.Gary@epa.gov]; Paige.Doelling@noaa.gov; paula.kuykendall@glo.texas.gov
CC: hdubach@ctehrm.com
Subject: FW: SCAT Plan
Attachments: Second 80 FIre SCAT Plan 04.08.19.pdf

As requested, please find a copy of the draft SCAT Plan.

From: Helen Dubach [mailto:hdubach@ctehrm.com]
Sent: Wednesday, April 10, 2019 3:42 PM
To: Margaret Zalabak <MZalabak@responsegroupinc.com>
Subject: SCAT Plan - please print and give to Bob Pfan

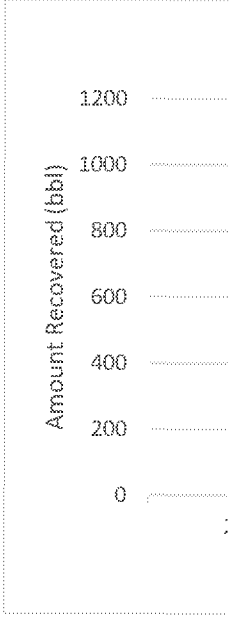
Thank you!

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com |www.ctehrm.com

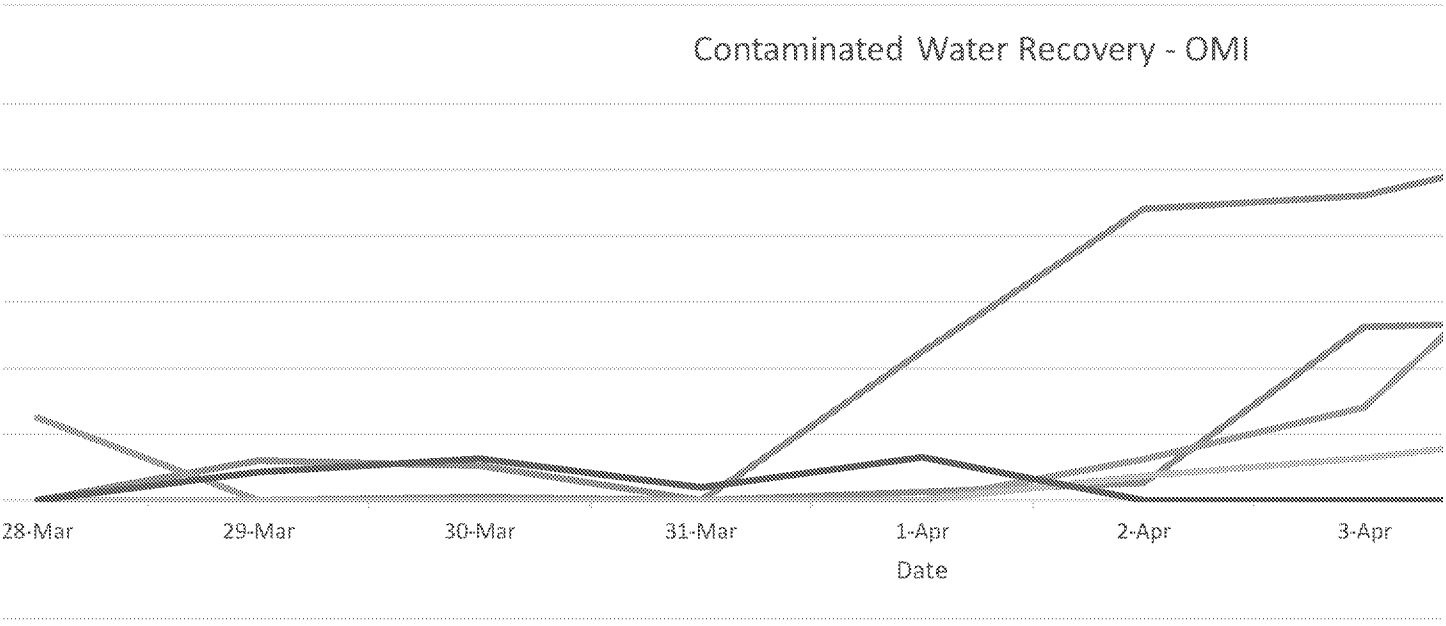
OMI

Date:	Division A
Before 3/28	-
28-Mar	0
29-Mar	0
30-Mar	10
31-Mar	0
1-Apr	25
2-Apr	53
3-Apr	525
4-Apr	542
5-Apr	670
6-Apr	



note:

Division B
-
0
120
105
0
450
882
923
1076
0



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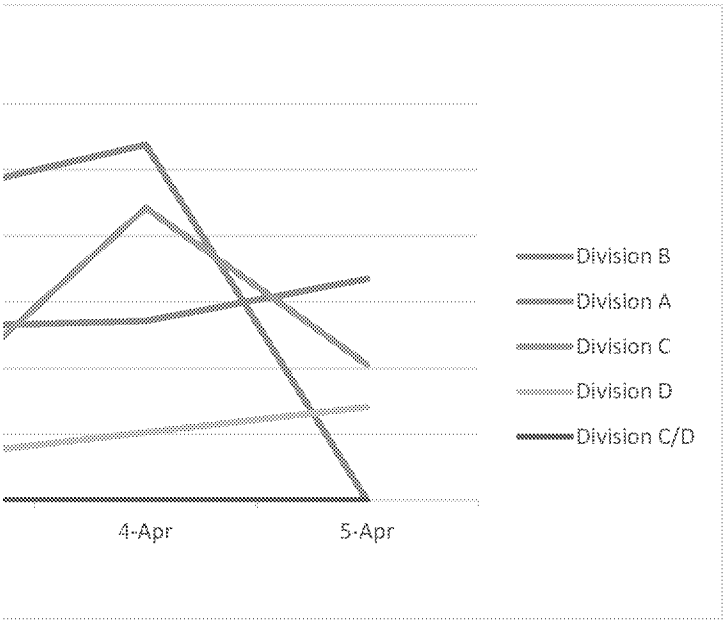
Division C	Divison D	Division C/D	Division E	Total: bbl
-	-	-	-	174
250	0	-	-	250
-	-	85	-	205
-	-	125	-	240
-	-	38	-	38
-	-	130	-	605
123	73	-	-	1131
280	127	-	-	1855
885	206	-	-	2709
410	282	-	-	1362
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				8395

NRC

Date:	Division A	Division B	Division C	Divison D
28-Mar				
29-Mar				
30-Mar				
31-Mar				
1-Apr				
2-Apr				
3-Apr				
4-Apr				
5-Apr				
6-Apr	200	52	240	-



an Jacinto Port

MSRC

Division C/D	Division E	Total: bbl

- - -

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/17/2019 3:38:53 PM
To: bweber@iterm.com; Moore, Gary [Moore.Gary@epa.gov]; 'Helen Dubach' [hdubach@ctehrm.com]
Subject: FW: Substance in ditch
Attachments: IMG_0176.jpg; ATT00001.txt; IMG_0177.jpg; ATT00002.txt; IMG_0178.jpg; ATT00003.txt; IMG_0179.jpg; ATT00004.txt; IMG_0180.jpg; ATT00005.txt

All,

If we could please get some information on what is currently showing up along the ditch on Tidal Road. Our team observed it yesterday and today and think maybe the cleaning materials that are being used are some how escaping the tank farm. You can see the white film along the concrete that has formed that hadn't been seen before.

Thanks,
Kendra Bernhagen

-----Original Message-----
From: Jeff Kunze
Sent: Wednesday, April 17, 2019 10:23 AM
To: spill12 <spill12@tceq.texas.gov>
Subject: Substance in ditch

Kendra:

It has dissipated some from the surface but you can see the accumulation of something on the edges of the ditch. Just wondering what it is. It was released yesterday.
Call if needed.
Thanks.
JK

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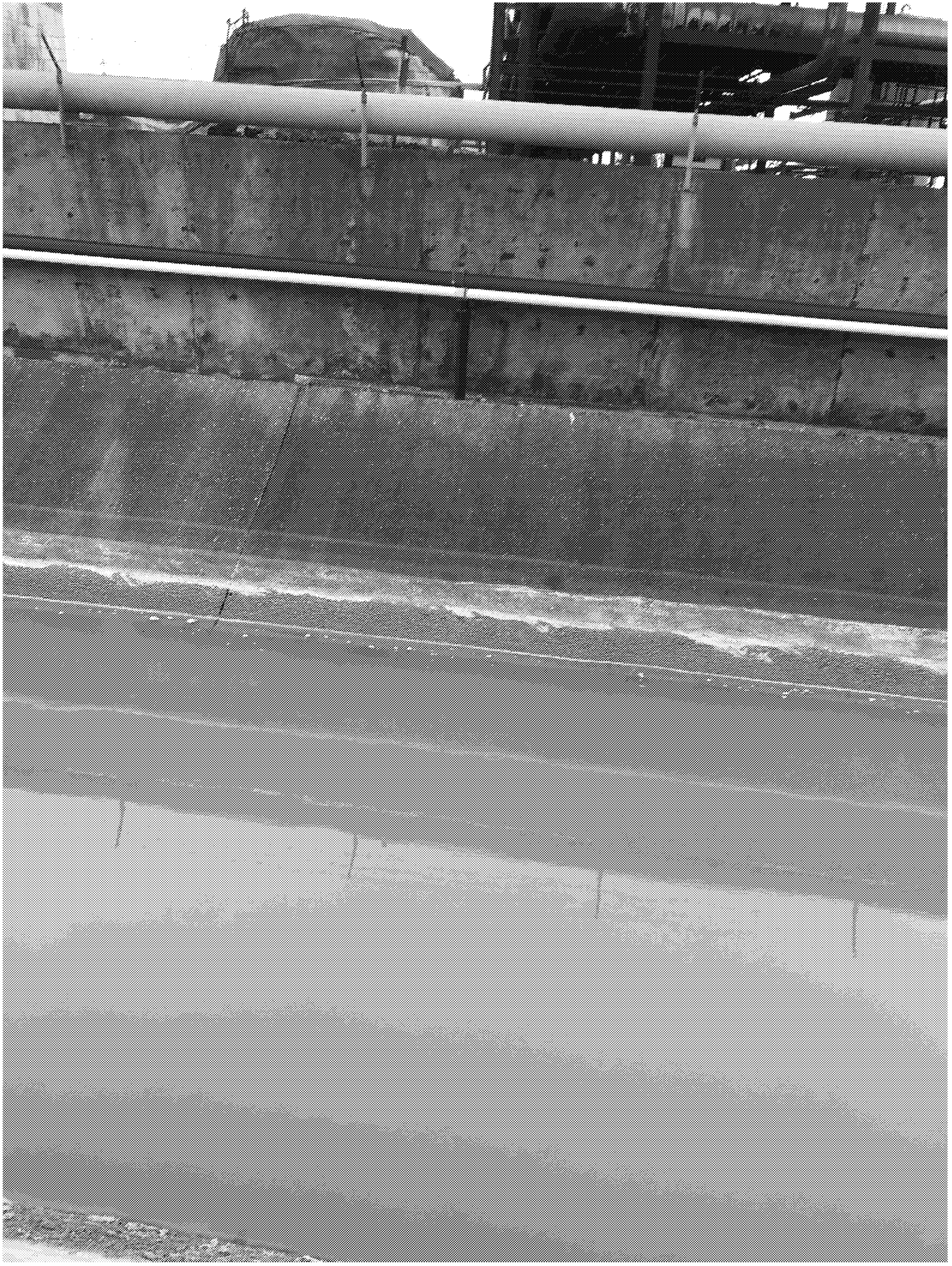
ED_002627_00018138-00001



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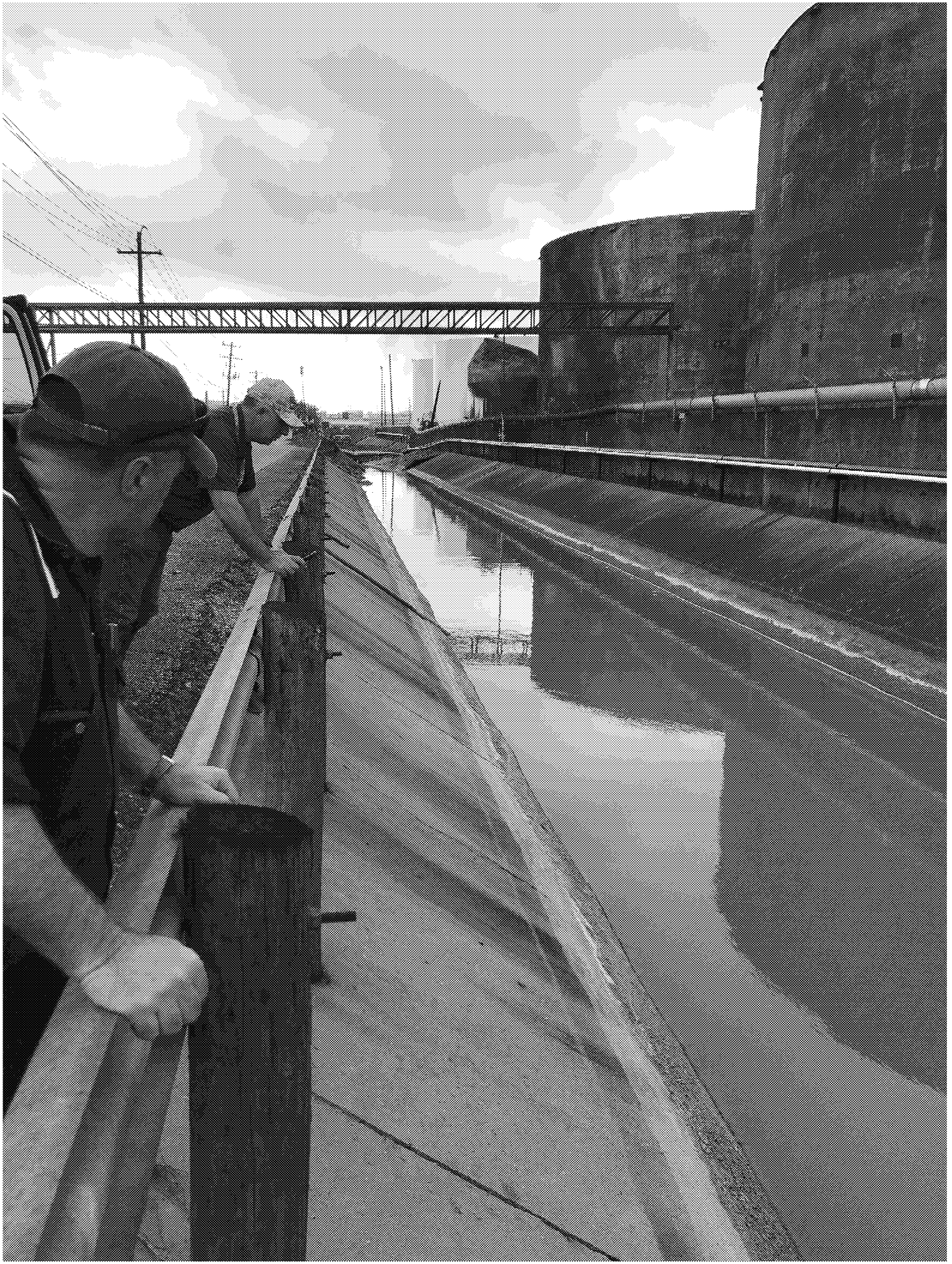
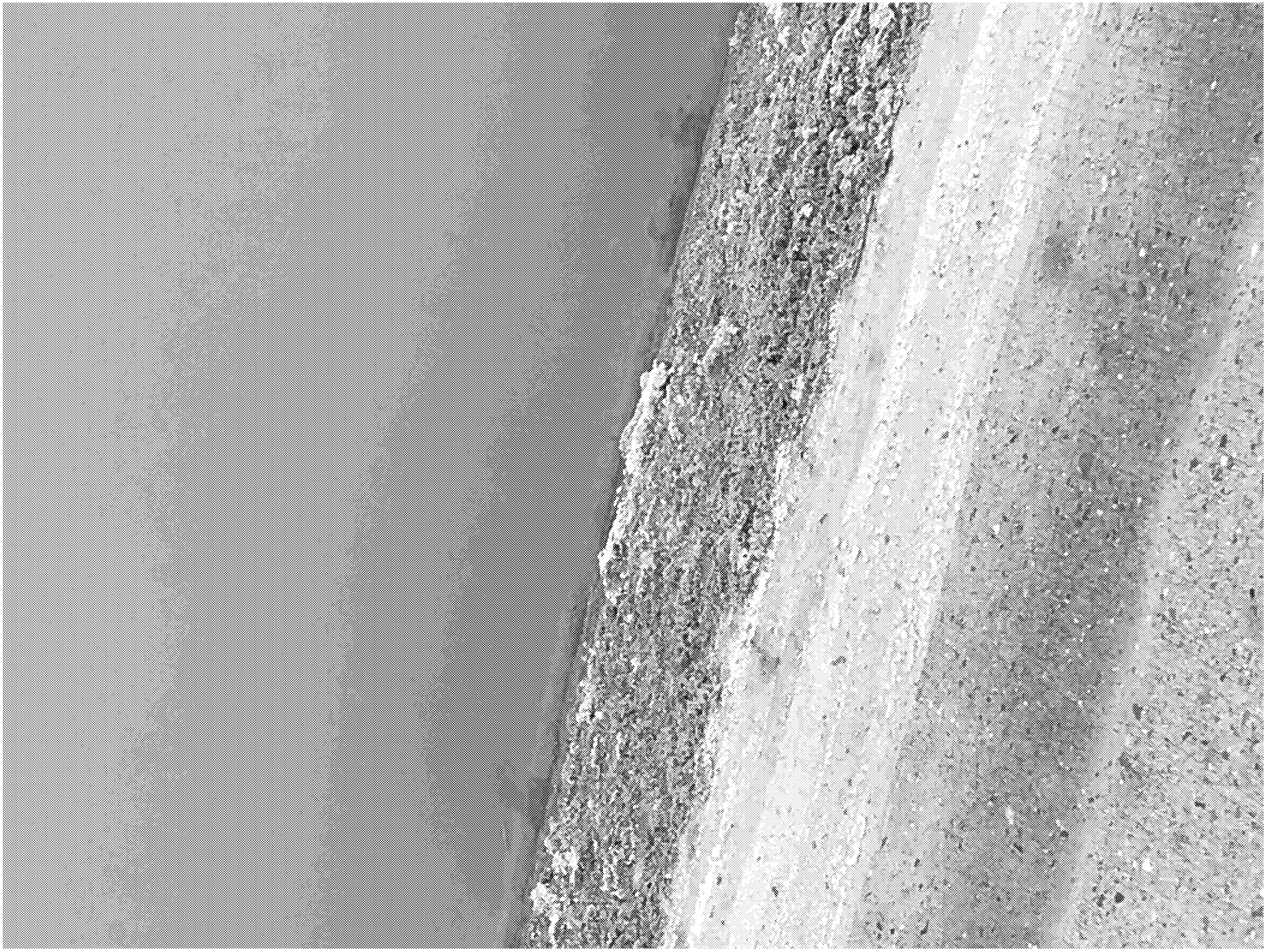




Message

From: Helen Dubach [hdubach@ctehrm.com]
Sent: 4/13/2019 9:13:17 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: Latest version on the SCAT Plan (yet to be approved by UC)
Attachments: SCAT Plan and Endpoints_04_12_19 KB Comments Addressed and TCEQ 003 comments addressed.docx

Please see latest version attached. Note that I am still waiting approval from UC.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Division A

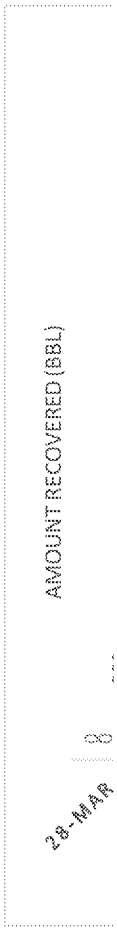
Date:	Amount Recovered: bbls	Date:	Total/Day: bbls
30-Mar	10	28-Mar	0
1-Apr	25	29-Mar	0
2-Apr	13	30-Mar	10
2-Apr	52	31-Mar	25
3-Apr	50	1-Apr	65
4-Apr	30	2-Apr	52
4-Apr	542	3-Apr	50
5-Apr	670	4-Apr	572
6-Apr	1600	5-Apr	670
7-Apr	0	6-Apr	1600
8-Apr	550	7-Apr	0
		8-Apr	1310
		9-Apr	1020
		10-Apr	1225
		11-Apr	1040
		12-Apr	75
		13-Apr	
		14-Apr	
		15-Apr	

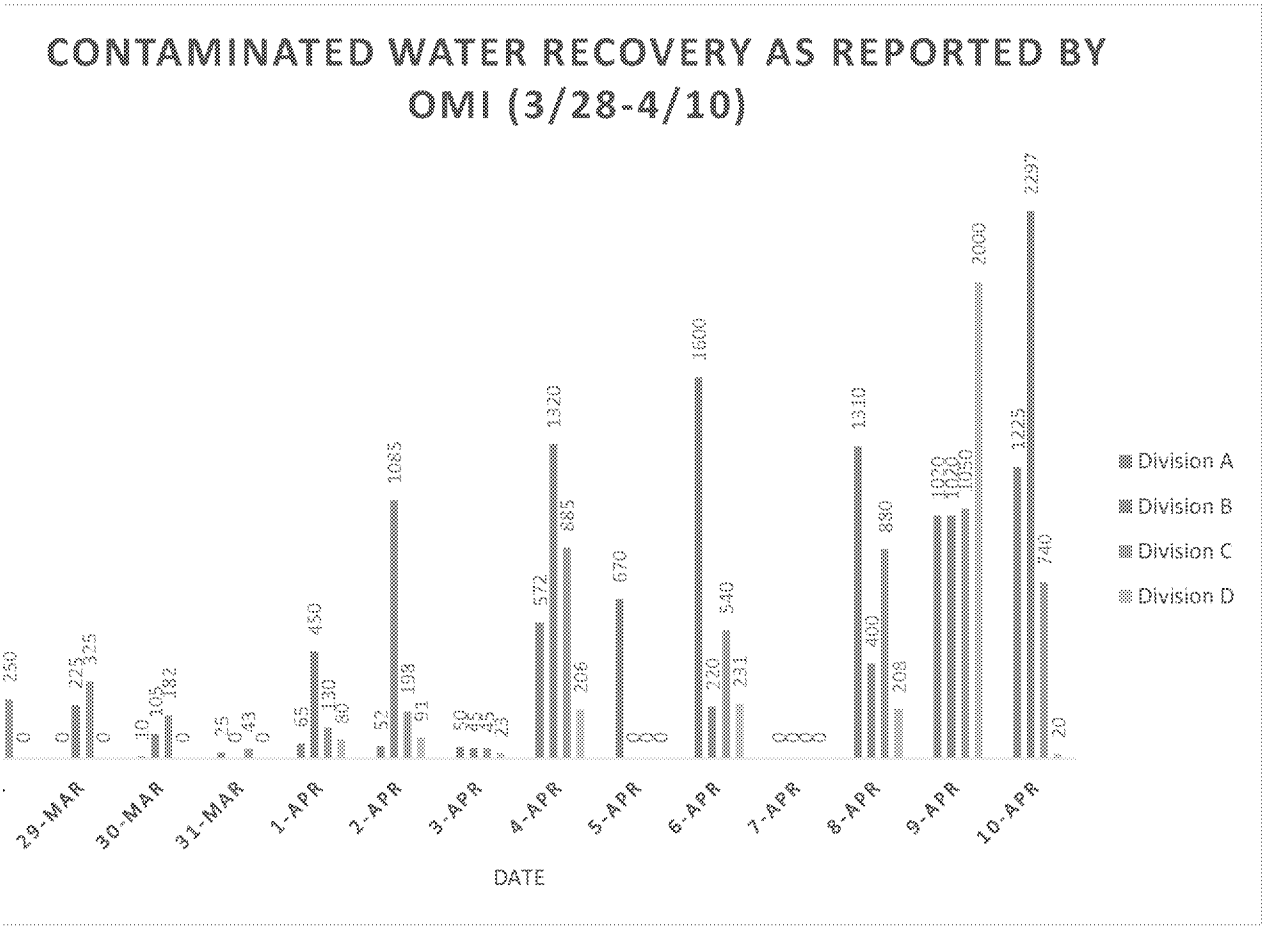
Divison B

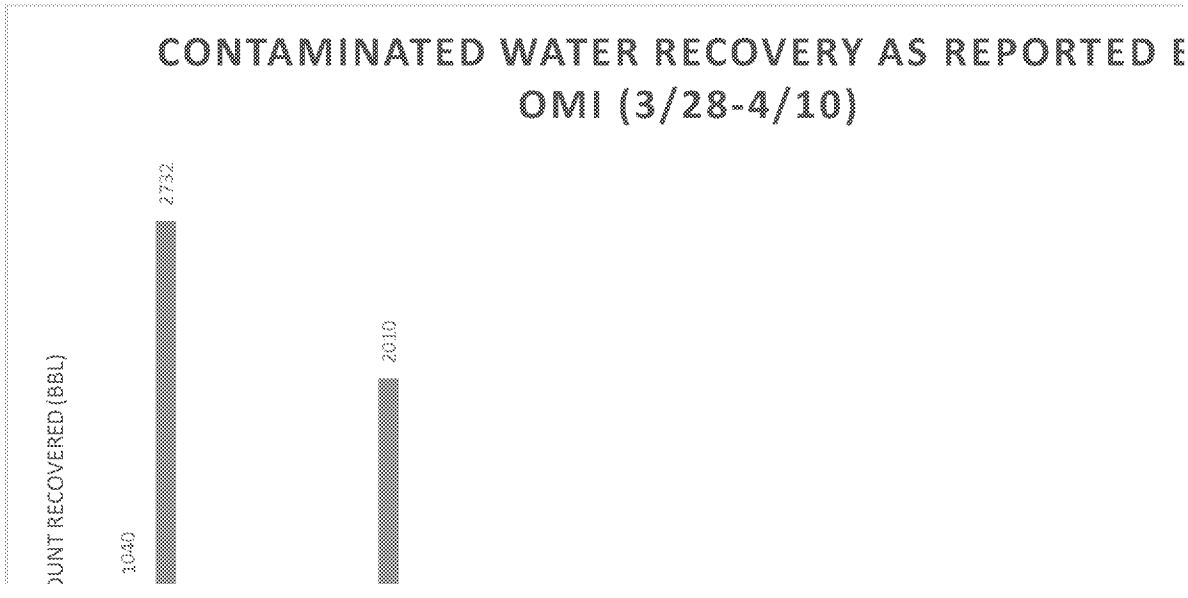
Date:	Amount Recovered: bbls	Date:	Total/Day: bbls
29-Mar	120	28-Mar	0
29-Mar	55	29-Mar	225
29-Mar	50	30-Mar	105
30-Mar	105	31-Mar	0
1-Apr	450	1-Apr	450
2-Apr	203	2-Apr	1085
2-Apr	882	3-Apr	45
3-Apr	45	4-Apr	1320
4-Apr	190	5-Apr	0
4-Apr	54	6-Apr	220
4-Apr	900	7-Apr	0
4-Apr	176	8-Apr	400
5-Apr	0	9-Apr	1020
6-Apr	220	10-Apr	2297
7-Apr	0	11-Apr	2732
8-Apr	100	12-Apr	2010
		13-Apr	
		14-Apr	

Division C/D

Date:	Amount Recovered: bbls	Divison:	Div C Date:	Div C Total/Day: bbls	Div D Date:	Div D Total/Day: bbls
28-Mar	250	C	28-Mar	250	28-Mar	0
29-Mar	85	C	29-Mar	325	29-Mar	0
29-Mar	145	C	30-Mar	182	30-Mar	0

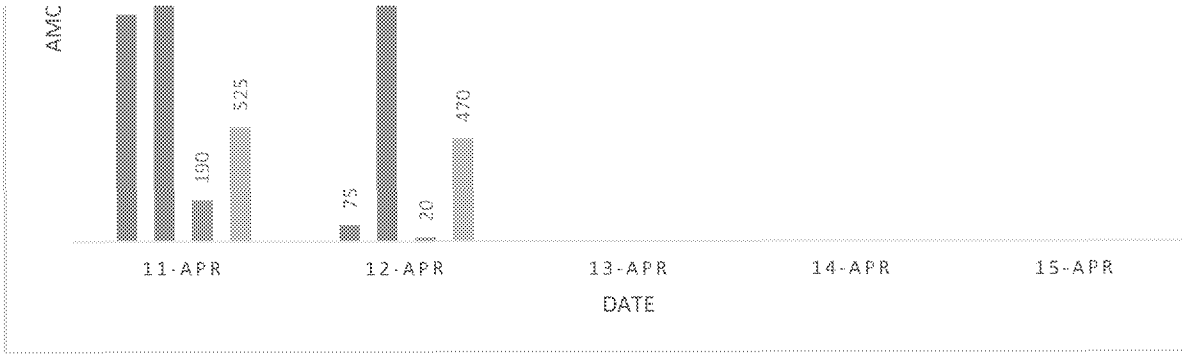



CONTAMINATED WATER RECOVERY AS REPORTED BY OMI (3/28-4/10)
Division A
Division B
Division C
Division D
29-MAR
30-MAR
31-MAR
1-APR
2-APR
3-APR
4-APR
5-APR
6-APR
7-APR
8-APR
9-APR
10-APR
DATE
250
0
225
325
0
10
105
182
0
25
0
43
0
65
450
130
60
52
1085
193
91
50
45
45
23
572
1320
885
266
670
0
0
1600
220
540
231
0
0
0
1310
490
880
208
1820
1670
1850
2000
1225
2297
740
20


CONTAMINATED WATER RECOVERY AS REPORTED E
OMI (3/28-4/10)
JUNT RECOVERED (BBL)
1040
2732
2010

Division A
Division B
Division C

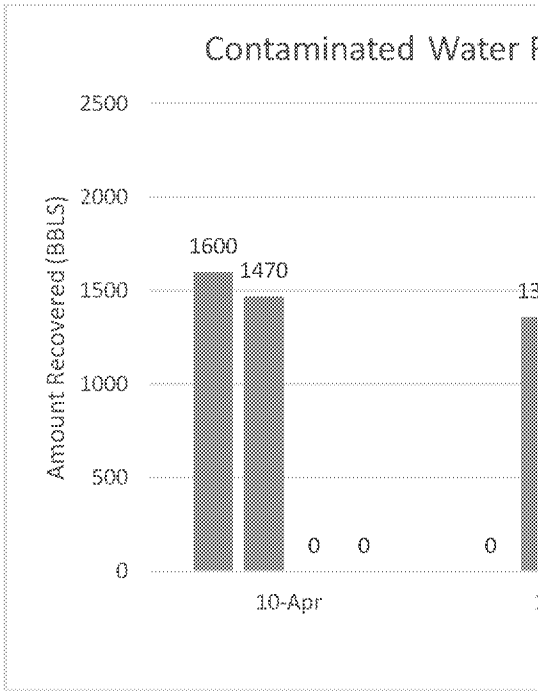
29-Mar	95	C	31-Mar	43	31-Mar	0
30-Mar	57	C	1-Apr	130	1-Apr	80
30-Mar	125	C	2-Apr	198	2-Apr	91
31-Mar	38	C	3-Apr	45	3-Apr	23
31-Mar	5	C	4-Apr	885	4-Apr	206
1-Apr	130	C	5-Apr	0	5-Apr	0
1-Apr	80	D	6-Apr	540	6-Apr	231
2-Apr	75	C	7-Apr	0	7-Apr	0
2-Apr	18	D	8-Apr	880	8-Apr	208
2-Apr	73	D	9-Apr	1050	9-Apr	2000
2-Apr	123	C	10-Apr	740	10-Apr	20
3-Apr	45	C	11-Apr	190	11-Apr	525
3-Apr	23	D	12-Apr	20	12-Apr	470
4-Apr	60	C	13-Apr		13-Apr	
4-Apr	60	D	14-Apr		14-Apr	
4-Apr	885	C	15-Apr		15-Apr	
4-Apr	206	D	16-Apr		16-Apr	


AMC
190
525
75
470
11-APR
12-APR
13-APR
14-APR
15-APR
DATE

Division D

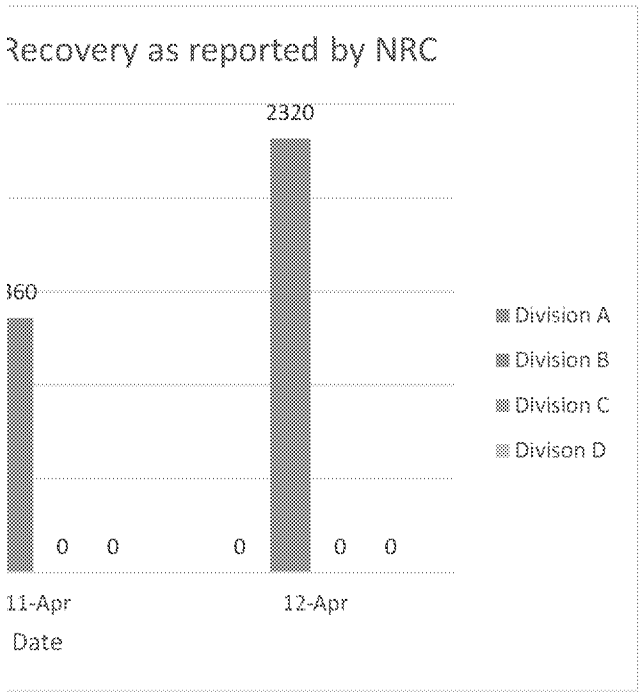
Division A

Date:	Amount Recovered: bbls
10-Apr	1600
11-Apr	0
12-Apr	0
13-Apr	
14-Apr	
15-Apr	



Division B

Date:	Amount Recovered: bbls
10-Apr	1470
11-Apr	1360
12-Apr	2320
13-Apr	
14-Apr	
15-Apr	


Recovery as reported by NRC
2320
360
0
0
0
0
0
Division A
Division B
Division C
Divison D
11-Apr
12-Apr
Date

Division C

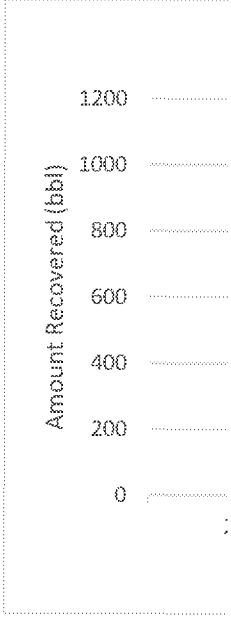
Date:	Amount Recovered: bbls
10-Apr	0
11-Apr	0
12-Apr	0
13-Apr	
14-Apr	
15-Apr	

Division D

Date:	Amount Recovered: bbls
10-Apr	0
11-Apr	0
12-Apr	0
13-Apr	
14-Apr	
15-Apr	

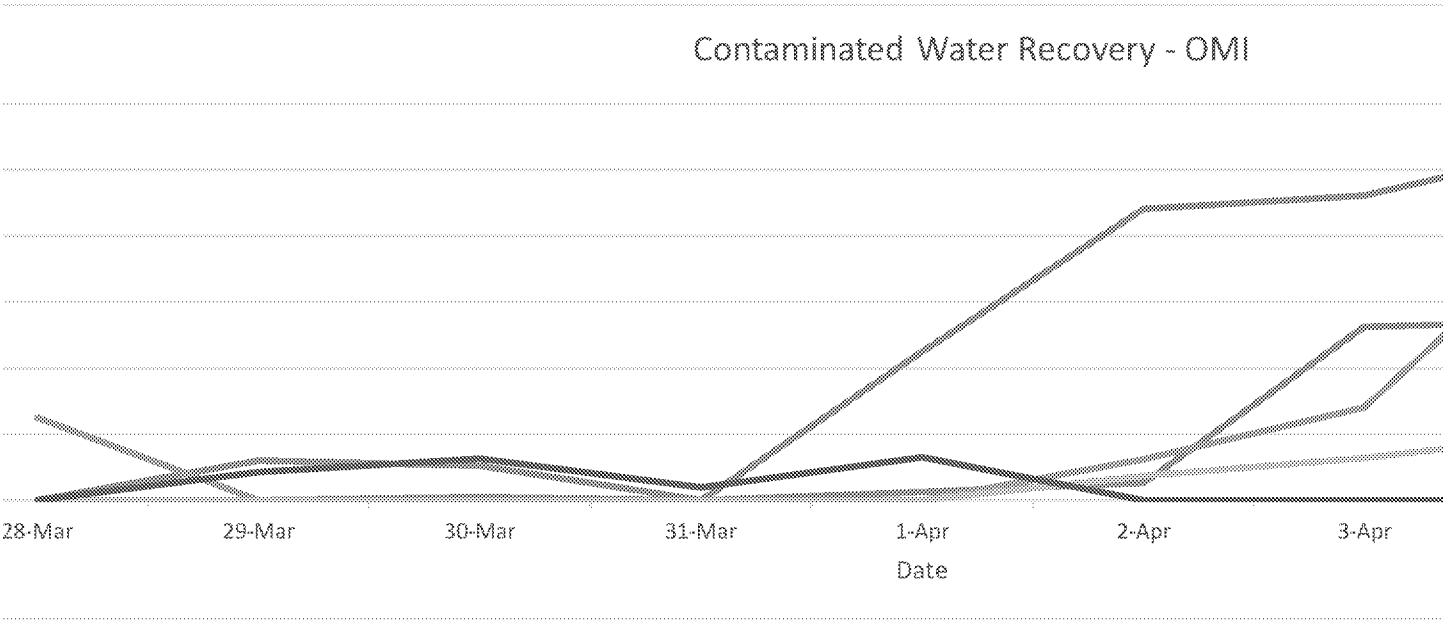
OMI

Date:	Division A
Before 3/28	-
28-Mar	0
29-Mar	0
30-Mar	10
31-Mar	0
1-Apr	25
2-Apr	53
3-Apr	525
4-Apr	542
5-Apr	670
6-Apr	



note:

Division B
-
0
120
105
0
450
882
923
1076
0

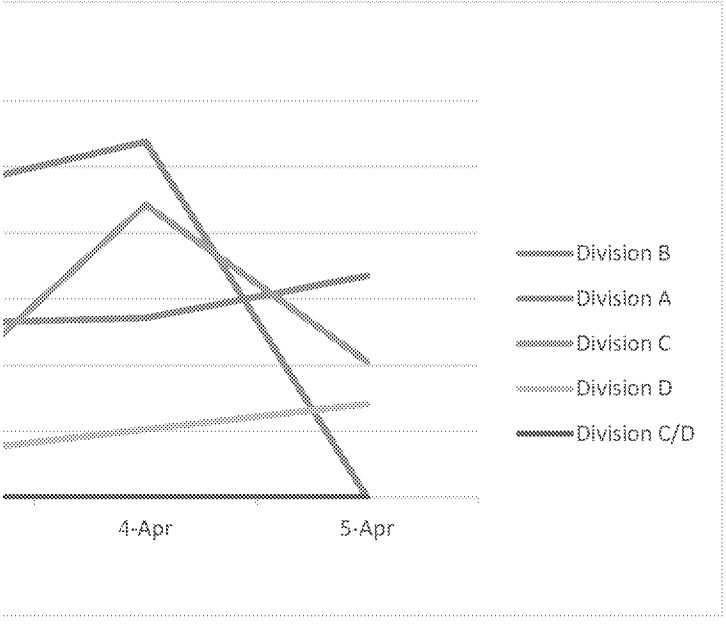


4/5/19 totals were 0 due to Water Operations being shut down for safety reasons while a barge was transported out of S

Division C	Divison D	Division C/D	Division E	Total: bbl
-	-	-	-	174
250	0	-	-	250
-	-	85	-	205
-	-	125	-	240
-	-	38	-	38
-	-	130	-	605
123	73	-	-	1131
280	127	-	-	1855
885	206	-	-	2709
410	282	-	-	1362
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				8395

NRC

Date:	Division A	Division B	Division C	Divison D
25-Mar	98			
26-Mar		76		
1-Apr				
2-Apr				
3-Apr				
4-Apr				
5-Apr				
6-Apr	200	52	240	-



an Jacinto Port

MSRC

Division C/D	Division E	Total: bbl

- - -

Message

From: Anthony Buck [Anthony.Buck@tceq.texas.gov]
Sent: 4/6/2019 8:14:28 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: Fwd: Williams/SWS 4/6/2019 PM Observations
Attachments: ATT00001.txt; ATT00001.htm; image002.png; ATT00002.htm; image003.png; ATT00003.htm; SWS - Williams Tank Update 4 6 2019 PM.xlsx; ATT00004.htm

Sent from my iPhone

Begin forwarded message:

From: Troy C Johnson <troy.c.johnson@jci.com>
Date: April 6, 2019 at 2:52:56 PM CDT
To: Kelly Cook <kelly.cook@tceq.texas.gov>, "'Jeff Kunze'" <jeff.kunze@tceq.texas.gov>, Anthony Buck <Anthony.Buck@tceq.texas.gov>
Cc: "Stamper, Tony" <tstamper@nrcc.com>
Subject: Williams/SWS 4/6/2019 PM Observations

Fire & Tank Farm Positive:

- Adequate fire protection around perimeter of tank farm but not a complete ring.
- Tanks 14 and 15 manways are open and degassing
- Tank 6 manways are open front and back
- Pipe leak between tanks 6 and 1 near loading rack has stopped.
- Contaminated liquid in pipe rack area outside but adjacent to secondary containment has been evacuated.
- Secondary containment has been pumped down and you can visually see the floor

Fire & Tank Farm Negative:

- VOC and Benzene emissions coming from leaking manifolds and piping
- ITC and T&T are not pumping
- Both Tanks 7 & 10 manways were being taken off and about half way down on the bolt removal product started to seep out. They both need to be pumped out further before manway removal.

Environmental Positive:

- Ditch and Tucker Bayou at Tidal Rd looks better but still needs a lot of work. This is becoming less of a source of benzene
- Clean up crews are working diligently to change out absorbent pads
- Vac trucks now have carbon filters for emissions
- Underflow dam was placed in the concrete ditch beside the tank farm east of avenue J

Environmental Negative:

- Spilled product remains on water in ditch from ITC south to Clean Harbors property.
- No flushing operations in ditch behind Clean Harbors. Still product in the ditch.
- VOC and Benzene emissions

If you have any questions please let us know.

Attention My new Email address is; troy.c.johnson@jci.com

Troy Johnson / Territory Manager / JCI / Williams Operations
/ Mobile: +1 704 677 0947 / Fax: +1 409-971-4196 /
24 Hour Emergency Number: 409-727-2347
9605 Richard Wycoff Drive / Port Arthur, TX 77640 / USA
troy.c.johnson@jci.com /www.williamsfire.com

2nd 80's Fire
Tank Volume and Status Updates

Date	4/6/2019
Time	1500 hours

Revisions highlighted in yellow.

Tank #	Original Volume	Updated Volume	Flow rate	Transfer Method	Status	Notes
80 - 1	29-2-8 48,713 bbls	2-10-0 4,522 bbls			Standby	Base Oil
80 - 2	23-3-14 38,451 bbls	0-0-0 0 bbls			Standby	Residual volume in tank. Manway ready to be opened and submersible pump put in. (Gas Blend)
80 - 3	20-3-6 33,200 bbls	0-0-0 0 bbls			Standby	Residual volume in tank. Manway ready to be opened and submersible pump put in. (Gas Blend)
80 - 4	20-9-8 34,808 bbls	4-6-0 7,393 bbls			Standby	Base Oil
80 - 5	22-9-8 35,502 bbls	4-5-0 6,529 bbls			Active	Product level between 3-4 ft. Not currently pumping. (Mixed xylenes)
80 - 6	28-10-6 48,147 bbls	n/a			Active	Not currently pumping. Product level less than 1 ft. (Gas Blend)
80 - 7	25-6-15 42,680 bbls	0-0-0		Submersible pump	Complete	(Py-Gas) not empty an attemp was made to open manway and product was coming out needs pumping out
80 - 8	41-11-6 69,482 bbls	6-0-0 9,072 bbls			Standby	(Naptha)
80 - 9	n/a	n/a			Complete	Empty
80 - 10	8-11-8 14,294 bbls	1-8-0 2,207 bbls		Inline System	Complete	Py-Gas) not empty an attemp was made to open manway and product was coming out needs pumping out
80 - 11	31-0-10 51,741 bbls	13-0-12 21,313 bbls	0 bbls/hr	Inline System	Standby	(Lube Oil)
80 - 12	Empty	Empty			Complete	Empty
80 - 13	8-6-10 13,854 bbls	0-0-0			Complete	(Toluene) Will update.
80 - 14	9-10-0 13,837 bbls	0-0-0 0 bbls			Active	Residual volume in tank. Manway open and degassing has begun. (Py-Gas)
80 - 15	5-11-6 9,354 bbls	0-0-0 0 bbls			Active	Residual volume in tank. Manway open and degassing has begun (Py-Gas)
50-2		34-4-0 39, 505 bbls	0bbls/hr		Standby	
60-1		37-9-14 47,205 bbls			Standby	
80-33		22-3-9 37,745 bbls	35 bbls/hr	Inline System	Active	
80-34		48-0-2 60,784 bbls	422 bbls/hr	Inline System	Active	

Tank Status Menu	Transfer Method Menu
Active	Inline System
Standby	Submersible pump
Planned	
Complete	

Message

From: David Hill [dhill@responsegroupinc.com]
Sent: 4/8/2019 4:14:23 AM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: Period 12 IAP
Attachments: ATT00001.txt; Incident Action Plan-Period 12_.pdf

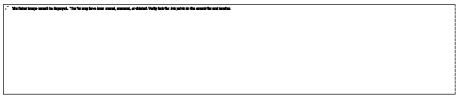
Hello Gary,

Attached is the Period 12 IAP which covers the time period of 0700hrs on **7 April** to 0700hrs on **9 April.**

Please let me know if you have any questions.

Thank you,

David Hill
Planning Section Chief (Night Shift)



Mobile: 832-493-3154

Web: ***www.responsegroupinc.com***

"IAP Software - Developed for Responders by Responders"

Message

From: Brescia, Nicolas [brescia.nicolas@epa.gov]
Sent: 4/6/2019 7:09:32 PM
To: Moore, Gary [Moore.Gary@epa.gov]
Subject: FW: 1300 Benzene Update
Attachments: 20190406_1200_benzene_report.pdf; 20190406_1300_benzene_report.pdf

Nicolas Brescia
US EPA Region 6
Federal On-Scene Coordinator
(214) 665-2291 Work
(214) 789-8383 Mobile
Brescia.Nicolas@epa.gov
1445 Ross Avenue
Suite 1200
Dallas, TX 75202
United States

From: Travis Sartain <tsartain@cteh.com>
Sent: Saturday, April 06, 2019 1:12 PM
To: Adams, Adam <Adams.Adam@epa.gov>; spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Fisher, Kelsey <fisher.kelsey@epa.gov>; Brescia, Nicolas <brescia.nicolas@epa.gov>; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish <patel.anish@epa.gov>; Neil Daniell <NDaniell@css-inc.com>; scowan@css-inc.com; Spall, Amy <amy.spall@westonsolutions.com>; Moore, Gary <Moore.Gary@epa.gov>
Cc: itcdata <itcdata@cteh.com>; 'mtaylor@iterm.com'; 'mgaudet@iterm.com'; Mike Berg <mberg@cteh.com>; Scott Malm <smalm@cteh.com>; Pablo Sanchez-Soria <psoria@cteh.com>; Jason Callahan <jcallahan@cteh.com>; Travis Sartain <tsartain@cteh.com>; April Steger <asteger@cteh.com>
Subject: 1300 Benzene Update

All,

Please find the benzene updates for 1200 and 1300 attached to this email.

Thanks,

Travis Sartain, BS
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8481 | Mobile: 501-442-6023
Emergency Response 24-Hour Hotline: +1(866) 869-2834
tsartain@cteh.com |www.cteh.com

Message

From: Garcia, Oscar [Oscar.Garcia@WestonSolutions.com]
Sent: 4/7/2019 2:02:16 PM
To: Robertson, David [robertson.david@epa.gov]; Moore, Gary [Moore.Gary@epa.gov]
CC: lee.ellmaker@mecx.net
Subject: FW: ITC Water Missions
Attachments: ATT00001.txt

See below – these are the numbers that AMPOL/OMI reported by division (not updated, but provides a framework). I shared this w Brandon yesterday which he used to create a chart of recovery volumes for AMPOL/OMI.

I understand not every contractor currently tracks this, however it may be useful moving forward.

Oscar Garcia III
Associate Project Scientist
Weston Solutions, Inc.
2600 Dallas Pkwy, Ste. 280
Frisco, TX 75034
(956) 909-4311 Cell
(469) 666-5520 Office
oscar.garcia@westonsolutions.com

From: Garcia, Oscar
Sent: Saturday, April 6, 2019 11:23 AM
To: Berger, Brandon <Brandon.Berger@WestonSolutions.com>
Subject: FW: ITC Water Missions

You were right – there is some info below here with recovered volumes for 4/3/19 (however I don't know from the content whether the volumes are from the previous day's recovery, or from 4/3)

Oscar Garcia III
Associate Project Scientist
Weston Solutions, Inc.
2600 Dallas Pkwy, Ste. 280
Frisco, TX 75034
(956) 909-4311 Cell
(469) 666-5520 Office
oscar.garcia@westonsolutions.com

From: Everette L. Babin <ebabin@ampol.net>
Sent: Thursday, April 4, 2019 10:16 AM
To: Garcia, Oscar <Oscar.Garcia@WestonSolutions.com>
Subject: Fwd: ITC Water Missions

**** External Email ****

Sent from my iPhone

Begin forwarded message:

From: Tyler Segura <tsegura@omies.com>
Date: April 3, 2019 at 5:55:55 PM CDT
To: "Everette L. Babin" <ebabin@ampol.net>
Subject: Fwd: ITC Water Missions

---------- Forwarded message ---------
From: **Breanna Fair** <breannafair@omies.com>
Date: Wed, Apr 3, 2019 at 5:51 PM
Subject: Re: ITC Water Missions
To: Matthew Dempsey <matthewdempsey@omies.com>
CC: Brian Martinez <brianmartinez@omies.com>, Freddy Nichols <FreddyNichols@omies.com>, John Temperilli <jtemperilli@omies.com>, Shanon Wade <swade@omies.com>, Terry Posey <terryposey@omies.com>, Tina Mikes <tmikes@omies.com>, Tyler Segura <tsegura@omies.com>, Walter Diamond <wdiamond@omies.com>, Jackie Smith <jsmith@omies.com>, <cgitcresponse@gmail.com>

04/03/2019 0545-- Totals

Division A
Barge Boats- 6
Workboats- 4
Jon Boats- 3
Marco Skimmets- 3
525 bbls recovered
400' boom deployed

Division B
Barge Boats- 11
Workboats- 6
Jon Boats- 3
Marco Skimmers- 7
923 bbls recovered
0' boom deployed

Division C
Barge Boats- 6
Workboats- 3
Jon Boats- 3
Marco Skimmers- 6
280 bbls recovered
0 boom deployed

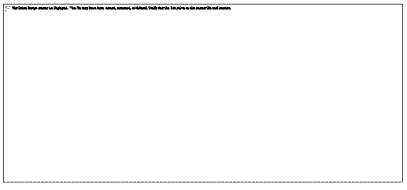
Division D
Barge Boats- 3
Workboats- 5

Jon Boats- 0
Marco Skimmers-4
127 bbls recovered
0 boom deployed

BREANNA FAIR

Business Development

1717 West 13th Street Deer Park, TX 77536
O: 281-930-1200 **24/7 EMERGENCY RESPONSE**
C: 281-928-0777 **1.800.645.6671**
OMIES.COM



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On Wed, Apr 3, 2019 at 11:59 AM Breanna Fair <breannafair@omies.com> wrote:

Corrected Counts 1200 4/3/2019

4/3/2019 1145

Division A
Barge Boats- 6
Workboats- 4
Jon Boats- 3
Marco Skimmets- 3
50 bbls recovered
0 boom deployed

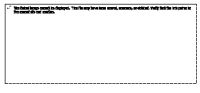
Division B
Barge Boats- 11
Workboats- 6
Jon Boats- 3
Marco Skimmers- 7
243 bbls recovered
0' boom deployed

Division C
Barge Boats- 6
Workboats- 3
Jon Boats- 3
Marco Skimmers- 6
45 bbls recovered
0 boom deployed

Division D
Barge Boats- 3
Workboats- 5
Jon Boats- 0
Marco Skimmers-4
23 bbls recovered
0 boom deployed

BREANNA FAIR
Business Development

1717 West 13th Street Deer Park, TX 77536
O: 281-930-1200 24/7 EMERGENCY RESPONSE
C: 281-928-0777 1.800.645.6671
OMIES.COM



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On Wed, Apr 3, 2019 at 11:47 AM Breanna Fair <breannafair@omies.com> wrote:

4/3/2019 1145

Division A
Barge Boats- 6
Workboats- 4
Jon Boats- 3
Marco Skimmets- 3
50 bbls recovered
0 boom deployed

Division B
Barge Boats- 11
Workboats- 6
Jon Boats- 3
Marco Skimmers- 7
45 bbls recovered
0' boom deployed

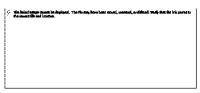
Division C
Barge Boats- 6
Workboats- 3
Jon Boats- 3
Marco Skimmers- 6
23 bbls recovered
0 boom deployed

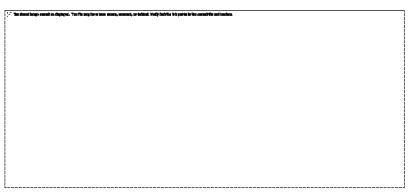
Division D
Barge Boats- 3
Workboats- 5
Jon Boats- 0
Marco Skimmers-4
23 bbls recovered
0 boom deployed

BREANNA FAIR

Business Development

1717 West 13th Street Deer Park, TX 77536
O: 281-930-1200 24/7 EMERGENCY RESPONSE
C: 281-928-0777 1.800.645.6671
OMIES.COM





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On Tue, Apr 2, 2019 at 5:42 PM Breanna Fair <breannafair@omies.com> wrote:

1730 4/2/19-- totals

Division A
Barge Boats- 6
Workboats- 4
Jon Boats- 3
Marco Skimmets- 3
53 bbls recovered
1000' 18" boom deployed at Boggy Bayou

Division B
Barge Boats- 11
Workboats- 6
Jon Boats- 3
Marco Skimmers- 7
882 bbls recovered
0' boom deployed

Division C
Barge Boats- 6
Workboats- 3
Jon Boats- 3
Marco Skimmers- 6
123 bbls recovered
100' 18" boom deployed near Old River
100'- 42" boom deployed near Old River

Division D
Barge Boats- 3
Workboats- 5
Jon Boats- 0
Marco Skimmers-4
73 bbls recovered
500' 18" boom deployed 120/125
1100' 18" boom deployed - AA33

Thanks!

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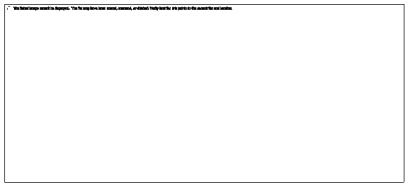

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On Tue, Apr 2, 2019 at 11:54 AM Breanna Fair <breannafair@omies.com> wrote:

1130 4/2/19

Division A
Barge Boats- 6
Workboats- 4
Jon Boats- 3
Marco Skimmets- 3
13 bbls recovered
1000' 18" boom deployed at Boggy Bayou

Division B
Barge Boats- 11
Workboats- 6
Jon Boats- 3
Marco Skimmers- 7
203 bbls recovered
0' boom deployed

Division C
Barge Boats- 6
Workboats- 3
Jon Boats- 3
Marco Skimmers- 6
75 bbls recovered
Boom being deployed near Old River- no count yey

Division D
Barge Boats- 3
Workboats- 5
Jon Boats- 0
Marco Skimmers-4
18 bbls recovered
500' 18" boom deployed 120/125

Decon
Barge Boats- 18

Workboats- 7
Currently set up at top of Division B and near the mouth of Old River
Looking to set up near Shell in Division A

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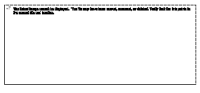

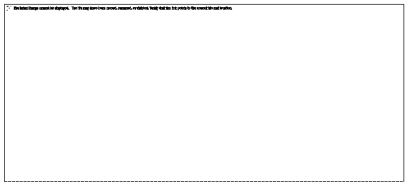

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On Mon, Apr 1, 2019 at 5:35 PM Breanna Fair <breannafair@omies.com> wrote:

B actually deployed 200' boom

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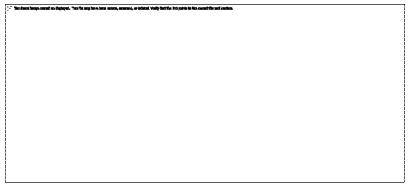

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On Mon, Apr 1, 2019 at 5:31 PM Breanna Fair <breannafair@omies.com> wrote:

1730 4/1/19 Totals

Div A
6 Barge Boats
1 Marco
4 FRV's
25 bbls recovered
500' boom deployment

Div B
11 Marcos
13 Barge Boats
5 FRV's
3 Jon Boats
450 bbl recovered
0 boom deployed

Div C/D
Estimate 15 - 20 boats
C- No boom deployed; 130 bbls recovered
D- 600' deployed; 130 bbls recovered

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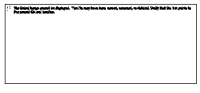

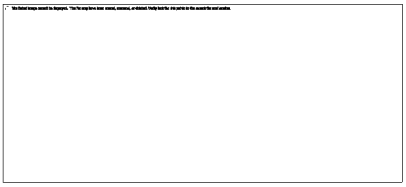

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On Mon, Apr 1, 2019 at 12:27 PM Breanna Fair <breannafair@omies.com> wrote:

1215 4/1/19

Div A
6 Barge Boats
1 Marco
4 FRV's
No recovery
No boom deployment

Div B
11 Marcos
13 Barge Boats
5 FRV's
3 Jon Boats
140 bbl recovered
0 boom deployed

Div C/D
Estimate 15 - 20 boats
C- No boom deployed; 50 bbls recovered
D- 300' deployed; 20 bbls recovered

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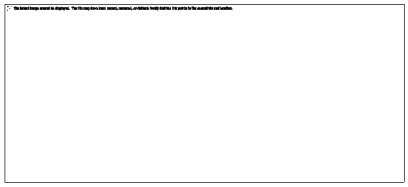

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On Mon, Apr 1, 2019 at 10:51 AM Breanna Fair <breannafair@omies.com> wrote:

0930 4/1/19

Boat Counts:

Div A
6 Barge Boats
1 Marco
4 FRV's

Div B
11 Marcos
13 Barge Boats
5 FRV's
3 Jon Boats

Div C
Estimate 15 - 20 boats

Decon
21 boats

SCAT/ RAT
8 boats

Wildlife
2 boats

Air Monitoring
2 boats

Agency
2 boats

Sampling
2 Boats

Portalets
2

Decon Showers
2 Boats

Safety
3 boats

ITC
5 boats

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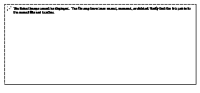

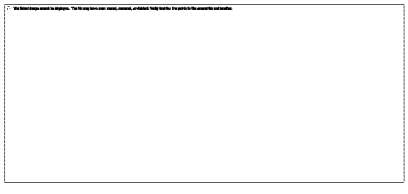

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On Sun, Mar 31, 2019 at 5:44 PM Breanna Fair <breannafair@omies.com> wrote:

1530 3/31/19

Division A
no recovery/ boom deployment due to tide level

Division B

no recovery/ boom deployment due to tide level

Division C/D
1500' - 18" boom deployed
43 bbls recovered

Decon
no activity due to low tide level.

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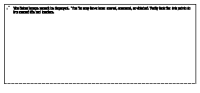

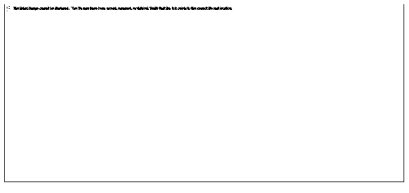

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On Sun, Mar 31, 2019 at 2:03 PM Breanna Fair <breannafair@omies.com> wrote:

As of 1330 on 03/31/2019

Div A
No activity due to tide

Div B
No activity due to tide

Div C/D
38 bbls recovered
400 ft 18" boom deployed
12 skimming boats operational near Ksolv

Decon:
Limited due to tide

Operational boats are assessing for decon

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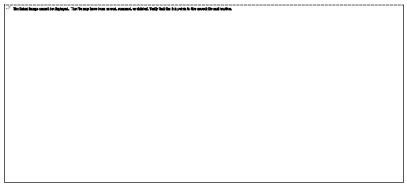

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On Sun, Mar 31, 2019 at 8:53 AM Breanna Fair <breannafair@omies.com> wrote:

FYI-- Boat ops are delayed due to low tide. Currently looking for alternative launch options. Shanon and OMI, ITC, and Coast Guard Division supervisor for Div C are working to start ops with skimmers and vac trucks at oil pocket at KSolv docs. Operators and Techs for these ops will be bused to KSolv where the vessels are currently docked.

Sending boat counts shortly.

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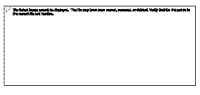

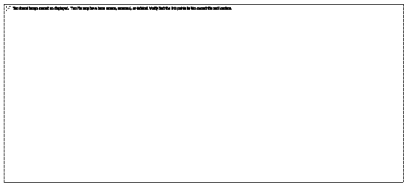

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On Sat, Mar 30, 2019 at 5:39 PM Breanna Fair <breannafair@omies.com> wrote:

Division A:
Boats: 4
10 BBLS RECOVERED
0' - 18" boom deployed

Division B:
Boats:21
105 bbls recovered
0' - 42" boom deployed
400'- 18" boom deployed

Division C/D:
Boats: 17
125 bbls recovered
3600' - 18" boom deployed

Decon:
Boats: 20
0 boat complete
0 checked
0 in progress

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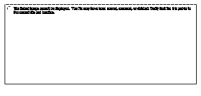

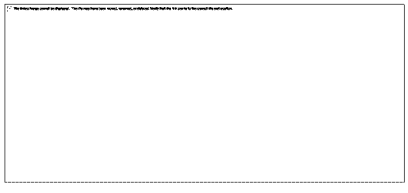

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On Sat, Mar 30, 2019 at 12:54 PM Breanna Fair <breannafair@omies.com> wrote:

3/30/19 @ 1230

Division A:
Boats: 2
No recovery
0' - 18" boom deployed

Division B:
Boats:21
105 bbls recovered
0' - 42" boom deployed
400'- 18" boom deployed

Division C/D:
Boats: 11
57 bbls recovered
400' - 18" boom deployed

Decon:
Boats: 20
0 boat complete
0 checked
0 in progress

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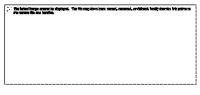

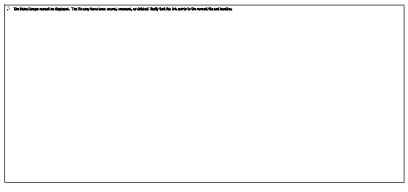

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On Fri, Mar 29, 2019 at 12:00 PM Breanna Fair <breannafair@omies.com> wrote:

3/29/19 @ 1200

Division A:
Boats: 4
No recovery
600' - 18" boom deployed

Division B:
Boats:17
120 bbls recovered
1000' - 42" boom deployed
200'- 18" boom deployed

Division C/D:
Boats: 9
85 bbls recovered
600' - 18" boom deployed

Decon:
Boats: 25
1 boat complete
24 checked
1 in progress

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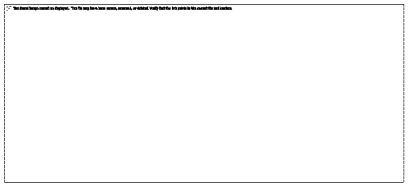

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On Fri, Mar 29, 2019 at 10:23 AM Breanna Fair <breannafair@omies.com> wrote:

0930 Boat Count:

Division A: 7

Division B: 17

Division C: 9

Division D: 9

Decon: 25

Wildlife: 2

Agency: 4

Sampling: 6

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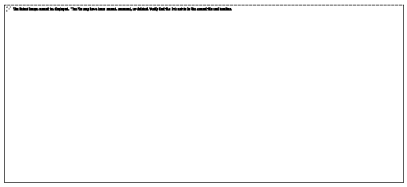

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On Thu, Mar 28, 2019 at 9:33 PM Breanna Fair <breannafair@omies.com> wrote:

3/28/19 Summary

Division A
5 Boats
600 ft Boom Deployed
No recovery

Division B
20 Boats
2900 ft Boom Deployed (2000' 42"/ 900' 18")
No recovery

Division C
6 boats
No boom Deployed
250 bbls recovered

Divsion D
<3 Boats
No boom Deployed
No product recovered

(According to USCG) division C&D coincide at times

Decon
20+ boats in areas as directed

Sampling
6 Boats

Wildlife
2 Boats

Air Monitorig
10+ Boats

Agency Standby Boats
3-5

Vacuum Truck ops- Do not have a recovery amount. According to Reid and Karrah with ITC, trucks cannot offload until they have approval from ITC legal for a form they will be using that will be in place of a standard manifest or BOL. Until then any product recovered with a vac truck and will be going into a

tank in ITC should remain loaded. They hope to have this form tomorrow morning.

On Wed, Mar 27, 2019 at 4:49 PM Breanna Fair <breannafair@omies.com> wrote:

P029 1500 2 boats deployed 400 ft boom at Tucker Bayou
P030 1530 2 boats added 200ft diversion boom at Shell DP
P031 1530 4 boats adding 4K ft boom at Bostco shoreline
R009 1645 2 Marco Skimmer added to area

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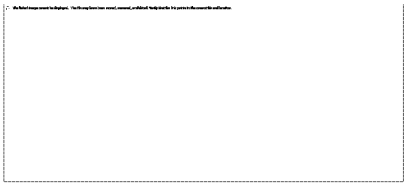

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Tyler Segura
Facility Manager

TSegura@omies.com | Office 337-364-5373 | Cell 409-299-0472 | Fax 337-367-9444
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Message

From: Moore, Gary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9494EB3B37241B09CE3BDEAFF4C557A-MOORE, GARY]
Sent: 4/7/2019 3:48:55 AM
To: Randy Surgii [rsurgui@itcrm.com]
Subject: Fwd: 04/06/19 214B's for Div E
Attachments: 214B ITC tank farm 040619.doc; ATT00001.htm; 214B ITC Tucker Bayou 040619.doc; ATT00002.htm

Hello Randy,

This is the info for Div E that we recorded. I think it is a little thin as I would like to know volume recovered.

Gary Moore
EPA

Sent from my iPhone

Begin forwarded message:

> **From:** "Fisher, Kelsey" <fisher.kelsey@epa.gov>
> **Date:** April 6, 2019 at 7:35:40 PM CDT
> **To:** "Brescia, Nicolas" <brescia.nicolas@epa.gov>, "Moore, Gary" <Moore.Gary@epa.gov>
> **Subject: 04/06/19 214B's for Div E**
>
> Thank you!
>
> **Bray Kelsey Fisher**
> **Federal On Scene Coordinator**
> **U.S. Environmental Protection Agency – Region 6**
> **1445 Ross Avenue**
> **Dallas, TX 75202**
> **Office: (214) 665-2712**
> **Mobile: (469) 510-8825**

Message

Sent: 4/17/2019 10:22:29 PM
To: bweber@iterm.com
CC: MGaudet@iterm.com; Adams, Adam (Adams.Adam@epa.gov) [Adams.Adam@epa.gov]; Moore, Gary (moore.gary@epa.gov) [moore.gary@epa.gov]; Crossland, Ronnie (Crossland.Ronnie@epa.gov) [Crossland.Ronnie@epa.gov]; Smalley, Bryant (smalley.bryant@epa.gov) [smalley.bryant@epa.gov]; Petersen, Chris (petersen.chris@epa.gov) [petersen.chris@epa.gov]; Smith, Monica (smith.monica@epa.gov) [smith.monica@epa.gov]; Webster, Susan (webster.susan@epa.gov) [webster.susan@epa.gov]; spill12@tceq.texas.gov; Amy Spall (amy.spall@westonsolutions.com) [amy.spall@westonsolutions.com]
Subject: Signed Discharge Authorization and Effluent Limitations and Monitoring Requirements
Attachments: Discharge Authorization and Effluent Limitations and Monitoring Requirements.pdf

Hello All,

Attached is the signed Discharge Authorization and Effluent Limitations and Monitoring Requirements document.

Sincerely,
Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

Message

Sent: 4/9/2019 1:45:04 PM
To: rebecca.barrera@westonsolutions.com
Subject: FW: Email address for tank table
Attachments: Tank Update 4-9-19.xlsx

From: Crossland, Ronnie
Sent: Tuesday, April 9, 2019 8:41 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: FW: Email address for tank table

From: Brent Weber <bweber@iterm.com>
Sent: Tuesday, April 9, 2019 8:37 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; kelly.cook@tceq.texas.gov
Cc: Adams, Adam <Adams.Adam@epa.gov>; Mike Gaudet <MGaudet@iterm.com>
Subject: RE: Email address for tank table

Updated:

From: Crossland, Ronnie [mailto:Crossland.Ronnie@epa.gov]
Sent: Tuesday, April 09, 2019 7:43 AM
To: Brent Weber
Cc: Adams, Adam
Subject: Email address for tank table

Brent

Just making sure you have my email address

Thanks
Ronnie

Message

Sent: 4/3/2019 10:51:19 PM
To: RMcLelland@iterm.com
Subject: RE: 20190403 Water Sampling

Reid,

Can you

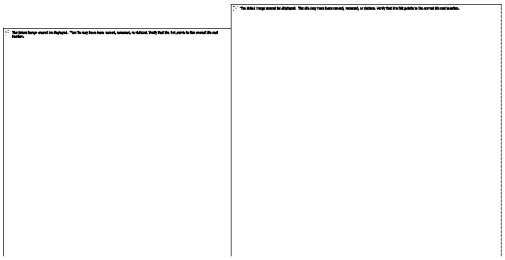
From: Adams, Adam
Sent: Wednesday, April 3, 2019 5:42 PM
To: Patel, Anish <patel.anish@epa.gov>
Subject: Fwd: 20190403 Water Sampling

Can you make sure your on this distribution list, please?

Sent from my iPhone

Begin forwarded message:

> **From:** "Reid McLelland" <RMcLelland@iterm.com>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>, "'spill12@tceq.texas.gov'" <spill12@tceq.texas.gov>, "Mason, Steve" <mason.steve@epa.gov>, "'craig.hill@pcs.hctx.net'" <craig.hill@pcs.hctx.net>, "'johnathan.martin@pcs.hctx.net'" <johnathan.martin@pcs.hctx.net>, "Daniel Tighe" <Daniel.Tighe@WestonSolutions.com>, "'b.latham@WestonSolutions.com'" <b.latham@WestonSolutions.com>, "'uscgimdhouston@gmail.com'" <uscgimdhouston@gmail.com>, "'nicole.bealle@tceq.texas.gov'" <nicole.bealle@tceq.texas.gov>, "'alma.walker@tceq.texas.gov'" <alma.walker@tceq.texas.gov>, "Quiroz Guadalupe_TCEQ" <Guadalupe.quiroz@tceq.texas.gov>, "'andy.goodridge@tceq.texas.gov'" <andy.goodridge@tceq.texas.gov>, "'karina.roche@tceq.texas.gov'" <karina.roche@tceq.texas.gov>, "'westin.massey@tceq.texas.gov'" <westin.massey@tceq.texas.gov>, "'nicole.d.rodriguez@uscg.mil'" <nicole.d.rodriguez@uscg.mil>
> **Cc:** "'harrison.reback@bakerbotts.com'" <harrison.reback@bakerbotts.com>, "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, "Mike Taylor" <mtaylor@iterm.com>, "Reid McLelland" <RMcLelland@iterm.com>, "Mike Gaudet" <MGaudet@iterm.com>, "'mark.hamlin@bakerbotts.com'" <mark.hamlin@bakerbotts.com>
> **Subject: 20190403 Water Sampling**
>
> See attached latest water sampling results.
>
> **Reid McLelland**
> Environmental Compliance Specialist
> Intercontinental Terminals Co LLC
> 1943 Independence Pkwy S. | LaPorte, TX 77571
> D: 281.884.0308
> C: 281.838.7567
> rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/18/2019 11:03:12 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Report
Attachments: 20190418_1700_Benzene_Report.pdf; 20190418_1800_Benzene_Report.pdf

All,

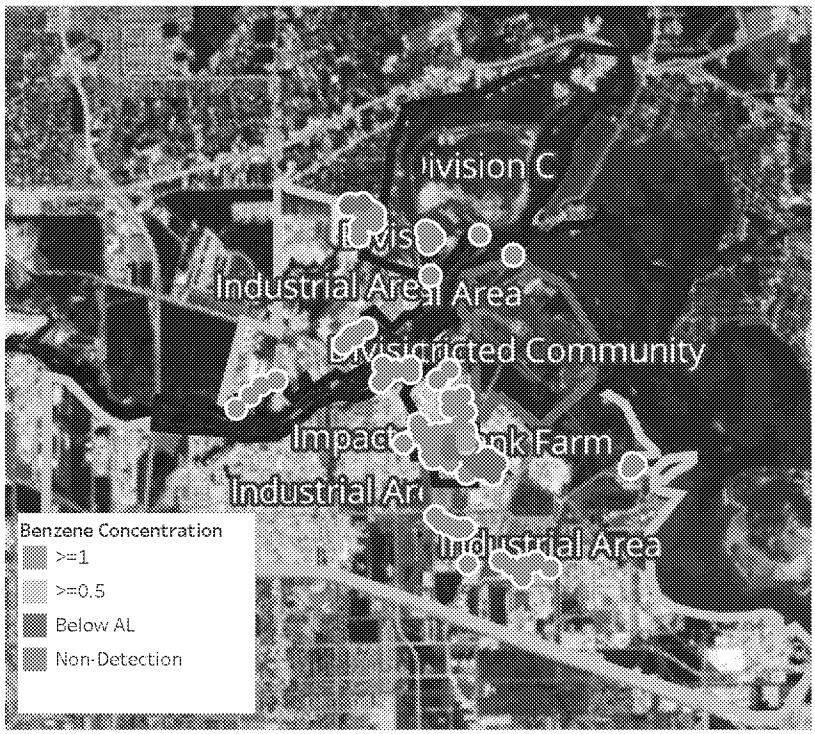
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

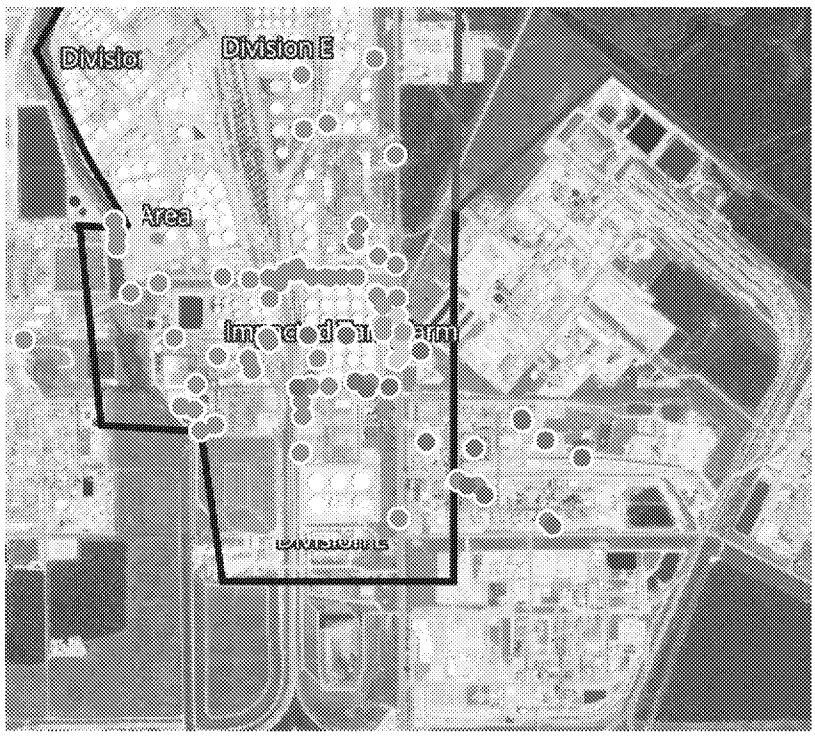
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 4:00:00 PM to 4/18/2019 5:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/18/2019 16:22:34	0.100 ppm
	4/18/2019 16:33:33	0.150 ppm
Division E	4/18/2019 16:02:51	0.510 ppm
	4/18/2019 16:15:44	0.670 ppm
	4/18/2019 16:17:10	0.060 ppm
	4/18/2019 16:22:57	0.440 ppm
	4/18/2019 16:30:38	1.020 ppm
	4/18/2019 16:32:01	0.130 ppm
	4/18/2019 16:45:16	0.640 ppm
	4/18/2019 16:47:20	0.030 ppm
	4/18/2019 16:54:13	0.240 ppm
	4/18/2019 16:57:28	0.890 ppm
Impacted Tank Farm	4/18/2019 16:10:36	0.125 ppm
	4/18/2019 16:19:23	1.550 ppm
	4/18/2019 16:33:11	0.125 ppm
	4/18/2019 16:44:51	0.375 ppm
	4/18/2019 16:48:10	1.250 ppm
	4/18/2019 16:50:07	1.640 ppm
	4/18/2019 16:44:59	0.930 ppm
Industrial Area	4/18/2019 16:33:08	0.020 ppm
	4/18/2019 16:50:52	0.060 ppm
	4/18/2019 16:46:44	0.020 ppm
	4/18/2019 16:29:24	0.060 ppm
	4/18/2019 16:25:23	0.120 ppm
	4/18/2019 16:35:17	0.020 ppm
	4/18/2019 16:37:40	0.030 ppm
	4/18/2019 16:22:57	0.070 ppm
	4/18/2019 16:20:42	0.110 ppm
	4/18/2019 16:26:58	0.060 ppm
	4/18/2019 16:58:33	0.090 ppm

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Reading Date
4/18/2019 4:00:00 PM to 4/18/2019 5:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

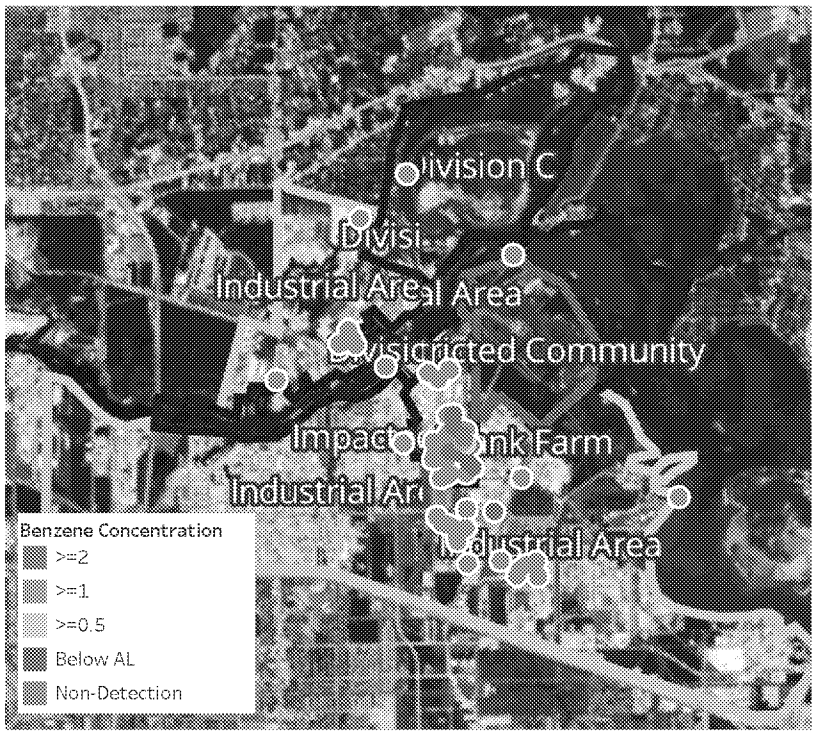
Recent Benzene Detections Greater than 1.00 ppm

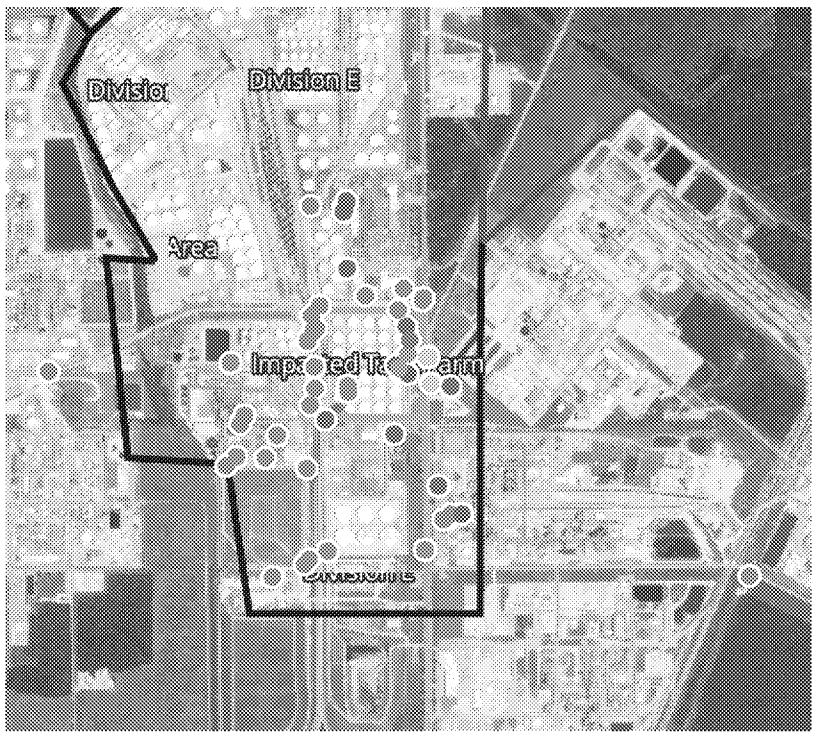
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 16:50:07	Impacted Tank Farm	29.7524360,-95.0903370	https://www.google.com/maps/search/?api=1&query=29.7524360,-95.0903370	1.0400 ppm
4/18/2019 16:48:10	Impacted Tank Farm	29.7317600,-95.0903800	https://www.google.com/maps/search/?api=1&query=29.7317600,-95.0903800	1.2500 ppm
4/18/2019 16:30:38	Division E	29.7317440,-95.0897300	https://www.google.com/maps/search/?api=1&query=29.7317440,-95.0897300	1.0200 ppm
4/18/2019 16:19:23	Impacted Tank Farm	29.7319680,-95.0903180	https://www.google.com/maps/search/?api=1&query=29.7319680,-95.0903180	1.5500 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 5:00:00 PM to 4/18/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 17:08:39	0.510 ppm
	4/18/2019 17:20:58	0.020 ppm
	4/18/2019 17:20:20	0.900 ppm
	4/18/2019 17:25:40	0.020 ppm
	4/18/2019 17:34:38	0.020 ppm
	4/18/2019 17:39:52	0.160 ppm
	4/18/2019 17:43:41	0.120 ppm
	4/18/2019 17:44:35	0.250 ppm
	4/18/2019 17:52:22	0.650 ppm
	4/18/2019 17:48:57	0.200 ppm
Impacted Tank Farm	4/18/2019 17:05:55	1.500 ppm
	4/18/2019 17:26:45	0.080 ppm
	4/18/2019 17:22:16	3.770 ppm
	4/18/2019 17:18:37	1.930 ppm
	4/18/2019 17:27:54	0.150 ppm
	4/18/2019 17:25:59	0.150 ppm
	4/18/2019 17:35:34	0.175 ppm
	4/18/2019 17:44:19	0.125 ppm
Industrial Area	4/18/2019 17:00:15	0.020 ppm
	4/18/2019 17:04:02	0.020 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 5:00:00 PM to 4/18/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 17:22:16	Impacted Tank Farm	29.7524130,-95.0903320	https://www.google.com/maps/search/?api=1&query=29.7524130,-95.0903320	3.770 ppm
4/18/2019 17:18:37	Impacted Tank Farm	29.7320440,-95.0903770	https://www.google.com/maps/search/?api=1&query=29.7320440,-95.0903770	1.930 ppm
4/18/2019 17:05:55	Impacted Tank Farm	29.7316670,-95.0906750	https://www.google.com/maps/search/?api=1&query=29.7316670,-95.0906750	1.500 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 9:27:45 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190414_0300_benzene_report.pdf; 20190414_0400_benzene_report.pdf

All,

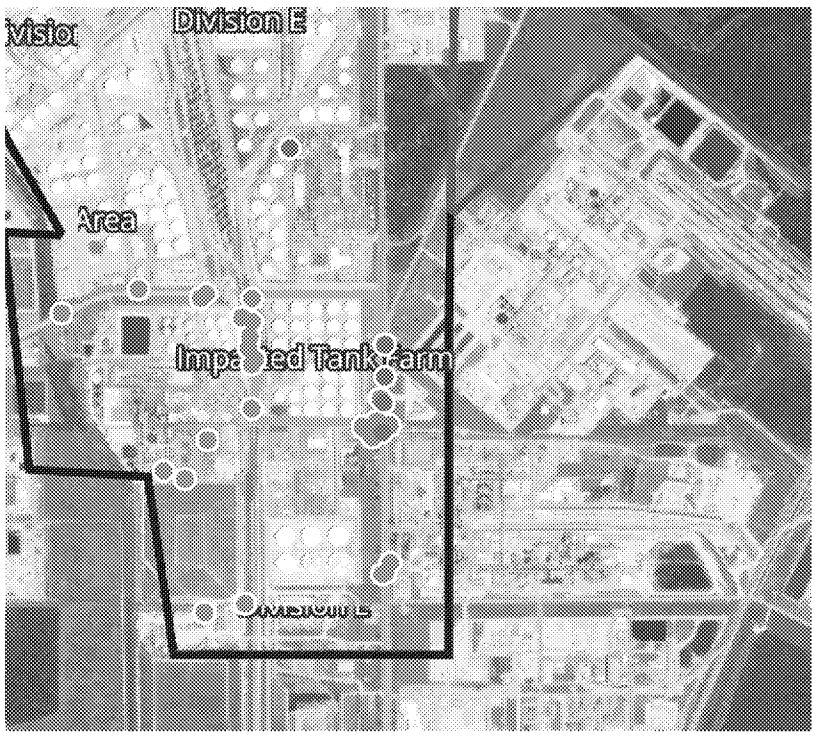
Attached are the benzene reports from 0200 – 0400.

Thanks

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 2:00:00 AM to 4/14/2019 3:00:00 AM



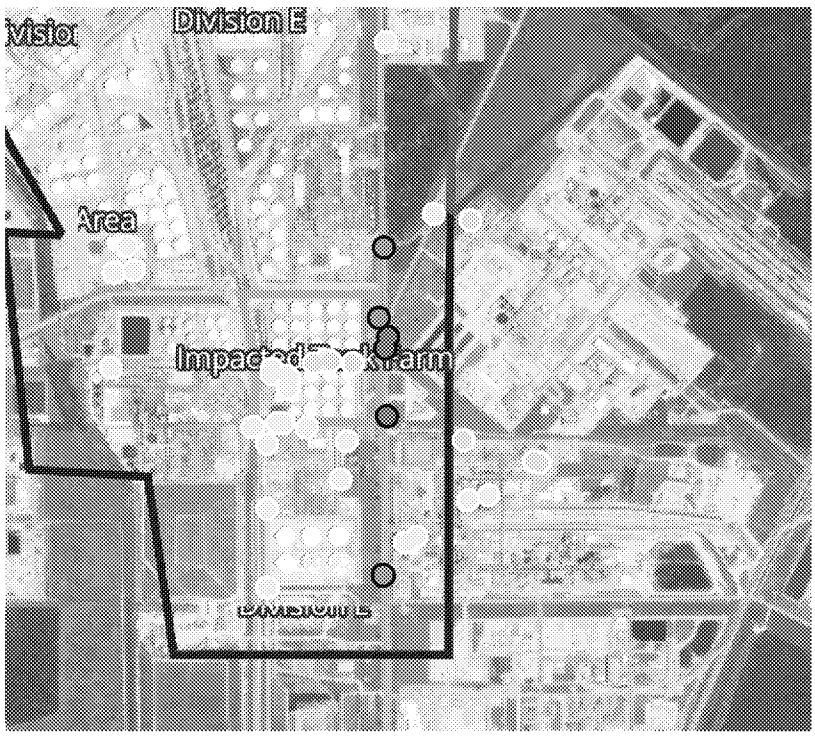
Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 02:07:38	0.1600 ppm
	4/14/2019 02:09:53	0.0400 ppm
	4/14/2019 02:25:00	0.4800 ppm
	4/14/2019 02:18:36	0.1500 ppm
	4/14/2019 02:42:07	0.0500 ppm
	4/14/2019 02:36:46	0.0700 ppm
	4/14/2019 02:00:09	0.1100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 3:00:00 AM to 4/14/2019 4:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 03:04:49	0.0600 ppm
	4/14/2019 03:12:11	0.1200 ppm
	4/14/2019 03:42:32	0.2700 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 7:14:28 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0200 Benzene Update
Attachments: 20190414_0100_benzene_report.pdf; 20190414_0200_benzene_report.pdf

All,

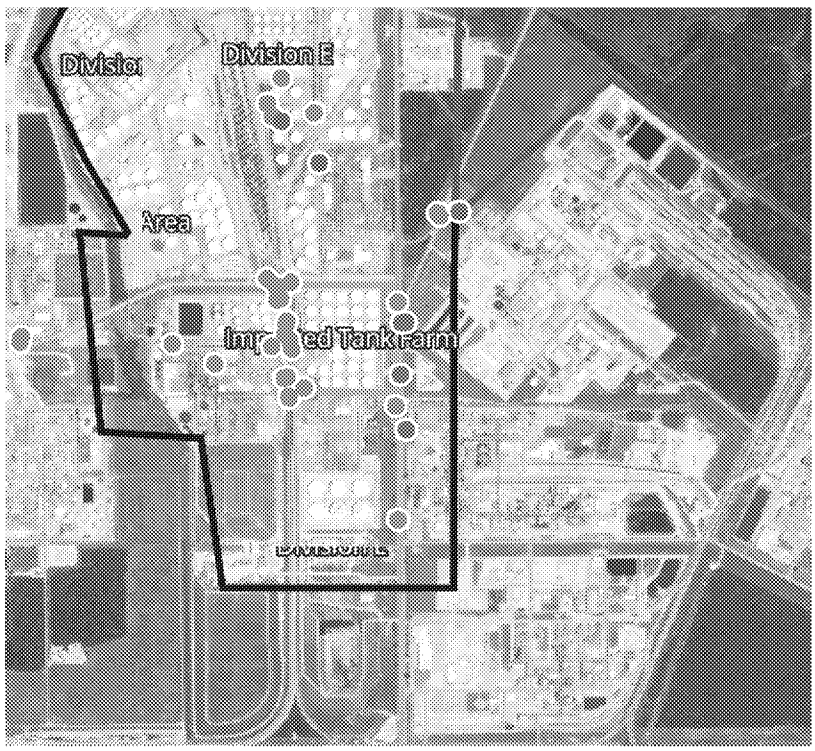
Attached are the benzene reports from 0000 – 0200.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 12:00:00 AM to 4/14/2019 1:00:00 AM



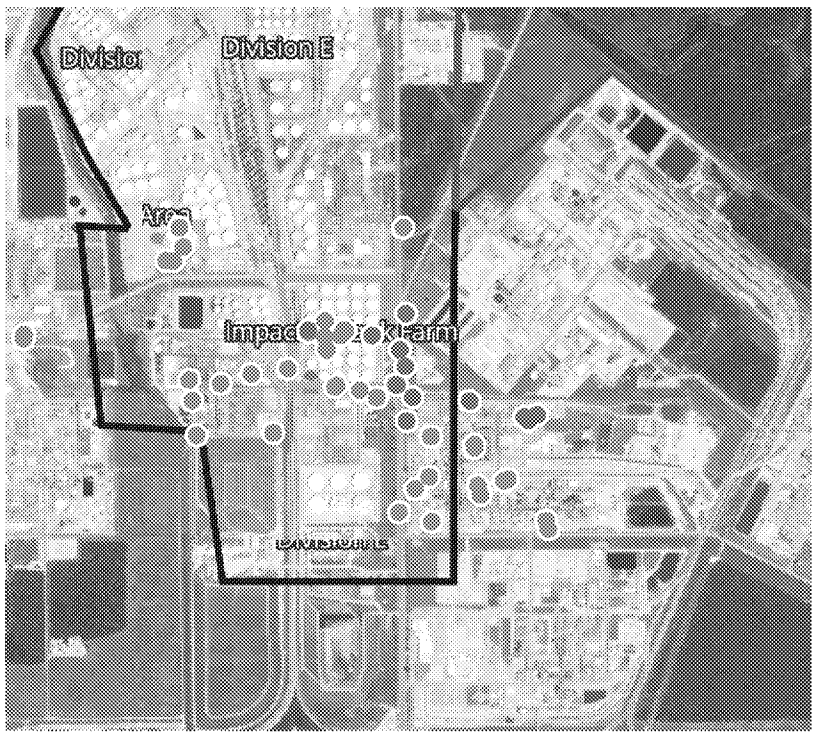
Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 00:07:43	0.0300 ppm
	4/14/2019 00:11:37	0.0700 ppm
	4/14/2019 00:15:07	0.1100 ppm
	4/14/2019 00:20:38	0.2000 ppm
	4/14/2019 00:21:07	0.2200 ppm
	4/14/2019 00:23:47	0.1600 ppm
	4/14/2019 00:52:59	0.0300 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 1:00:00 AM to 4/14/2019 2:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 01:07:23	0.0600 ppm
	4/14/2019 01:10:15	0.0400 ppm
	4/14/2019 01:47:25	0.0500 ppm
	4/14/2019 01:42:05	0.1800 ppm
	4/14/2019 01:52:05	0.0400 ppm
Impacted Tank Farm	4/14/2019 01:24:35	0.1500 ppm
	4/14/2019 01:37:17	0.0700 ppm
Industrial Area	4/14/2019 01:22:27	0.0600 ppm
	4/14/2019 01:16:49	0.0400 ppm
	4/14/2019 01:26:25	0.0600 ppm
	4/14/2019 01:51:13	0.0500 ppm
	4/14/2019 01:24:27	0.0700 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Jacob Bird [jbird@cteh.com]
Sent: 4/13/2019 3:17:23 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190413_1000_Benzene_Report.pdf; 20190413_0900_Benzene_Report.pdf

All,

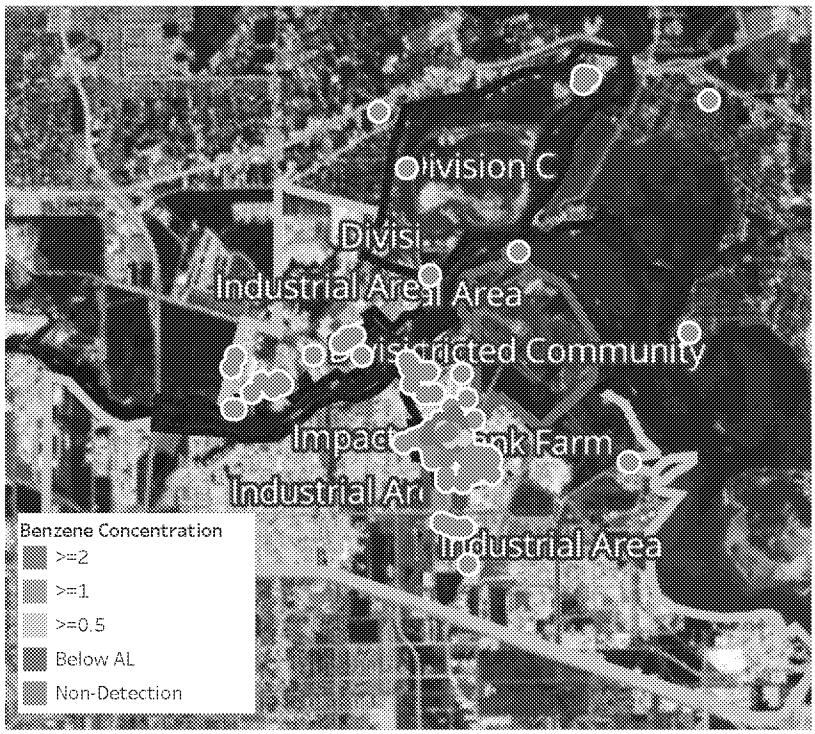
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

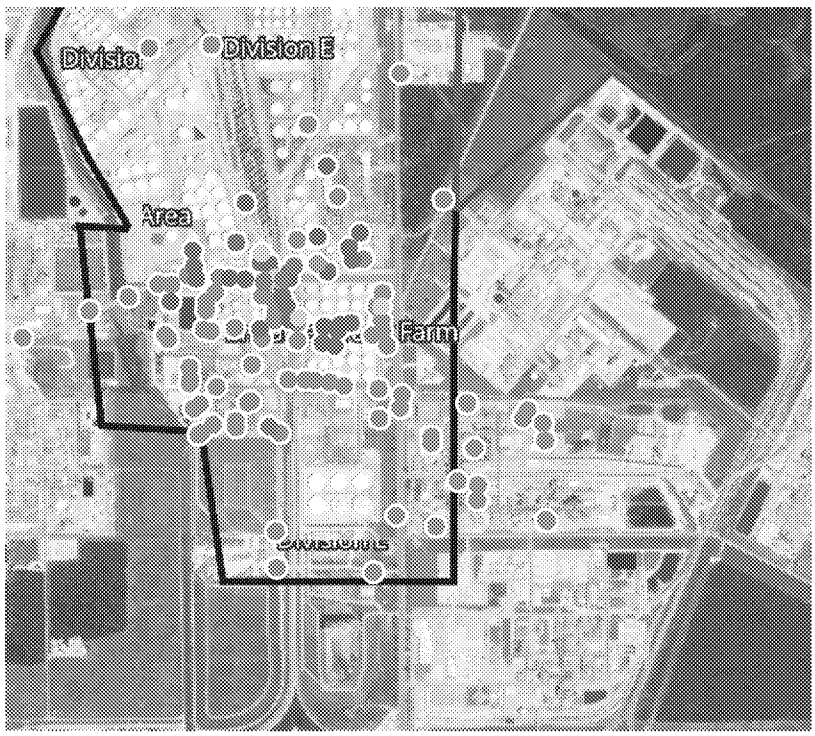
Sincerely,

Jacob Bird, BS
Director, Logistics & Operations Support
CTEH, LLC
Office: 501-801-8628 | Mobile: 501-366-3074
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jbird@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 8:00:00 AM to 4/13/2019 9:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 08:03:51	0.130 ppm
	4/13/2019 08:06:39	0.120 ppm
	4/13/2019 08:09:05	0.450 ppm
	4/13/2019 08:08:04	0.050 ppm
	4/13/2019 08:13:31	0.330 ppm
	4/13/2019 08:16:20	0.100 ppm
	4/13/2019 08:17:41	0.300 ppm
	4/13/2019 08:20:21	0.050 ppm
	4/13/2019 08:20:56	0.210 ppm
	4/13/2019 08:25:45	0.050 ppm
	4/13/2019 08:22:44	4.000 ppm
	4/13/2019 08:28:43	0.030 ppm
	4/13/2019 08:29:31	6.640 ppm
	4/13/2019 08:31:18	0.150 ppm
	4/13/2019 08:30:02	3.400 ppm
	4/13/2019 08:35:43	0.080 ppm
	4/13/2019 08:40:48	0.150 ppm
	4/13/2019 08:40:53	0.540 ppm
	4/13/2019 08:45:32	0.210 ppm
	4/13/2019 08:48:46	0.710 ppm
	4/13/2019 08:51:31	0.090 ppm
	4/13/2019 08:43:27	0.375 ppm
	4/13/2019 08:51:56	2.650 ppm
	4/13/2019 08:48:44	0.510 ppm
	4/13/2019 08:58:46	0.190 ppm
	4/13/2019 08:32:35	0.030 ppm
	4/13/2019 08:36:55	0.540 ppm
	4/13/2019 08:47:09	0.150 ppm
	4/13/2019 08:46:21	0.480 ppm
	4/13/2019 08:57:46	0.050 ppm
	4/13/2019 08:54:38	0.100 ppm
	4/13/2019 08:38:13	0.200 ppm
	4/13/2019 08:56:20	0.330 ppm
	4/13/2019 08:42:07	0.380 ppm
	4/13/2019 08:14:56	0.020 ppm
	4/13/2019 08:39:33	2.500 ppm
	4/13/2019 08:50:35	0.280 ppm
	4/13/2019 08:52:27	0.340 ppm
	4/13/2019 08:56:39	0.020 ppm
	4/13/2019 08:42:58	0.150 ppm
Impacted Tank Farm	4/13/2019 08:15:23	0.300 ppm
	4/13/2019 09:10:31	0.470 ppm
	4/13/2019 08:24:17	0.080 ppm
	4/13/2019 09:23:37	0.450 ppm
	4/13/2019 08:26:58	0.080 ppm
	4/13/2019 08:36:19	0.060 ppm
	4/13/2019 08:45:07	0.140 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 8:00:00 AM to 4/13/2019 9:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

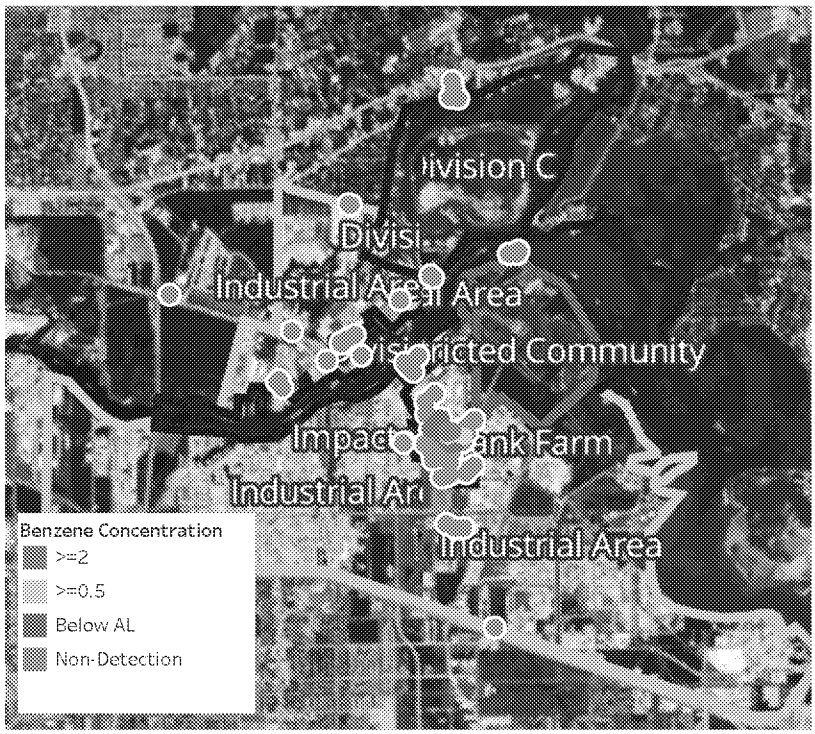
Recent Benzene Detections Greater than 1.00 ppm

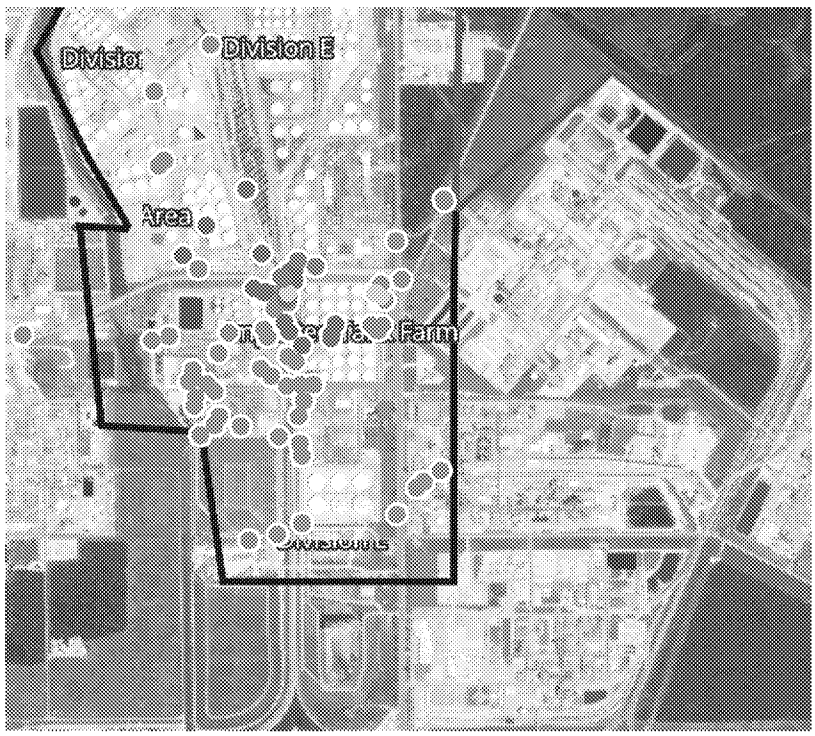
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 08:51:56	Division E	29.7292400,-95.0938050	https://www.google.com/maps/search/?api=1&query=29.7292400,-95.0938050	2.600 ppm
4/13/2019 08:39:33	Division E	29.7330870,-95.0939770	https://www.google.com/maps/search/?api=1&query=29.7330870,-95.0939770	2.500 ppm
4/13/2019 08:30:02	Division E	29.7255540,-95.0923420	https://www.google.com/maps/search/?api=1&query=29.7255540,-95.0923420	1.400 ppm
4/13/2019 08:29:31	Division E	29.7351290,-95.0934010	https://www.google.com/maps/search/?api=1&query=29.7351290,-95.0934010	6.640 ppm
4/13/2019 08:22:44	Division E	29.7334960,-95.0930500	https://www.google.com/maps/search/?api=1&query=29.7334960,-95.0930500	4.000 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 9:00:00 AM to 4/13/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 09:07:40	0.130 ppm
	4/13/2019 09:10:04	0.090 ppm
	4/13/2019 09:11:25	0.180 ppm
	4/13/2019 09:14:11	0.130 ppm
	4/13/2019 09:14:13	0.210 ppm
	4/13/2019 09:18:17	3.530 ppm
	4/13/2019 09:26:24	0.100 ppm
	4/13/2019 09:25:09	0.340 ppm
	4/13/2019 09:28:44	0.030 ppm
	4/13/2019 09:35:41	0.020 ppm
	4/13/2019 09:34:40	0.290 ppm
	4/13/2019 09:39:16	0.110 ppm
	4/13/2019 09:41:02	0.170 ppm
	4/13/2019 09:45:59	0.200 ppm
	4/13/2019 09:46:25	0.040 ppm
	4/13/2019 09:50:20	2.020 ppm
	4/13/2019 09:52:55	6.000 ppm
	4/13/2019 09:59:09	8.400 ppm
Impacted Tank Farm	4/13/2019 09:02:23	0.525 ppm
	4/13/2019 09:08:19	0.200 ppm
	4/13/2019 09:06:44	0.060 ppm
	4/13/2019 09:12:16	0.150 ppm
	4/13/2019 09:22:04	0.125 ppm
	4/13/2019 09:22:55	0.180 ppm
	4/13/2019 09:38:07	0.840 ppm
	4/13/2019 09:45:31	0.090 ppm
	4/13/2019 09:55:46	0.750 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 9:00:00 AM to 4/13/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 09:59:09	Division E	29.7534790,-95.0923960	https://www.google.com/maps/search/?api=1&query=29.7534790,-95.0923960	8.400 ppm
4/13/2019 09:52:55	Division E	29.7336310,-95.0929310	https://www.google.com/maps/search/?api=1&query=29.7336310,-95.0929310	6.000 ppm
4/13/2019 09:50:20	Division E	29.7352040,-95.0934430	https://www.google.com/maps/search/?api=1&query=29.7352040,-95.0934430	2.020 ppm
4/13/2019 09:18:17	Division E	29.7351630,-95.0933630	https://www.google.com/maps/search/?api=1&query=29.7351630,-95.0933630	3.530 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 5:28:47 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2400 Benzene Update
Attachments: 20190413_2300_benzene_report.pdf; 20190414_0000_benzene_report.pdf

All,

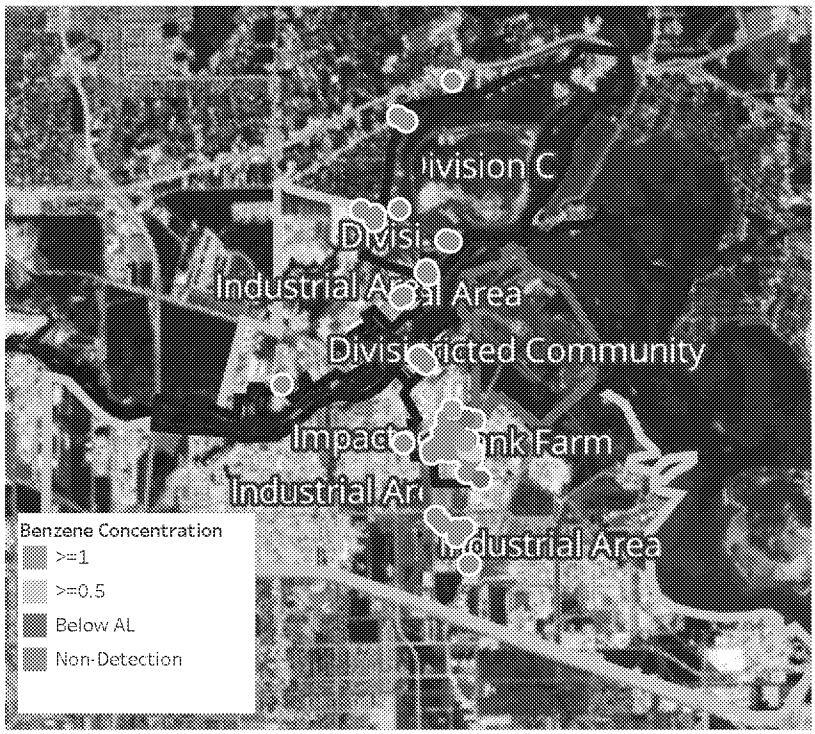
Attached are the benzene reports from 2200 – 2400.

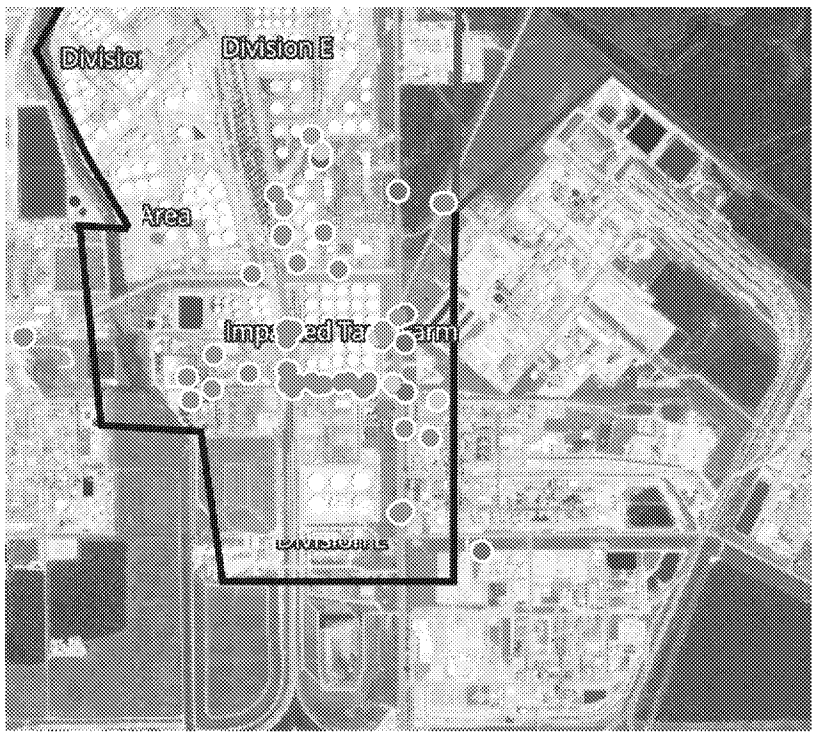
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 10:00:00 PM to 4/13/2019 11:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 22:09:29	0.380 ppm
	4/13/2019 22:17:10	0.260 ppm
	4/13/2019 22:30:12	0.030 ppm
	4/13/2019 22:46:58	0.650 ppm
	4/13/2019 22:36:24	0.080 ppm
	4/13/2019 22:42:17	0.210 ppm
	4/13/2019 22:44:11	1.850 ppm
	4/13/2019 22:53:34	0.710 ppm
	4/13/2019 22:58:09	1.510 ppm
	4/13/2019 22:52:47	0.260 ppm
Impacted Tank Farm	4/13/2019 22:46:54	0.300 ppm
	4/13/2019 22:49:53	0.980 ppm
	4/13/2019 22:44:23	0.440 ppm
	4/13/2019 22:46:20	1.100 ppm
	4/13/2019 22:53:36	0.600 ppm
	4/13/2019 22:59:01	1.350 ppm
	4/13/2019 22:52:49	0.740 ppm
	4/13/2019 22:55:17	0.100 ppm
	4/13/2019 22:59:14	0.200 ppm
	4/13/2019 22:56:57	0.740 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 10:00:00 PM to 4/13/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

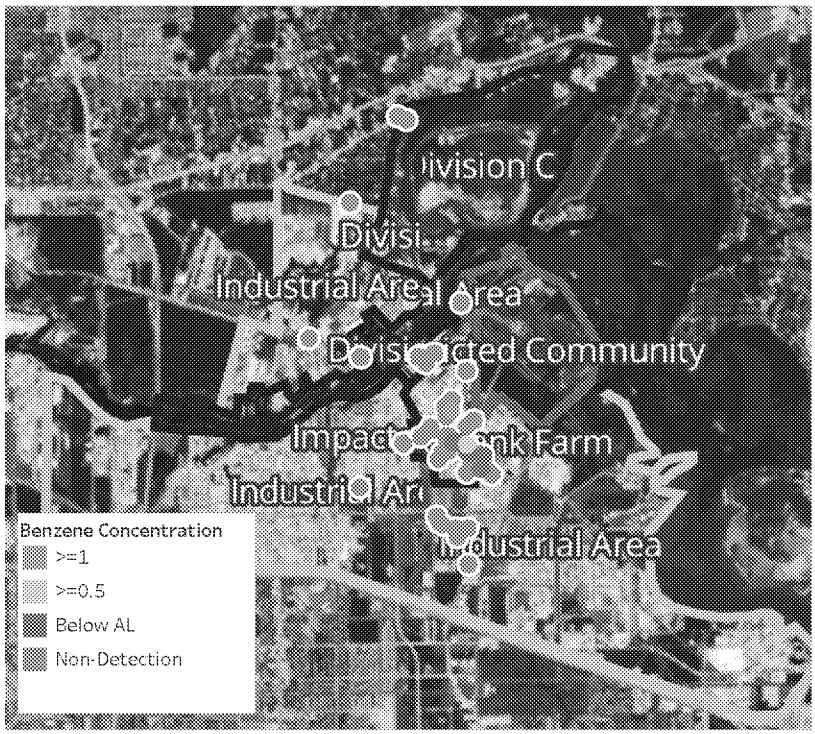
PRELIMINARY

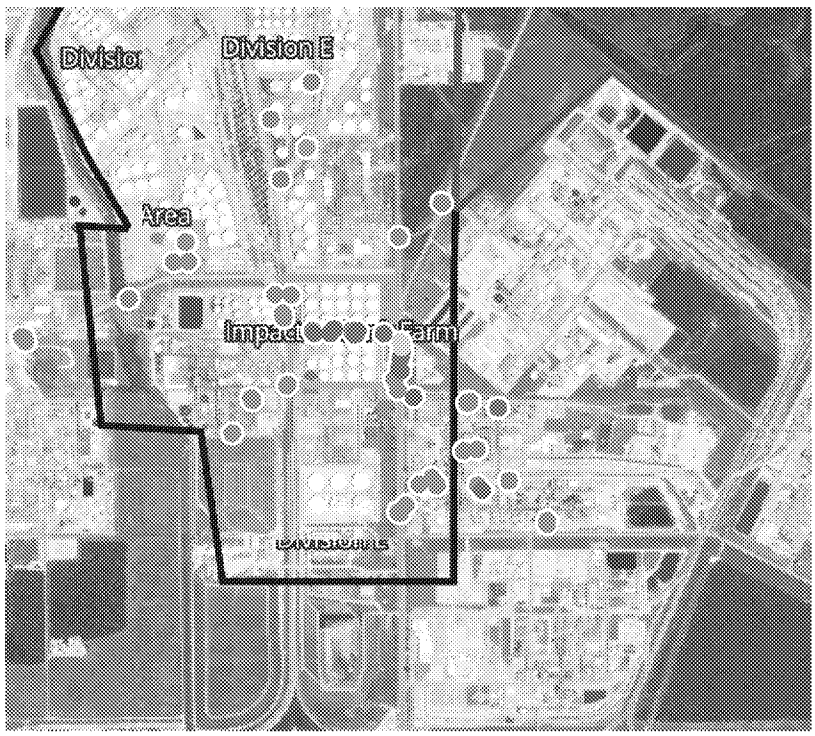
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 22:59:01	Impacted Tank Farm	29.7518070,-95.0903570	https://www.google.com/maps/search/?api=1&query=29.7518070,-95.0903570	1.2500 ppm
4/13/2019 22:58:09	Division E	29.7321420,-95.0896860	https://www.google.com/maps/search/?api=1&query=29.7321420,-95.0896860	1.5100 ppm
4/13/2019 22:46:20	Impacted Tank Farm	29.7316250,-95.0902720	https://www.google.com/maps/search/?api=1&query=29.7316250,-95.0902720	1.1000 ppm
4/13/2019 22:44:11	Division E	29.7369340,-95.0925220	https://www.google.com/maps/search/?api=1&query=29.7369340,-95.0925220	1.4500 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 11:00:00 PM to 4/14/2019 12:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 23:19:33	0.620 ppm
	4/13/2019 23:06:14	1.050 ppm
	4/13/2019 23:22:56	0.090 ppm
	4/13/2019 23:27:28	0.100 ppm
	4/13/2019 23:18:49	0.780 ppm
	4/13/2019 23:23:46	0.190 ppm
	4/13/2019 23:29:41	0.120 ppm
	4/13/2019 23:34:59	0.040 ppm
Impacted Tank Farm	4/13/2019 23:01:02	0.330 ppm
	4/13/2019 23:05:47	0.130 ppm
	4/13/2019 23:07:21	0.230 ppm
	4/13/2019 23:18:45	0.090 ppm
	4/13/2019 23:12:36	0.190 ppm
	4/13/2019 23:22:20	0.040 ppm
	4/13/2019 23:17:35	0.140 ppm
Industrial Area	4/13/2019 23:04:39	0.020 ppm
	4/13/2019 23:11:52	0.020 ppm
	4/13/2019 23:33:38	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 11:00:00 PM to 4/14/2019 12:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 23:06:14	Division E	29.7566220,-95.0926620	https://www.google.com/maps/search/?api=1&query=29.7566220,-95.0926620	1.000 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 3:15:46 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190413_2100_benzene_report.pdf; 20190413_2200_benzene_report.pdf

All,

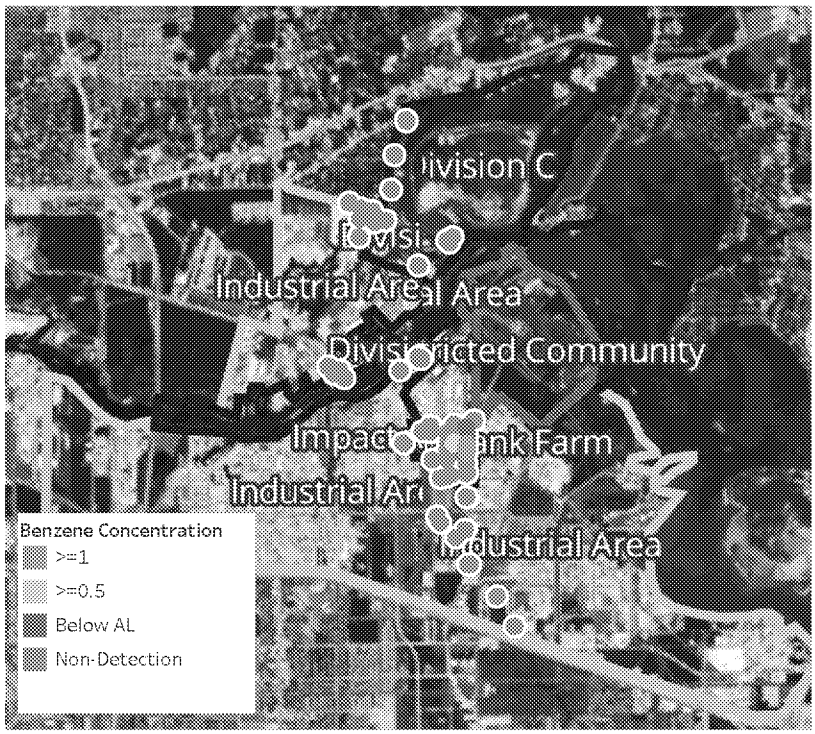
Attached are the benzene reports from 2000 – 2200.

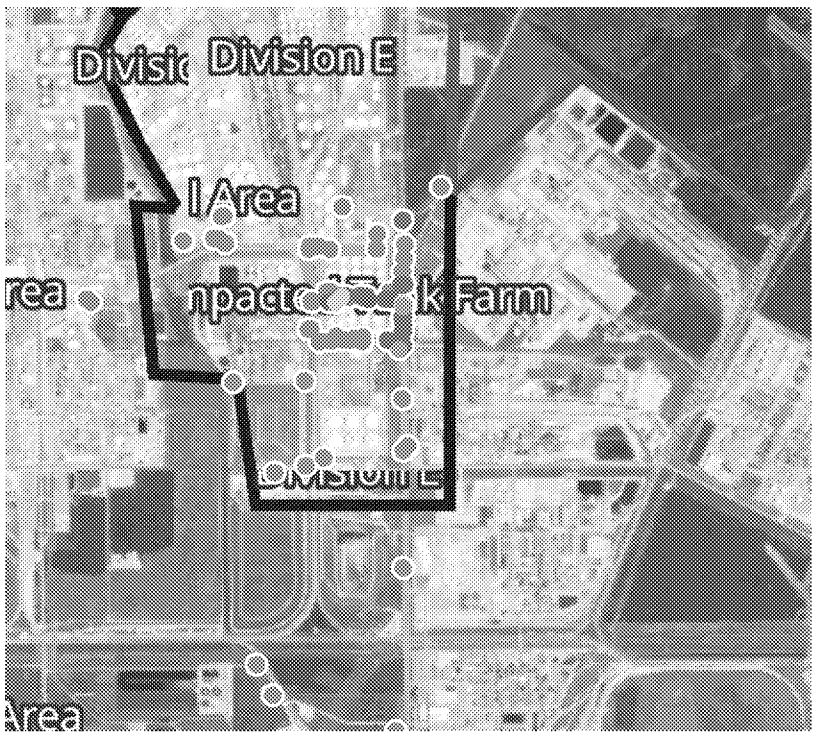
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 8:00:00 PM to 4/13/2019 9:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 20:00:19	0.340 ppm
	4/13/2019 20:00:28	0.030 ppm
	4/13/2019 20:09:39	1.030 ppm
	4/13/2019 20:05:59	0.410 ppm
	4/13/2019 20:12:01	0.100 ppm
	4/13/2019 20:13:46	0.070 ppm
	4/13/2019 20:03:54	0.030 ppm
	4/13/2019 20:18:54	0.080 ppm
	4/13/2019 20:17:33	0.140 ppm
	4/13/2019 20:22:38	0.080 ppm
	4/13/2019 20:22:12	0.120 ppm
	4/13/2019 20:29:09	0.430 ppm
	4/13/2019 20:27:10	0.170 ppm
	4/13/2019 20:29:35	0.050 ppm
	4/13/2019 20:38:08	0.270 ppm
	4/13/2019 20:48:45	0.020 ppm
Impacted Tank Farm	4/13/2019 20:00:01	0.380 ppm
	4/13/2019 20:04:10	0.060 ppm
	4/13/2019 20:02:55	0.760 ppm
	4/13/2019 20:02:48	0.300 ppm
	4/13/2019 20:16:36	0.160 ppm
	4/13/2019 20:16:59	0.260 ppm
	4/13/2019 20:20:44	0.240 ppm
	4/13/2019 20:20:56	0.520 ppm
	4/13/2019 20:32:31	0.050 ppm
	4/13/2019 20:41:01	0.100 ppm
	4/13/2019 20:42:25	0.060 ppm
	4/13/2019 20:40:43	1.230 ppm
	4/13/2019 20:46:33	0.100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 8:00:00 PM to 4/13/2019 9:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

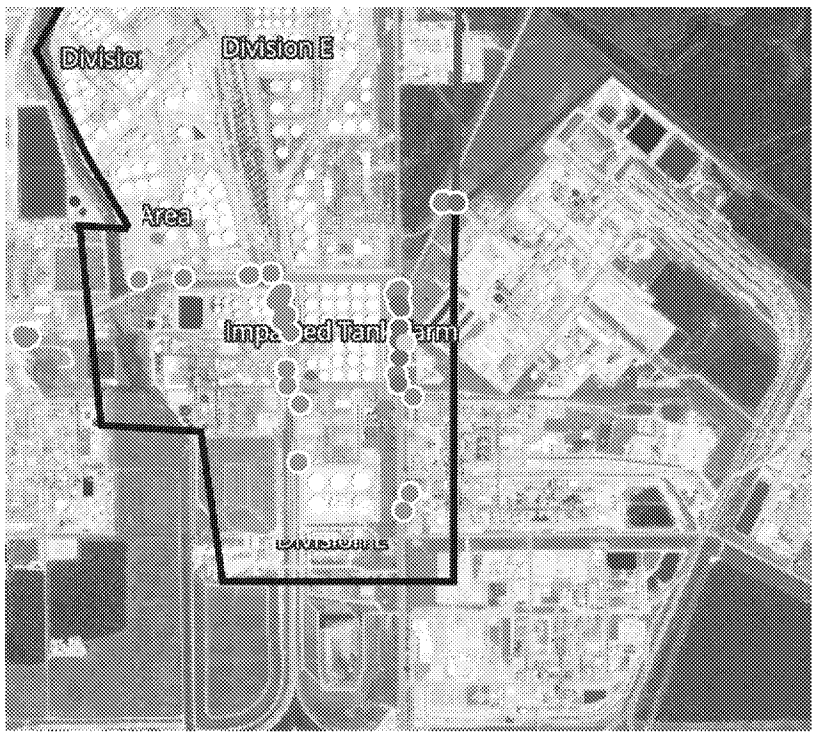
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 20:40:43	Impacted Tank Farm	29.7500570, -95.0900250	https://www.google.com/maps/search/?api=1&query=29.7500570,-95.0900250	1.2300 ppm
4/13/2019 20:09:39	Division E	29.7313970, -95.0898760	https://www.google.com/maps/search/?api=1&query=29.7313970,-95.0898760	1.0300 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 9:00:00 PM to 4/13/2019 10:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 21:36:14	0.3700 ppm
	4/13/2019 21:27:23	0.3900 ppm
	4/13/2019 21:31:00	0.1200 ppm
	4/13/2019 21:34:01	0.0400 ppm
	4/13/2019 21:41:11	0.2300 ppm
	4/13/2019 21:41:00	0.0600 ppm
	4/13/2019 21:49:06	0.0800 ppm
	4/13/2019 21:48:54	0.5900 ppm
	4/13/2019 21:57:49	0.0500 ppm
Restricted Community	4/13/2019 21:50:43	0.2100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 1:56:18 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 1800 Benzene Update
Attachments: 20190413_1700_benzene_report.pdf; 20190413_1800_benzene_report.pdf

All

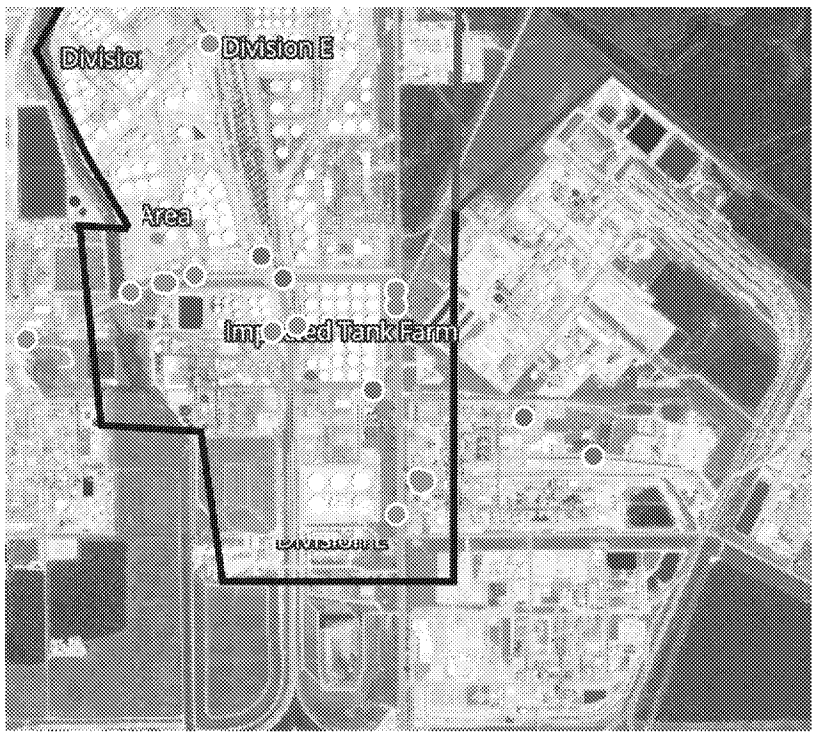
Attached are the benzene reports for 1600 -1800.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 4:00:00 PM to 4/13/2019 5:00:00 PM



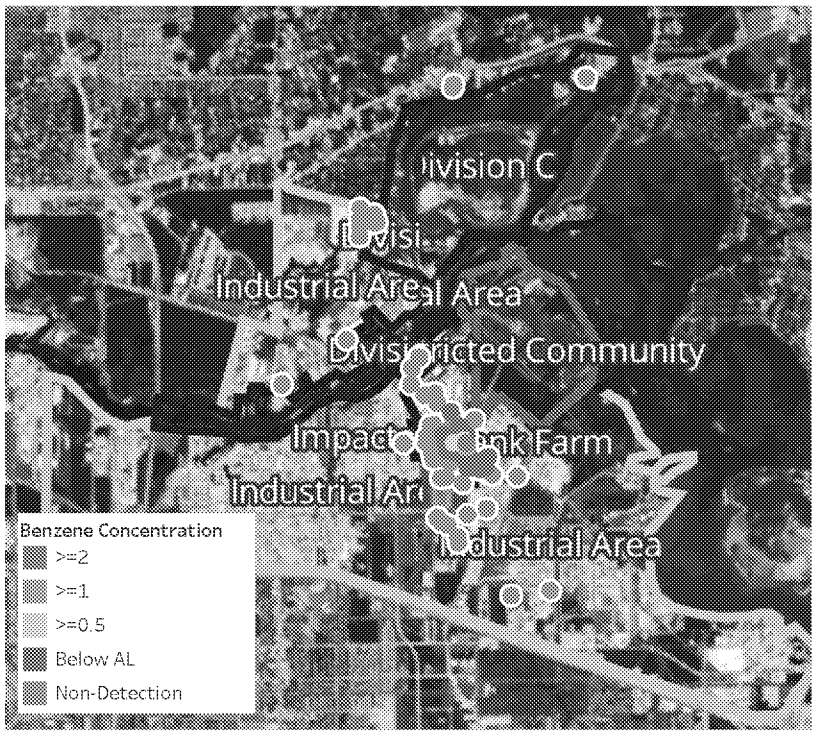
Recent Benzene Detections

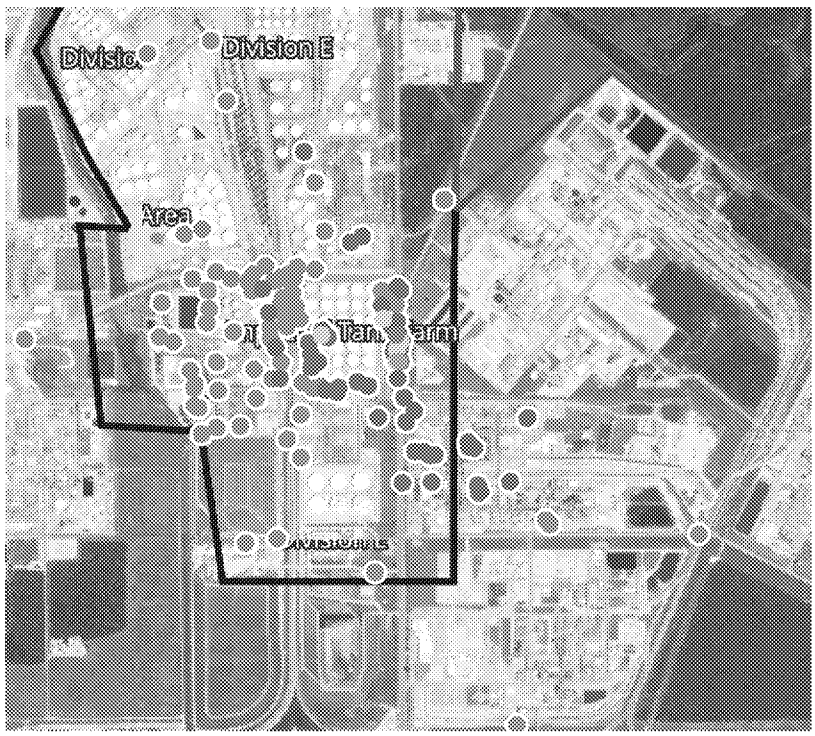
Location Category	Reading Date	Concentration
Division E	4/13/2019 16:01:44	0.1200 ppm
	4/13/2019 16:56:23	0.0200 ppm
	4/13/2019 16:45:05	0.1300 ppm
Industrial Area	4/13/2019 16:55:31	0.0600 ppm
	4/13/2019 16:57:45	0.0700 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 5:00:00 PM to 4/13/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 17:01:56	0.190 ppm
	4/13/2019 17:00:04	0.370 ppm
	4/13/2019 17:06:22	0.140 ppm
	4/13/2019 17:06:03	0.250 ppm
	4/13/2019 17:09:00	0.020 ppm
	4/13/2019 17:10:22	0.070 ppm
	4/13/2019 17:13:31	0.110 ppm
	4/13/2019 17:13:09	0.760 ppm
	4/13/2019 17:18:24	0.030 ppm
	4/13/2019 17:16:49	0.100 ppm
	4/13/2019 17:21:11	0.080 ppm
	4/13/2019 17:21:04	0.370 ppm
	4/13/2019 17:05:57	2.100 ppm
	4/13/2019 17:01:04	0.300 ppm
	4/13/2019 17:24:36	0.100 ppm
	4/13/2019 17:23:08	0.080 ppm
	4/13/2019 17:25:00	0.070 ppm
	4/13/2019 17:30:54	0.030 ppm
	4/13/2019 17:29:28	0.030 ppm
	4/13/2019 17:34:05	0.030 ppm
	4/13/2019 17:33:25	0.820 ppm
	4/13/2019 17:37:30	0.820 ppm
	4/13/2019 17:37:17	0.110 ppm
	4/13/2019 17:39:14	0.850 ppm
	4/13/2019 17:26:08	0.200 ppm
	4/13/2019 17:52:34	0.090 ppm
	4/13/2019 17:57:16	0.440 ppm
	4/13/2019 17:56:10	0.310 ppm
	4/13/2019 17:57:49	0.100 ppm
	4/13/2019 17:59:05	1.210 ppm
Impacted Tank Farm	4/13/2019 17:06:01	0.570 ppm
	4/13/2019 17:15:50	0.900 ppm
	4/13/2019 17:19:30	0.270 ppm
	4/13/2019 17:25:01	0.430 ppm
	4/13/2019 17:33:58	0.120 ppm
	4/13/2019 17:42:36	0.050 ppm
	4/13/2019 17:44:32	0.190 ppm
	4/13/2019 17:47:00	0.090 ppm
	4/13/2019 17:52:21	0.060 ppm
	4/13/2019 17:59:45	0.080 ppm
Industrial Area	4/13/2019 17:09:09	0.030 ppm
	4/13/2019 17:01:21	0.040 ppm
	4/13/2019 17:05:07	0.020 ppm
	4/13/2019 17:02:46	0.060 ppm
	4/13/2019 17:04:01	0.050 ppm
	4/13/2019 17:16:14	0.040 ppm
	4/13/2019 17:11:19	0.030 ppm
	4/13/2019 17:17:18	0.030 ppm
	4/13/2019 17:23:09	0.100 ppm
	4/13/2019 17:25:46	0.050 ppm
	4/13/2019 17:23:49	0.070 ppm
	4/13/2019 17:32:56	0.040 ppm
	4/13/2019 17:26:38	0.050 ppm
	4/13/2019 17:34:23	0.030 ppm
	4/13/2019 17:58:57	0.040 ppm
Restricted Community	4/13/2019 17:14:57	0.100 ppm
	4/13/2019 17:19:26	0.240 ppm
	4/13/2019 17:23:42	0.040 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 5:00:00 PM to 4/13/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 17:59:05	Division E	29.7509760,-95.0898630	https://www.google.com/maps/search/?api=1&query=29.7509760,-95.0898630	1.2300 ppm
4/13/2019 17:05:57	Division E	29.7316750,-95.0899330	https://www.google.com/maps/search/?api=1&query=29.7316750,-95.0899330	2.1000 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 1:35:49 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2000 Benzene Update
Attachments: 20190413_1900_benzene_report.pdf; 20190413_2000_benzene_report.pdf

All,

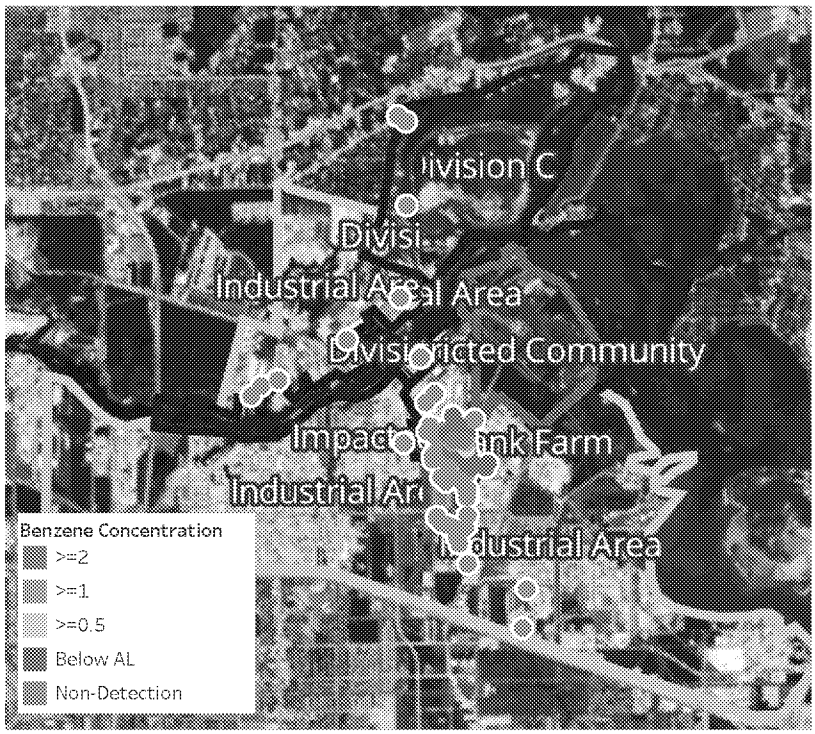
Attached are the benzene reports for 1800 – 2000.

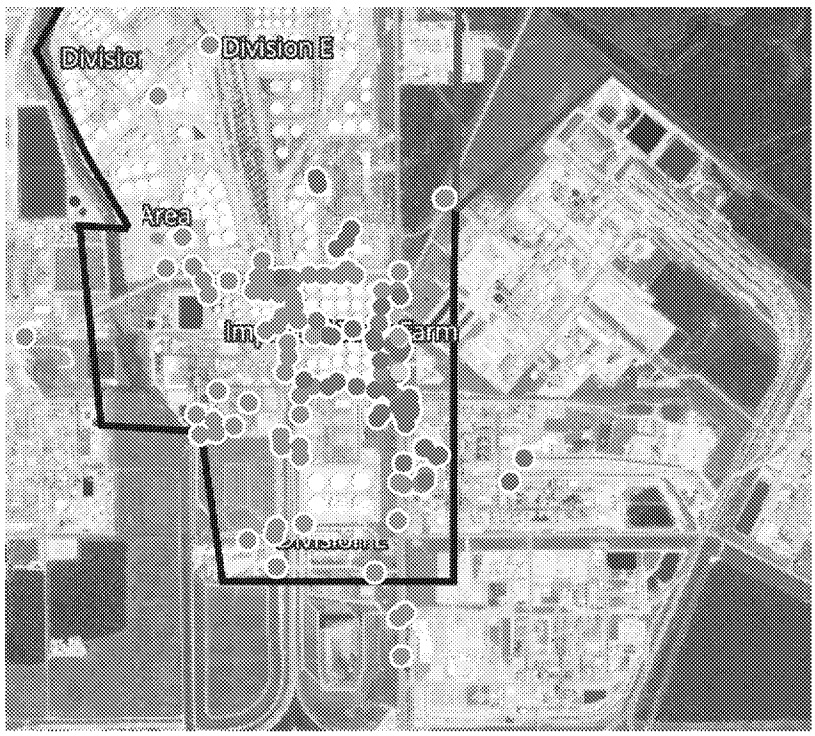
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 6:00:00 PM to 4/13/2019 7:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 18:01:38	0.350 ppm
	4/13/2019 18:01:26	0.040 ppm
	4/13/2019 18:06:34	0.100 ppm
	4/13/2019 18:06:59	0.200 ppm
	4/13/2019 18:19:20	0.030 ppm
	4/13/2019 18:22:48	0.060 ppm
	4/13/2019 18:22:31	0.050 ppm
	4/13/2019 18:10:12	0.060 ppm
	4/13/2019 18:25:43	0.210 ppm
	4/13/2019 18:16:33	0.090 ppm
	4/13/2019 18:28:31	0.090 ppm
	4/13/2019 18:20:05	0.020 ppm
	4/13/2019 18:31:40	0.050 ppm
	4/13/2019 18:33:39	0.430 ppm
	4/13/2019 18:28:48	0.130 ppm
	4/13/2019 18:38:28	0.030 ppm
	4/13/2019 18:37:19	0.090 ppm
	4/13/2019 18:42:16	0.040 ppm
	4/13/2019 18:45:47	0.030 ppm
	4/13/2019 18:48:07	0.840 ppm
	4/13/2019 18:48:24	0.090 ppm
	4/13/2019 18:49:18	0.030 ppm
	4/13/2019 18:52:17	0.030 ppm
	4/13/2019 18:51:44	0.640 ppm
	4/13/2019 18:55:23	0.070 ppm
	4/13/2019 18:57:23	0.060 ppm
	4/13/2019 18:48:06	1.110 ppm
Impacted Tank Farm	4/13/2019 18:06:03	0.390 ppm
	4/13/2019 18:00:43	2.480 ppm
	4/13/2019 18:14:15	0.170 ppm
	4/13/2019 18:19:08	0.220 ppm
	4/13/2019 18:28:19	0.200 ppm
	4/13/2019 18:34:24	0.200 ppm
	4/13/2019 18:39:26	0.250 ppm
	4/13/2019 18:49:11	1.250 ppm
	4/13/2019 18:46:58	0.100 ppm
	4/13/2019 18:59:42	8.600 ppm
Industrial Area	4/13/2019 18:00:36	0.040 ppm
	4/13/2019 18:13:58	0.050 ppm
	4/13/2019 18:21:42	0.030 ppm
	4/13/2019 18:39:27	0.040 ppm
	4/13/2019 18:40:12	0.040 ppm
	4/13/2019 18:42:21	0.020 ppm
	4/13/2019 18:43:30	0.070 ppm
	4/13/2019 18:49:51	0.200 ppm
	4/13/2019 18:52:30	0.020 ppm
	4/13/2019 18:50:40	0.130 ppm
	4/13/2019 18:53:46	0.040 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 6:00:00 PM to 4/13/2019 7:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

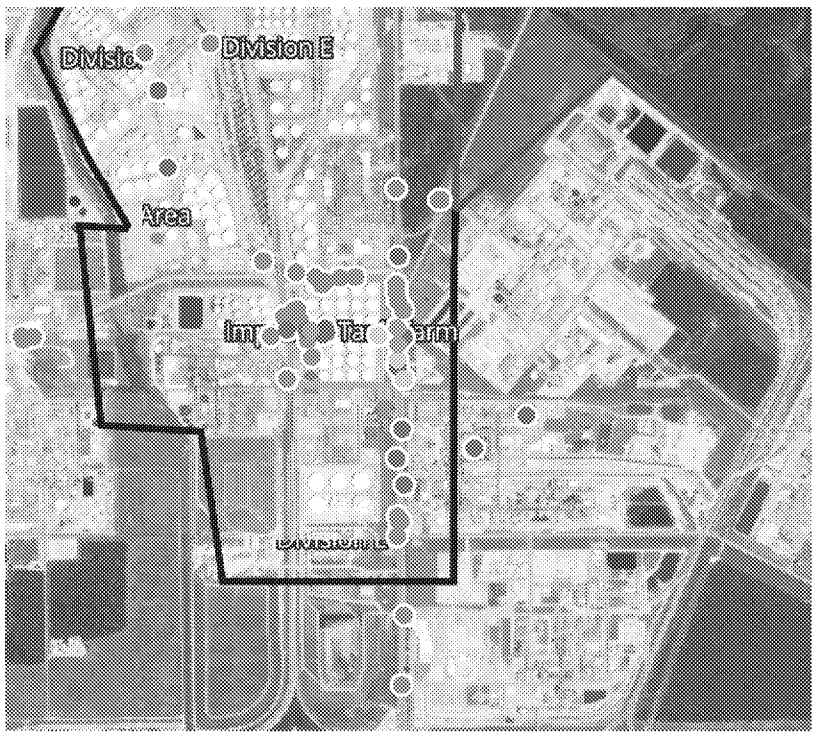
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 18:59:42	Impacted Tank Farm	29.7520520,-95.0923640	https://www.google.com/maps/search/?api=1&query=29.7520520,-95.0923640	8.600 ppm
4/13/2019 18:49:11	Impacted Tank Farm	29.7317610,-95.0924640	https://www.google.com/maps/search/?api=1&query=29.7317610,-95.0924640	1.450 ppm
4/13/2019 18:48:06	Division E	29.7316250,-95.0898790	https://www.google.com/maps/search/?api=1&query=29.7316250,-95.0898790	1.110 ppm
4/13/2019 18:00:43	Impacted Tank Farm	29.7319770,-95.0904650	https://www.google.com/maps/search/?api=1&query=29.7319770,-95.0904650	2.480 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 7:00:00 PM to 4/13/2019 8:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 19:00:59	0.050 ppm
	4/13/2019 19:03:39	0.030 ppm
	4/13/2019 19:01:04	0.100 ppm
	4/13/2019 19:05:02	0.010 ppm
	4/13/2019 19:03:18	0.810 ppm
	4/13/2019 19:00:19	1.190 ppm
	4/13/2019 19:06:52	0.510 ppm
	4/13/2019 19:11:35	0.450 ppm
	4/13/2019 19:24:49	0.020 ppm
	4/13/2019 19:28:00	0.070 ppm
	4/13/2019 19:28:33	0.190 ppm
	4/13/2019 19:35:55	1.080 ppm
	4/13/2019 19:42:05	0.030 ppm
Impacted Tank Farm	4/13/2019 19:02:15	0.700 ppm
	4/13/2019 19:07:47	0.080 ppm
	4/13/2019 19:44:49	0.250 ppm
	4/13/2019 19:52:43	0.190 ppm
	4/13/2019 19:47:34	1.010 ppm
	4/13/2019 19:54:37	0.170 ppm
Industrial Area	4/13/2019 19:00:02	0.080 ppm
	4/13/2019 19:02:09	0.150 ppm
	4/13/2019 19:07:45	0.050 ppm
	4/13/2019 19:12:04	0.110 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 7:00:00 PM to 4/13/2019 8:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

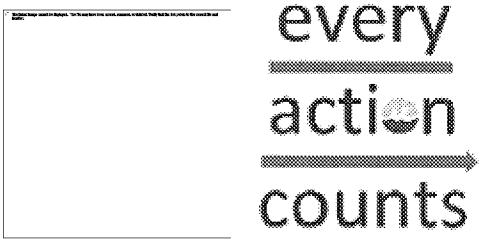
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 19:47:34	Impacted Tank Farm	29.7517910,-95.0925590	https://www.google.com/maps/search/?api=1&query=29.7517910,-95.0925590	1.0100 ppm
4/13/2019 19:35:55	Division E	29.7318570,-95.0899030	https://www.google.com/maps/search/?api=1&query=29.7318570,-95.0899030	1.0800 ppm
4/13/2019 19:00:19	Division E	29.7314170,-95.0896810	https://www.google.com/maps/search/?api=1&query=29.7314170,-95.0896810	1.1900 ppm

Message

From: Reid McLelland [RMcLelland@iterm.com]
Sent: 4/18/2019 9:54:55 PM
To: 'spill12@tceq.texas.gov' [spill12@tceq.texas.gov]; 'craig.hill@pcs.hctx.net' [craig.hill@pcs.hctx.net]; 'johnathan.martin@pcs.hctx.net' [johnathan.martin@pcs.hctx.net]; 'b.latham@WestonSolutions.com' [b.latham@WestonSolutions.com]; 'uscgimdhouston@gmail.com' [uscgimdhouston@gmail.com]; 'nicole.bealle@tceq.texas.gov' [nicole.bealle@tceq.texas.gov]; 'alma.walker@tceq.texas.gov' [alma.walker@tceq.texas.gov]; Quiroz Guadalupe_TCEQ [Guadalupe.quiroz@tceq.texas.gov]; 'andy.goodridge@tceq.texas.gov' [andy.goodridge@tceq.texas.gov]; 'karina.roche@tceq.texas.gov' [karina.roche@tceq.texas.gov]; 'westin.massey@tceq.texas.gov' [westin.massey@tceq.texas.gov]; 'nicole.d.rodriguez@uscg.mil' [nicole.d.rodriguez@uscg.mil]; Patel, Anish [patel.anish@epa.gov]; Spall, Amy [amy.spall@westonsolutions.com]
CC: 'harrison.reback@bakerbotts.com' [harrison.reback@bakerbotts.com]; matthew.kuryla@bakerbotts.com; Mike Taylor [mtaylor@iterm.com]; Reid McLelland [RMcLelland@iterm.com]; Mike Gaudet [MGaudet@iterm.com]; 'mark.hamlin@bakerbotts.com' [mark.hamlin@bakerbotts.com]
Subject: Latest Water Sampling
Attachments: ATT00001.txt; HS19040847 Gate 13 Ditch Results.pdf; HS19040928 Gate 13 Ditch Pelim Results.pdf; HS19040847 Gate 13 Ditch Final.pdf

See attached

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/13/2019 11:05:35 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Reports
Attachments: 20190413_1700_Benzene_Report.pdf; 20190413_1800_Benzene_Report.pdf

All,

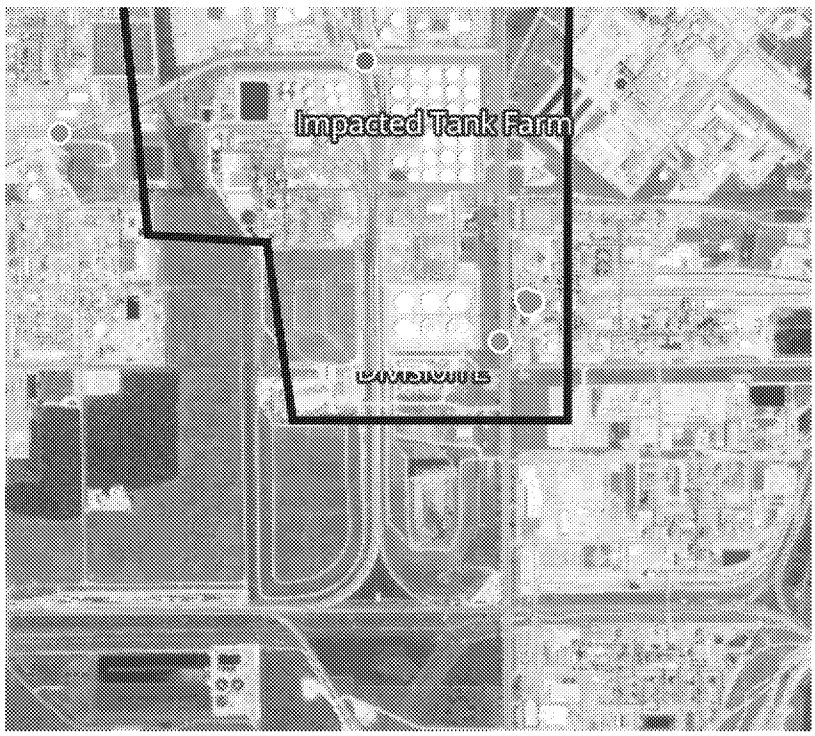
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 4:00:00 PM to 4/13/2019 5:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 16:01:44	0.1200 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 4:00:00 PM to 4/13/2019 5:00:00 PM

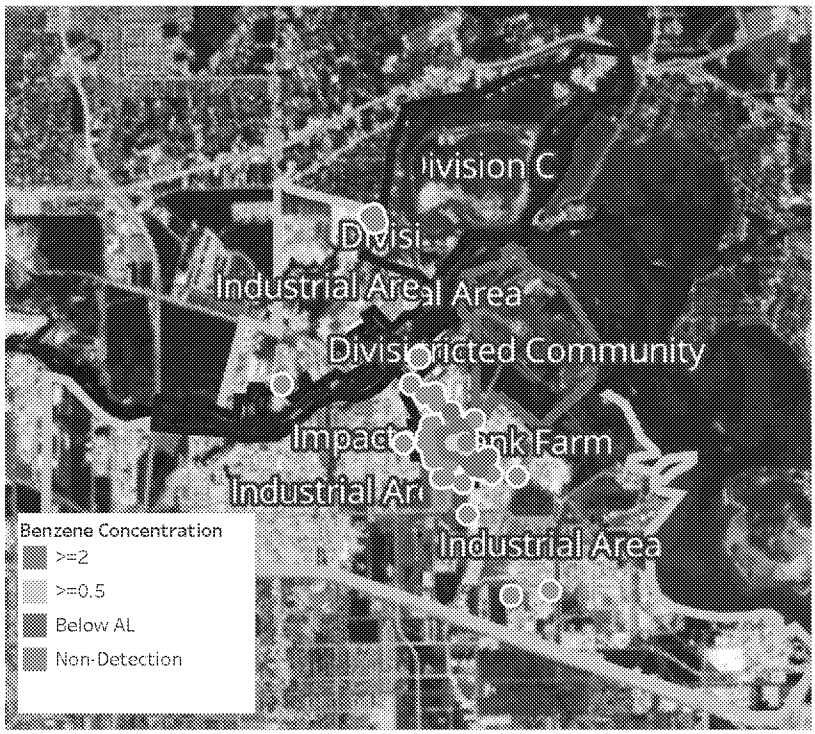
Benzene Action Level Concentration (ppm)

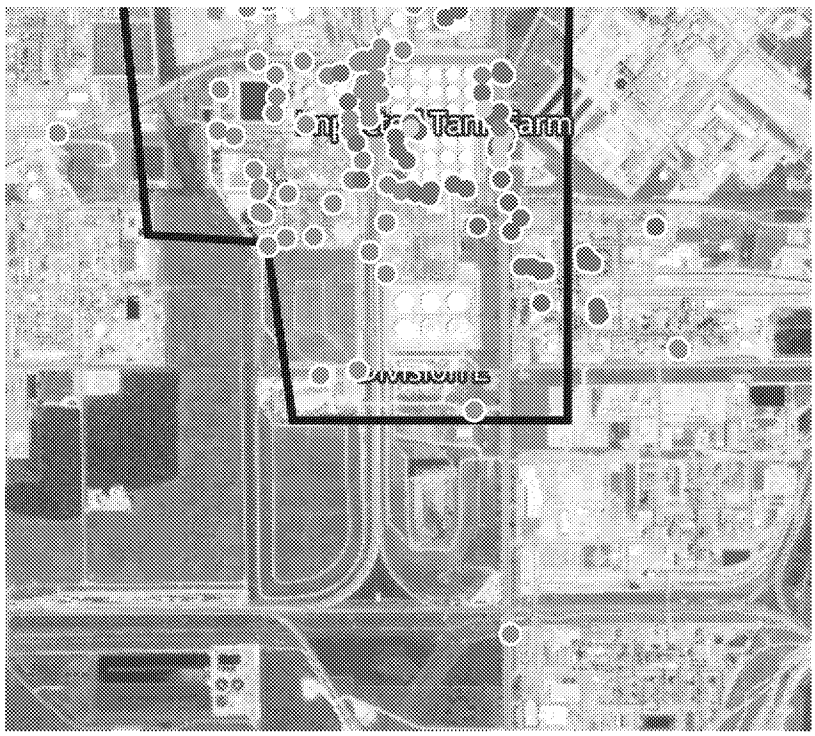
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 5:00:00 PM to 4/13/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 17:01:56	0.190 ppm
	4/13/2019 17:00:04	0.370 ppm
	4/13/2019 17:06:22	0.140 ppm
	4/13/2019 17:06:03	0.250 ppm
	4/13/2019 17:09:00	0.020 ppm
	4/13/2019 17:10:22	0.070 ppm
	4/13/2019 17:13:31	0.110 ppm
	4/13/2019 17:13:09	0.290 ppm
	4/13/2019 17:16:24	0.030 ppm
	4/13/2019 17:16:49	0.100 ppm
	4/13/2019 17:21:11	0.080 ppm
	4/13/2019 17:21:04	0.370 ppm
	4/13/2019 17:05:57	2.100 ppm
	4/13/2019 17:01:04	0.300 ppm
	4/13/2019 17:24:36	0.100 ppm
	4/13/2019 17:23:08	0.080 ppm
	4/13/2019 17:25:00	0.070 ppm
	4/13/2019 17:30:54	0.030 ppm
	4/13/2019 17:29:28	0.030 ppm
	4/13/2019 17:34:05	0.030 ppm
	4/13/2019 17:33:25	0.970 ppm
	4/13/2019 17:37:30	0.970 ppm
	4/13/2019 17:37:17	0.110 ppm
	4/13/2019 17:39:14	0.990 ppm
	4/13/2019 17:26:08	0.200 ppm
	4/13/2019 17:52:34	0.090 ppm
Impacted Tank Farm	4/13/2019 17:06:01	0.570 ppm
	4/13/2019 17:15:50	0.800 ppm
	4/13/2019 17:19:30	0.270 ppm
	4/13/2019 17:25:01	0.430 ppm
	4/13/2019 17:33:58	0.120 ppm
	4/13/2019 17:42:56	0.050 ppm
	4/13/2019 17:44:52	0.190 ppm
	4/13/2019 17:47:00	0.090 ppm
	4/13/2019 17:52:21	0.060 ppm
Industrial Area	4/13/2019 17:09:09	0.030 ppm
	4/13/2019 17:01:21	0.040 ppm
	4/13/2019 17:05:07	0.020 ppm
	4/13/2019 17:02:46	0.060 ppm
	4/13/2019 17:04:01	0.050 ppm
	4/13/2019 17:16:14	0.040 ppm
	4/13/2019 17:11:19	0.030 ppm
	4/13/2019 17:17:18	0.030 ppm
	4/13/2019 17:23:09	0.100 ppm
	4/13/2019 17:25:46	0.050 ppm
	4/13/2019 17:23:49	0.070 ppm
	4/13/2019 17:32:56	0.040 ppm
	4/13/2019 17:26:38	0.050 ppm
	4/13/2019 17:34:23	0.030 ppm
Restricted Community	4/13/2019 17:14:57	0.100 ppm
	4/13/2019 17:19:26	0.240 ppm
	4/13/2019 17:23:42	0.040 ppm

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Reading Date
4/13/2019 5:00:00 PM to 4/13/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 17:05:57	Division E	29.7516750,-95.0899330	https://www.google.com/maps/search/?api=1&query=29.7516750,-95.0899330	2.300 ppm

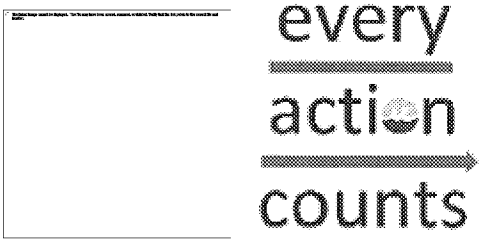
Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Reid McLelland [RMcLelland@iterm.com]
Sent: 4/13/2019 1:37:47 PM
To: 'spill12@tceq.texas.gov' [spill12@tceq.texas.gov]; 'craig.hill@pcs.hctx.net' [craig.hill@pcs.hctx.net]; 'johnathan.martin@pcs.hctx.net' [johnathan.martin@pcs.hctx.net]; 'b.latham@WestonSolutions.com' [b.latham@WestonSolutions.com]; 'uscgimdhouston@gmail.com' [uscgimdhouston@gmail.com]; 'nicole.bealle@tceq.texas.gov' [nicole.bealle@tceq.texas.gov]; 'alma.walker@tceq.texas.gov' [alma.walker@tceq.texas.gov]; Quiroz Guadalupe_TCEQ [Guadalupe.quiroz@tceq.texas.gov]; 'andy.goodridge@tceq.texas.gov' [andy.goodridge@tceq.texas.gov]; 'karina.roche@tceq.texas.gov' [karina.roche@tceq.texas.gov]; 'westin.massey@tceq.texas.gov' [westin.massey@tceq.texas.gov]; 'nicole.d.rodriguez@uscg.mil' [nicole.d.rodriguez@uscg.mil]; Patel, Anish [patel.anish@epa.gov]; Spall, Amy [amy.spall@westonsolutions.com]
CC: 'harrison.reback@bakerbotts.com' [harrison.reback@bakerbotts.com]; matthew.kuryla@bakerbotts.com; Mike Taylor [mtaylor@iterm.com]; Reid McLelland [RMcLelland@iterm.com]; Mike Gaudet [MGaudet@iterm.com]; 'mark.hamlin@bakerbotts.com' [mark.hamlin@bakerbotts.com]
Subject: Latest Water Sampling
Attachments: ATT00001.txt; HS19040405 Gate 13 Ditch Results.pdf; HS19040500 Gate 13 Ditch Final.pdf; HS19040566 Gate 13 Ditch Final.pdf; HS19040566 Gate 13 Ditch VOC,COD OG Results.pdf; HS19040405 Gate 13 Ditch Final.pdf

Please see attached sampling results.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Jacob Bird [jbird@cteh.com]
Sent: 4/13/2019 1:20:00 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Report
Attachments: 20190413_0700_Benzene_Report.pdf; 20190413_0800_Benzene_Report.pdf

All,

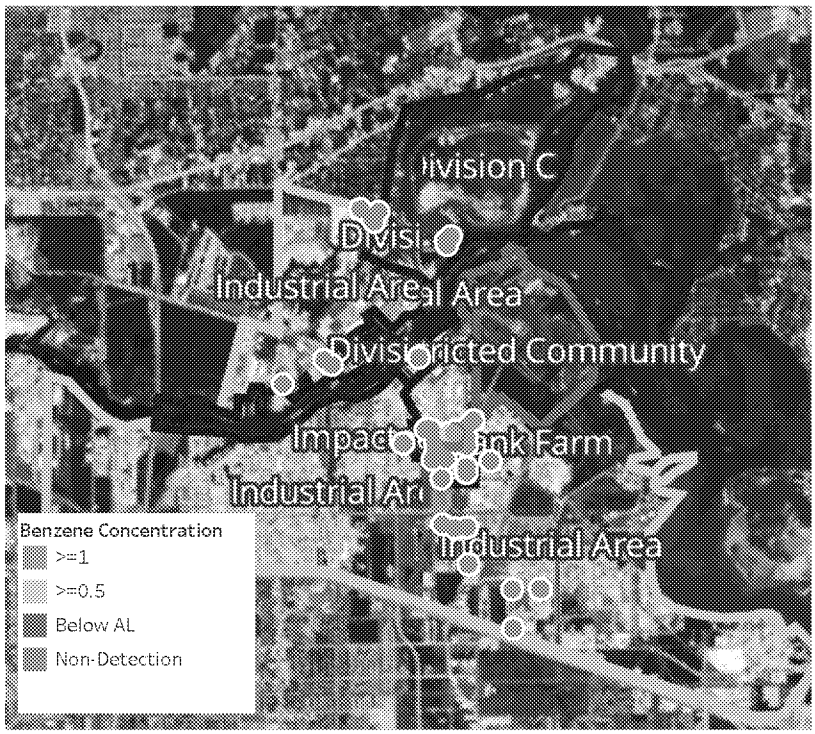
Please see the attached documents of benzene readings between 0600-0800. Let me know if you have any questions. Thanks!

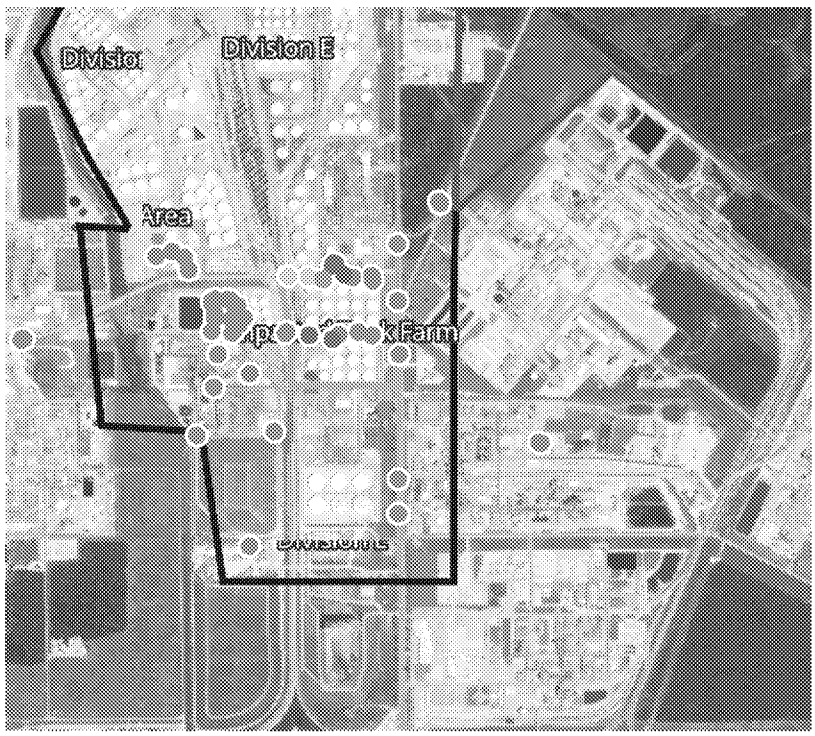
Sincerely,

Jacob Bird, BS
Director, Logistics & Operations Support
CTEH, LLC
Office: 501-801-8628 | Mobile: 501-366-3074
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jbird@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 6:00:00 AM to 4/13/2019 7:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 06:16:16	0.1300 ppm
	4/13/2019 06:15:01	0.2200 ppm
	4/13/2019 06:18:33	1.0100 ppm
	4/13/2019 06:22:33	0.0100 ppm
	4/13/2019 06:25:51	0.0100 ppm
	4/13/2019 06:31:57	0.4000 ppm
	4/13/2019 06:57:15	0.2500 ppm
Impacted Tank Farm	4/13/2019 06:34:03	0.0200 ppm
	4/13/2019 06:50:37	0.0500 ppm

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Reading Date
4/13/2019 6:00:00 AM to 4/13/2019 7:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

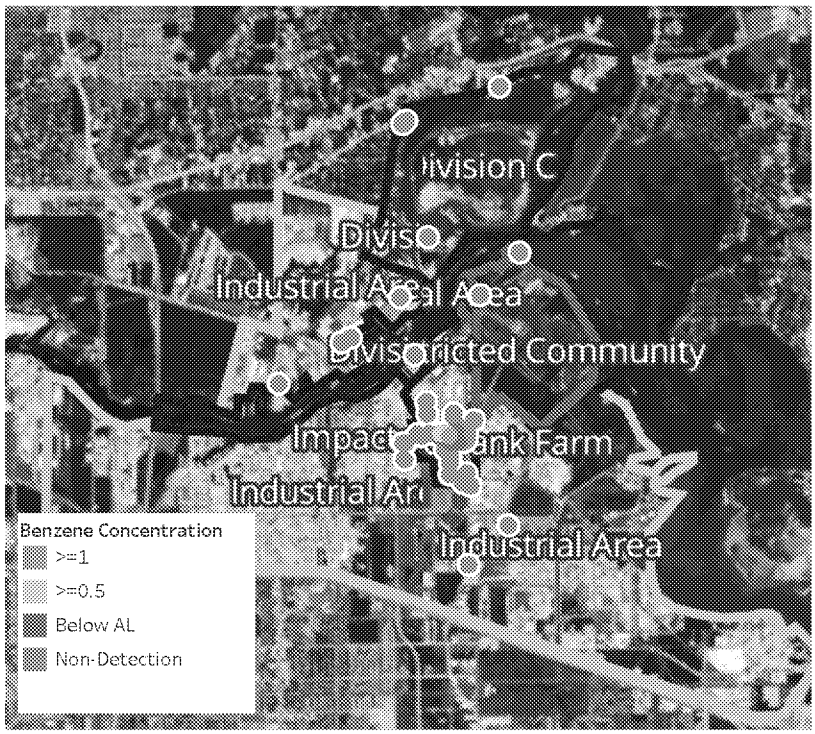
Recent Benzene Detections Greater than 1.00 ppm

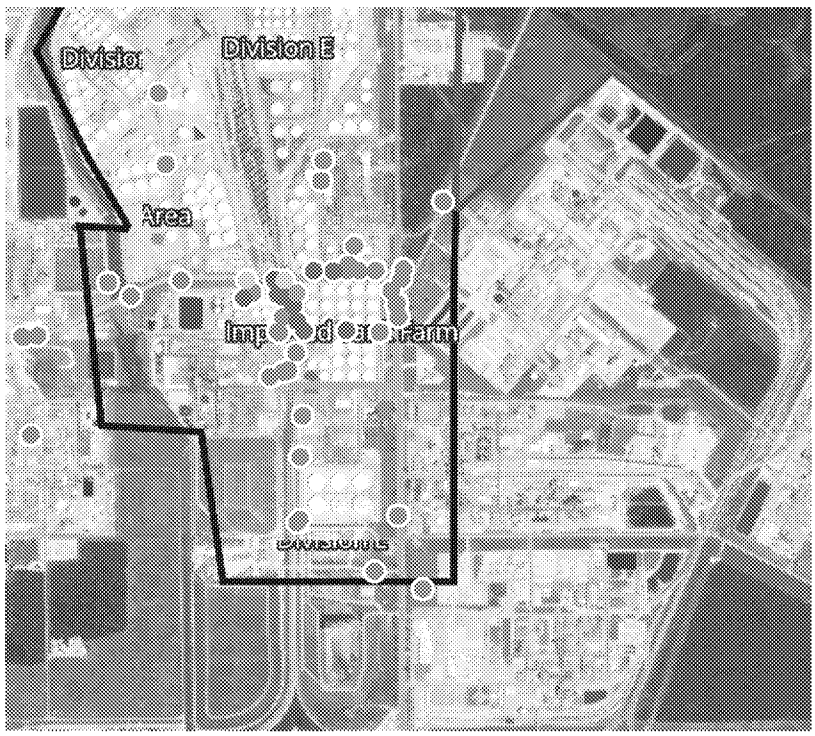
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 06:18:33	Division E	29.7531440,-95.0921620	https://www.google.com/maps/search/?api=1&query=29.7531440,-95.0921620	1.010 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 7:00:00 AM to 4/13/2019 8:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 07:05:02	0.180 ppm
	4/13/2019 07:09:16	0.120 ppm
	4/13/2019 07:21:15	0.975 ppm
	4/13/2019 07:29:21	0.600 ppm
	4/13/2019 07:17:20	0.125 ppm
	4/13/2019 07:48:29	0.100 ppm
	4/13/2019 07:53:14	0.200 ppm
	4/13/2019 07:59:52	0.300 ppm
Impacted Tank Farm	4/13/2019 07:35:37	0.250 ppm
	4/13/2019 07:43:22	0.275 ppm
	4/13/2019 07:45:56	0.450 ppm
	4/13/2019 07:49:57	1.450 ppm
	4/13/2019 07:54:56	0.150 ppm

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Reading Date
4/13/2019 7:00:00 AM to 4/13/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 07:49:57	Impacted Tank Farm	29.7527760,-95.0929670	https://www.google.com/maps/search/?api=1&query=29.7527760,-95.0929670	1.400 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/13/2019 9:05:37 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Reports
Attachments: 20190413_1500_Benzene_Report.pdf; 20190413_1600_Benzene_Report.pdf

All,

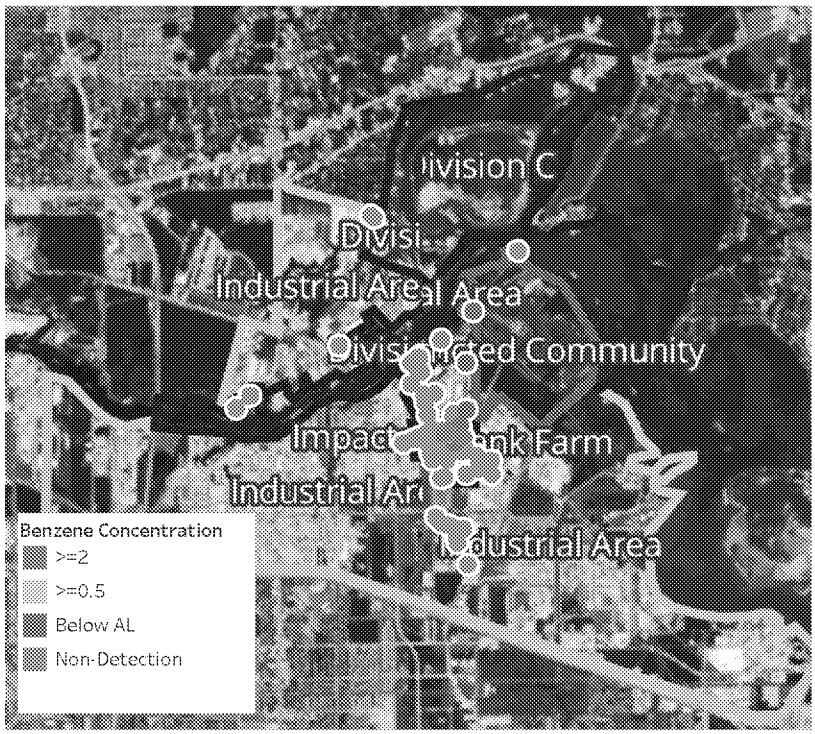
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

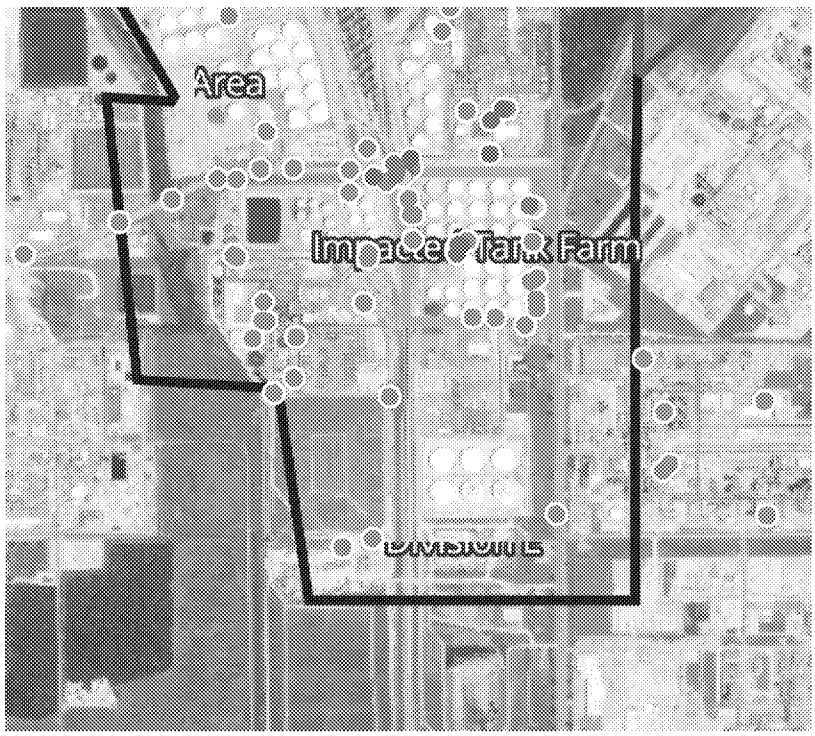
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 2:00:00 PM to 4/13/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 14:04:21	0.100 ppm
	4/13/2019 14:05:14	8.320 ppm
	4/13/2019 14:07:43	0.130 ppm
	4/13/2019 14:11:37	7.080 ppm
	4/13/2019 14:15:45	0.250 ppm
	4/13/2019 14:22:44	3.400 ppm
	4/13/2019 14:29:30	0.700 ppm
	4/13/2019 14:47:09	0.100 ppm
	4/13/2019 14:45:17	0.900 ppm
	4/13/2019 14:46:56	0.360 ppm
	4/13/2019 14:42:24	0.070 ppm
Impacted Tank Farm	4/13/2019 14:10:24	0.050 ppm
	4/13/2019 14:13:42	0.770 ppm
	4/13/2019 14:26:16	0.060 ppm
	4/13/2019 14:32:57	2.050 ppm
	4/13/2019 14:44:24	0.080 ppm
Restricted Community	4/13/2019 14:02:44	0.160 ppm
	4/13/2019 14:14:25	0.090 ppm
	4/13/2019 14:25:12	0.030 ppm

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Reading Date
4/13/2019 2:00:00 PM to 4/13/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

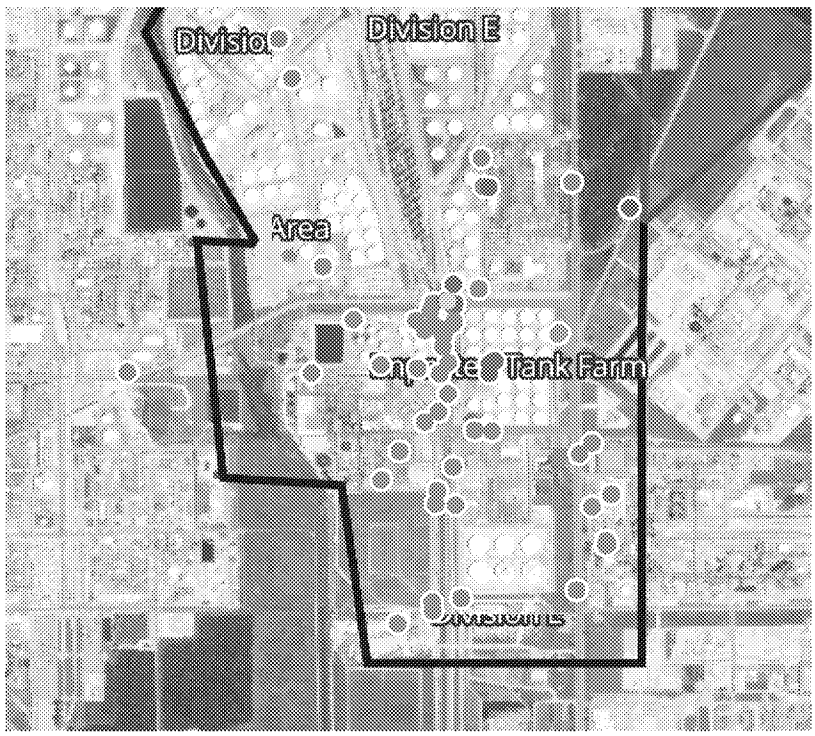
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 14:32:57	Impacted Tank Farm	29.7525340,-95.0904560	https://www.google.com/maps/search/?api=1&query=29.7525340,-95.0904560	2.050 ppm
4/13/2019 14:22:44	Division E	29.7331040,-95.0933450	https://www.google.com/maps/search/?api=1&query=29.7331040,-95.0933450	5.400 ppm
4/13/2019 14:11:37	Division E	29.7352140,-95.0933770	https://www.google.com/maps/search/?api=1&query=29.7352140,-95.0933770	7.080 ppm
4/13/2019 14:05:14	Division E	29.7351810,-95.0933180	https://www.google.com/maps/search/?api=1&query=29.7351810,-95.0933180	8.320 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 3:00:00 PM to 4/13/2019 4:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 15:11:05	0.125 ppm
	4/13/2019 15:14:35	0.440 ppm
	4/13/2019 15:28:16	0.340 ppm
	4/13/2019 15:34:09	0.030 ppm
	4/13/2019 15:35:39	0.250 ppm
	4/13/2019 15:39:23	0.370 ppm
Impacted Tank Farm	4/13/2019 15:01:12	0.040 ppm
	4/13/2019 15:14:36	0.090 ppm
	4/13/2019 15:31:52	0.100 ppm
	4/13/2019 15:33:26	1.250 ppm
	4/13/2019 15:37:12	1.330 ppm
Wildlife Warehouse	4/13/2019 15:52:41	0.090 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 3:00:00 PM to 4/13/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 15:49:00	Impacted Tank Farm	29.7518620,-95.0904930	https://www.google.com/maps/search/?api=1&query=29.7518620,-95.0904930	1.9400 ppm
4/13/2019 15:37:12	Impacted Tank Farm	29.7324800,-95.0903420	https://www.google.com/maps/search/?api=1&query=29.7324800,-95.0903420	1.2300 ppm
4/13/2019 15:33:26	Impacted Tank Farm	29.7325040,-95.0903180	https://www.google.com/maps/search/?api=1&query=29.7325040,-95.0903180	1.2500 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/13/2019 7:12:11 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]; Luke Blansett [lblansett@cteh.com]
Subject: 1400 benzene report
Attachments: 20190413_1300_Benzene_Report.pdf; 20190413_1400_Benzene_Report.pdf

All,

Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

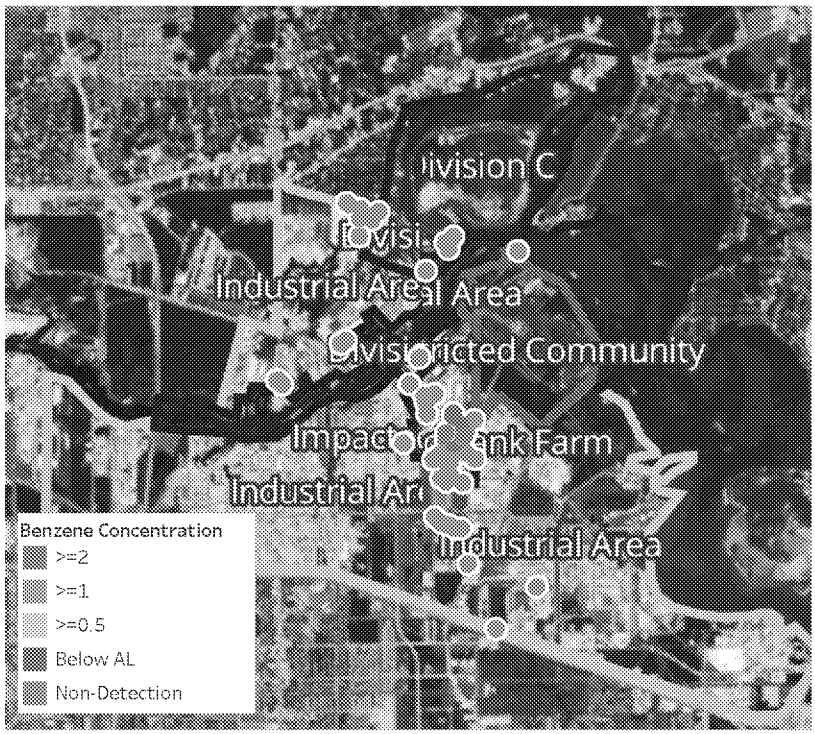
Sincerely,

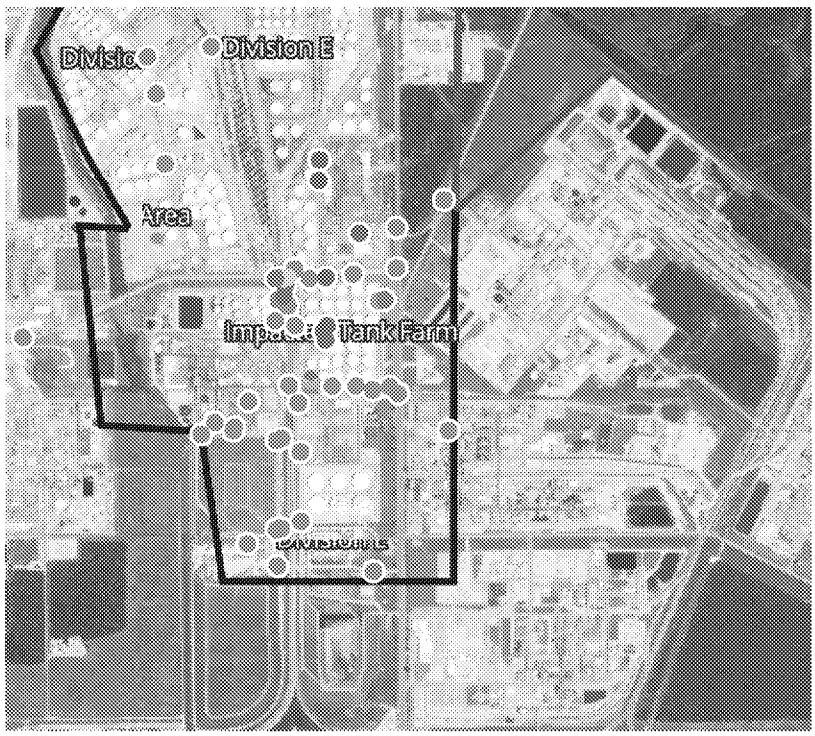
Luke Blansett
Sr Project Coordinator
CTEH
501-503-9734

Sent from Mail for Windows 10

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 12:00:00 PM to 4/13/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 12:00:04	0.110 ppm
	4/13/2019 12:00:11	0.100 ppm
	4/13/2019 12:08:03	0.020 ppm
	4/13/2019 12:20:05	3.960 ppm
	4/13/2019 12:24:44	0.130 ppm
	4/13/2019 12:09:07	0.325 ppm
	4/13/2019 12:38:39	0.610 ppm
	4/13/2019 12:45:39	0.900 ppm
	4/13/2019 12:57:09	0.050 ppm
Impacted Tank Farm	4/13/2019 12:03:36	0.090 ppm
	4/13/2019 12:07:38	1.380 ppm
	4/13/2019 12:20:57	6.170 ppm
	4/13/2019 12:28:31	0.080 ppm
	4/13/2019 12:51:30	0.060 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 12:00:00 PM to 4/13/2019 1:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

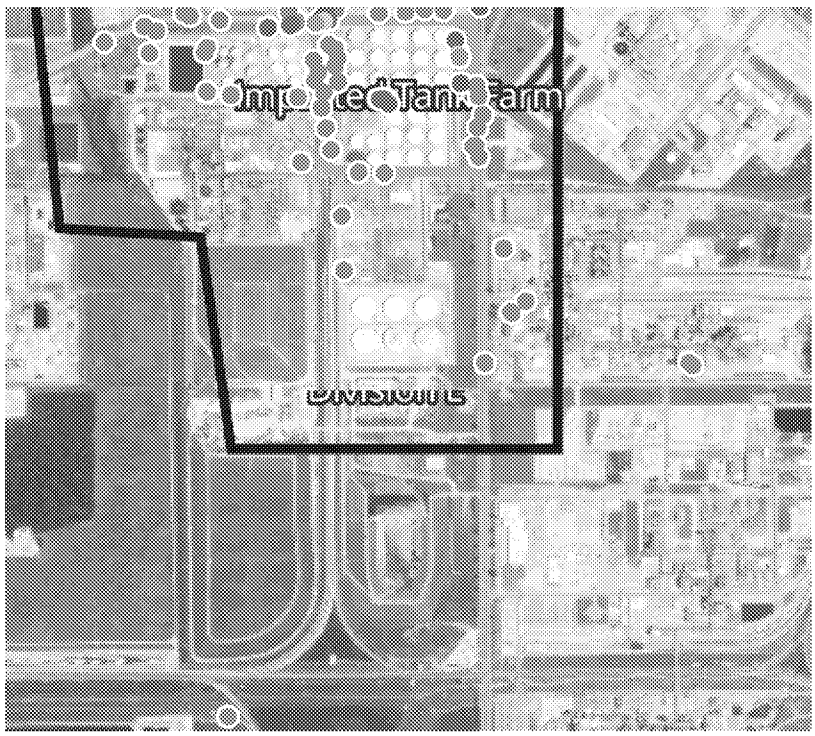
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 12:20:57	Impacted Tank Farm	29.7526040,-95.0902690	https://www.google.com/maps/search/?api=1&query=29.7526040,-95.0902690	6.170 ppm
4/13/2019 12:20:05	Division E	29.7331660,-95.0936150	https://www.google.com/maps/search/?api=1&query=29.7331660,-95.0936150	5.960 ppm
4/13/2019 12:07:38	Impacted Tank Farm	29.7325820,-95.0904630	https://www.google.com/maps/search/?api=1&query=29.7325820,-95.0904630	1.380 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 1:00:00 PM to 4/13/2019 2:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 13:02:26	0.1700 ppm
	4/13/2019 13:06:49	0.4400 ppm
	4/13/2019 13:11:01	0.2200 ppm
	4/13/2019 13:08:47	0.6500 ppm
	4/13/2019 13:15:10	0.3300 ppm
	4/13/2019 13:15:44	0.3900 ppm
	4/13/2019 13:19:37	0.0300 ppm
Impacted Tank Farm	4/13/2019 13:05:39	0.1400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 1:00:00 PM to 4/13/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 13:45:35	Impacted Tank Farm	29.7524870,-95.0903230	https://www.google.com/maps/search/?api=1&query=29.7524870,-95.0903230	1.7800 ppm
4/13/2019 13:41:37	Division E	29.7345060,-95.0901120	https://www.google.com/maps/search/?api=1&query=29.7345060,-95.0901120	1.3100 ppm
4/13/2019 13:23:59	Division E	29.7351320,-95.0934280	https://www.google.com/maps/search/?api=1&query=29.7351320,-95.0934280	1.3100 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/13/2019 11:10:49 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190413_0500_benzene_report.pdf; 20190413_0600_benzene_report.pdf

All,

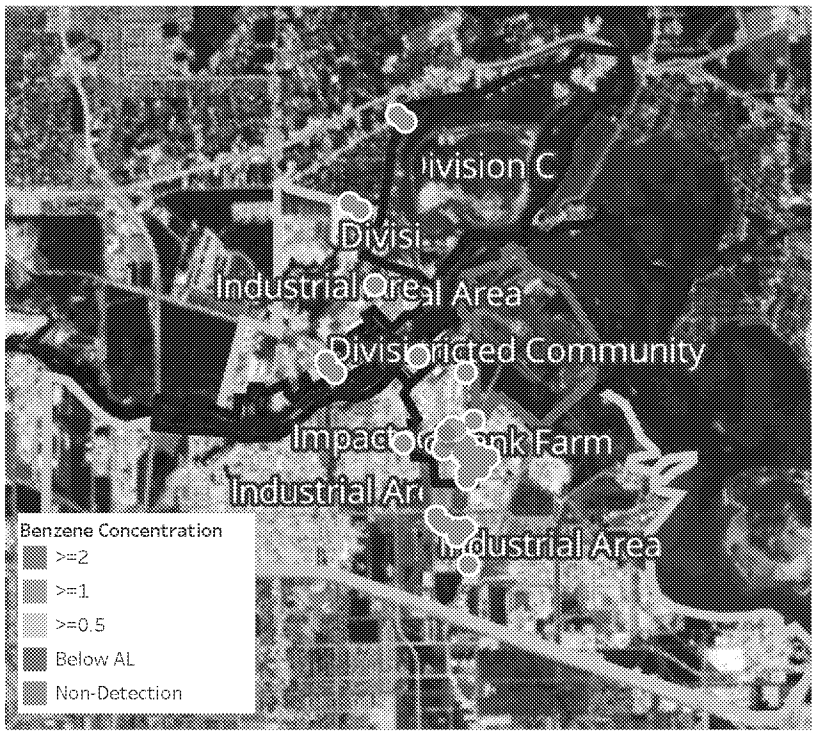
Attached are the benzene reports from 0400 – 0600.

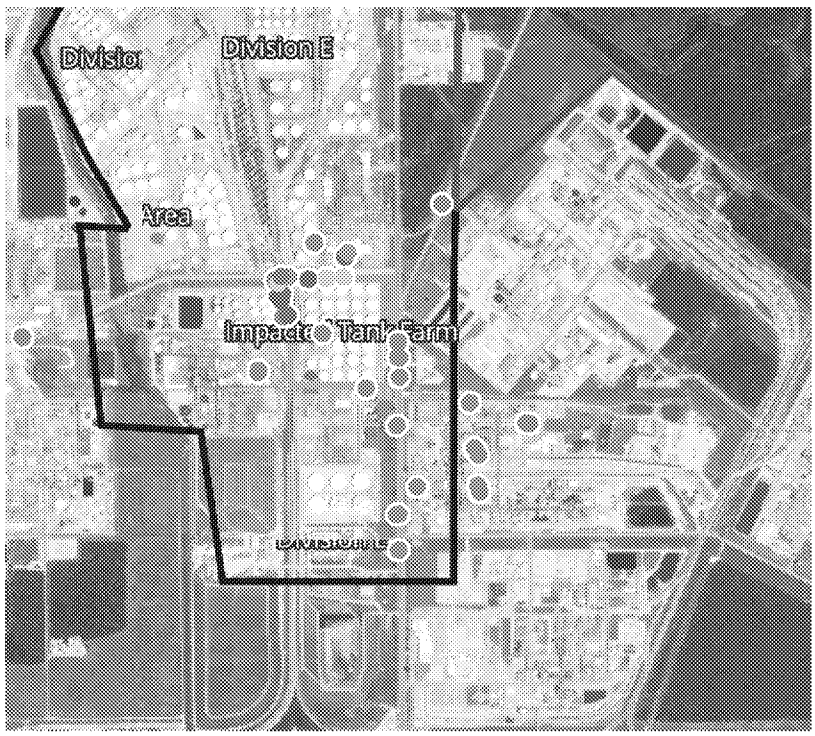
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 4:00:00 AM to 4/13/2019 5:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 04:01:42	0.080 ppm
	4/13/2019 04:02:21	1.080 ppm
	4/13/2019 04:03:28	0.360 ppm
	4/13/2019 04:08:05	0.120 ppm
	4/13/2019 04:04:30	0.030 ppm
	4/13/2019 04:08:38	0.550 ppm
	4/13/2019 04:11:52	0.430 ppm
	4/13/2019 04:20:55	2.930 ppm
	4/13/2019 04:16:39	1.460 ppm
	4/13/2019 04:27:59	0.230 ppm
	4/13/2019 04:37:19	0.530 ppm
	4/13/2019 04:43:41	0.160 ppm
	4/13/2019 04:46:55	0.200 ppm
	4/13/2019 04:52:41	0.120 ppm
	4/13/2019 04:53:49	0.100 ppm
	4/13/2019 04:54:41	0.100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 4:00:00 AM to 4/13/2019 5:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

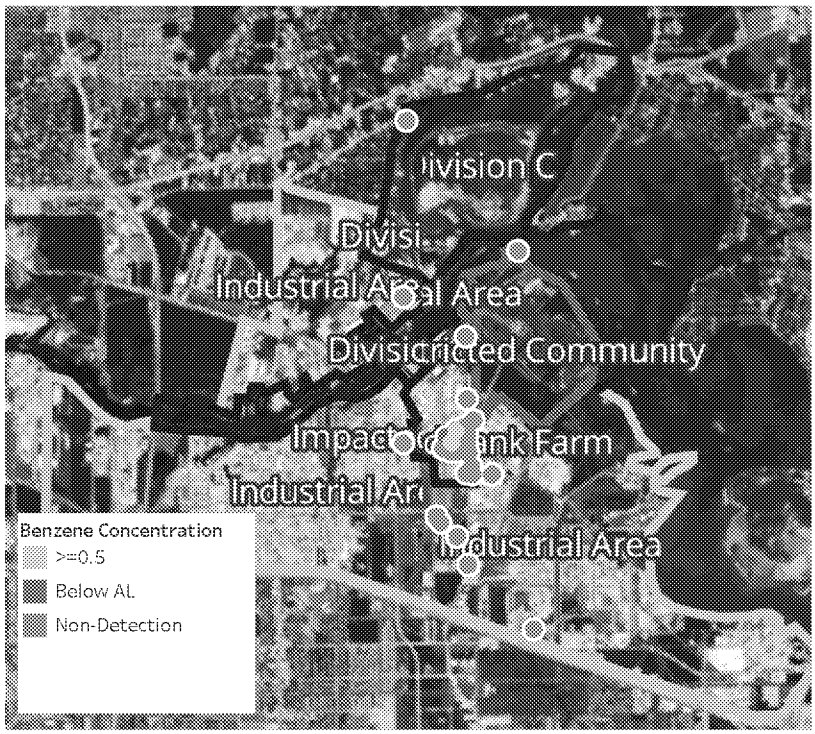
PRELIMINARY

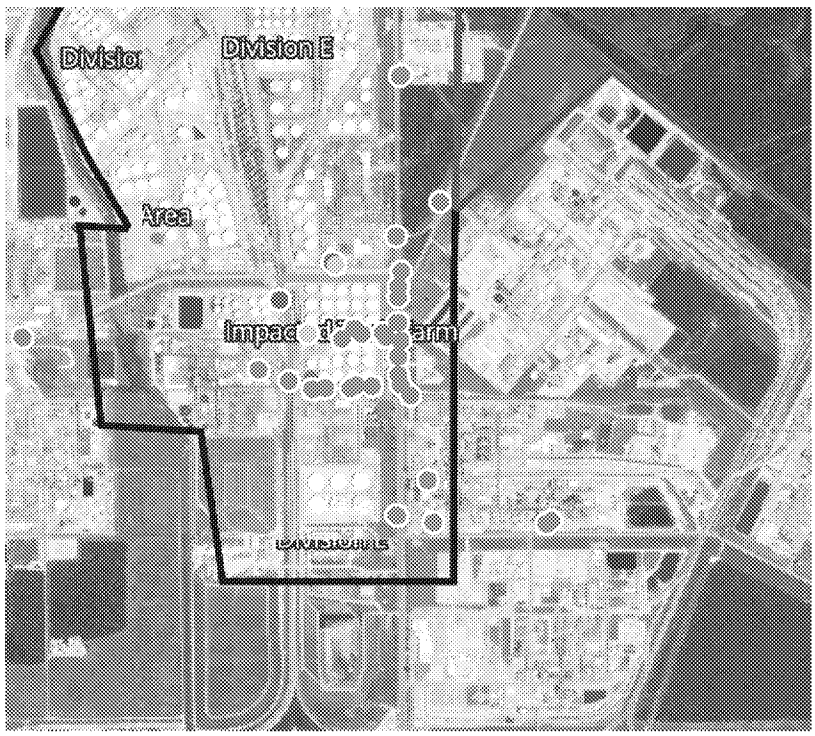
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 04:20:55	Division E	29.7532240,-95.0934430	https://www.google.com/maps/search/?api=1&query=29.7532240,-95.0934430	2.930 ppm
4/13/2019 04:16:39	Division E	29.7332090,-95.0932230	https://www.google.com/maps/search/?api=1&query=29.7332090,-95.0932230	1.450 ppm
4/13/2019 04:02:21	Division E	29.7359440,-95.0914210	https://www.google.com/maps/search/?api=1&query=29.7359440,-95.0914210	1.080 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 5:00:00 AM to 4/13/2019 6:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 05:04:05	0.0400 ppm
	4/13/2019 05:26:50	0.3000 ppm
	4/13/2019 05:52:31	0.5200 ppm
Impacted Tank Farm	4/13/2019 05:16:16	0.7900 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Jacob Bird [jbird@cteh.com]
Sent: 4/13/2019 5:27:01 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Report
Attachments: 20190413_1200_Benzene_Report.pdf; 20190413_1100_Benzene_Report.pdf

All,

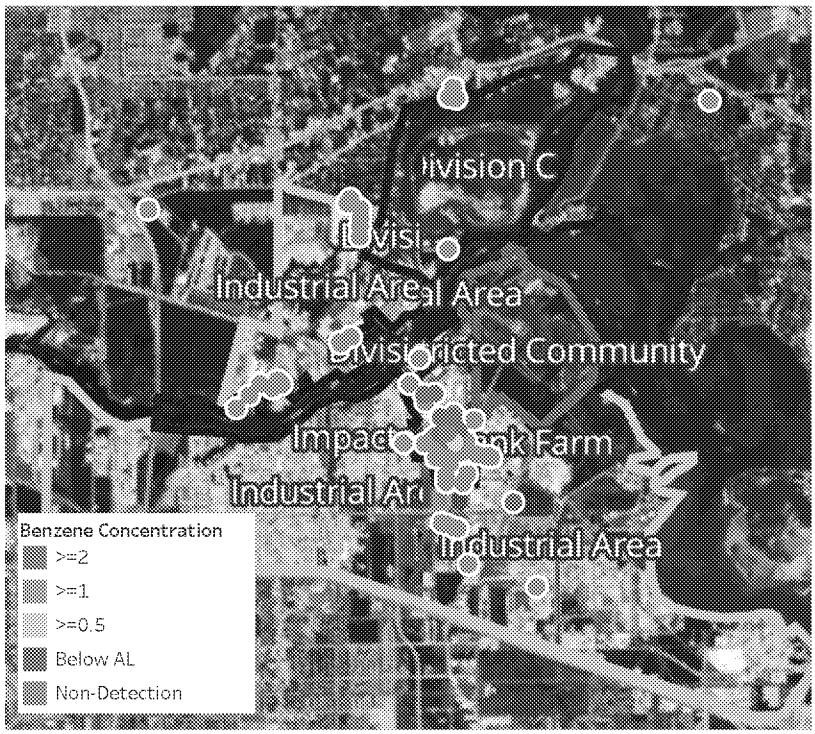
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

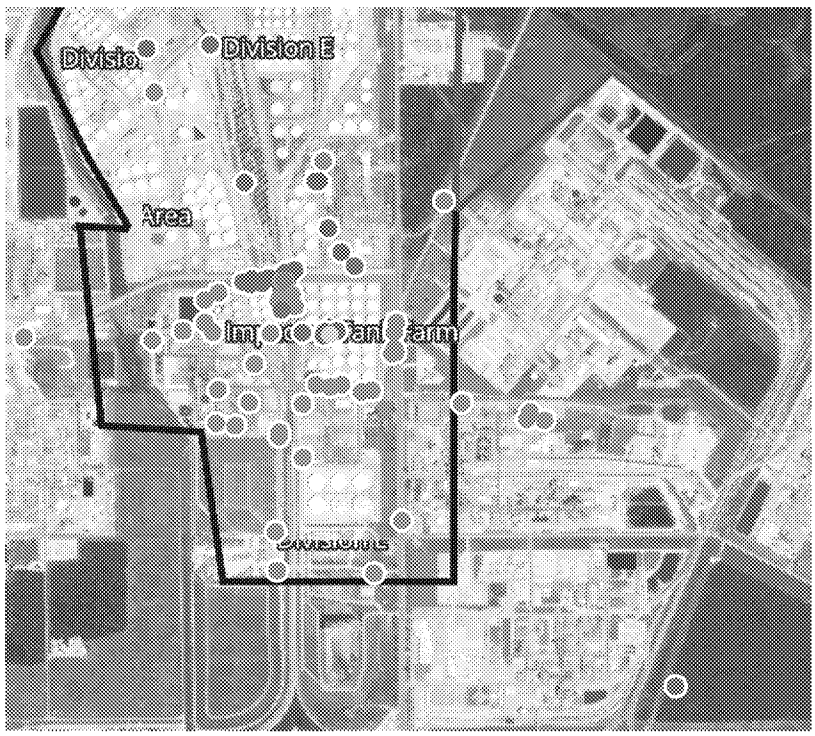
Sincerely,

Jacob Bird, BS
Director, Logistics & Operations Support
CTEH, LLC
Office: 501-801-8628 | Mobile: 501-366-3074
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jbird@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 10:00:00 AM to 4/13/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 10:06:19	0.240 ppm
	4/13/2019 10:11:09	0.500 ppm
	4/13/2019 10:13:20	0.300 ppm
	4/13/2019 10:15:11	0.020 ppm
	4/13/2019 10:17:26	0.100 ppm
	4/13/2019 10:19:45	0.270 ppm
	4/13/2019 10:20:43	0.320 ppm
	4/13/2019 10:23:06	0.020 ppm
	4/13/2019 10:23:12	4.990 ppm
	4/13/2019 10:14:40	0.120 ppm
	4/13/2019 10:06:07	0.110 ppm
	4/13/2019 10:23:50	0.120 ppm
	4/13/2019 10:31:41	0.100 ppm
	4/13/2019 10:03:54	0.100 ppm
	4/13/2019 10:26:25	0.210 ppm
	4/13/2019 10:08:45	0.130 ppm
	4/13/2019 10:34:06	0.460 ppm
	4/13/2019 10:21:57	0.130 ppm
	4/13/2019 10:17:07	0.410 ppm
	4/13/2019 10:37:02	0.030 ppm
	4/13/2019 10:44:24	0.160 ppm
	4/13/2019 10:41:13	0.210 ppm
	4/13/2019 10:37:08	1.220 ppm
	4/13/2019 10:38:40	0.200 ppm
	4/13/2019 10:40:19	1.290 ppm
	4/13/2019 10:46:21	0.020 ppm
	4/13/2019 10:48:41	0.060 ppm
	4/13/2019 10:53:59	0.150 ppm
	4/13/2019 10:56:52	0.070 ppm
Impacted Tank Farm	4/13/2019 10:18:31	0.060 ppm
	4/13/2019 10:36:41	0.180 ppm
	4/13/2019 10:43:36	0.200 ppm
	4/13/2019 10:55:30	0.070 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 10:00:00 AM to 4/13/2019 11:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

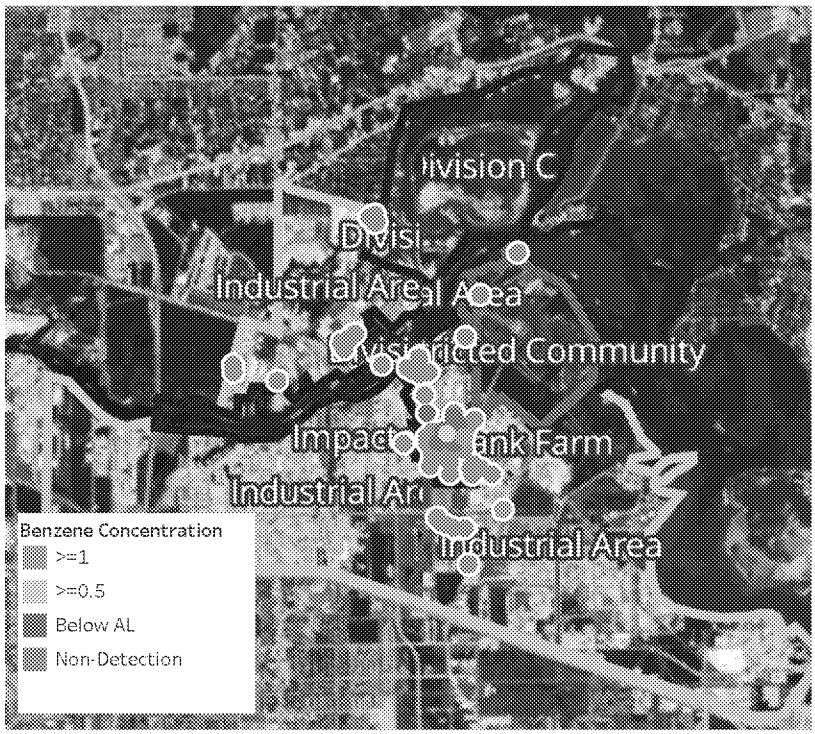
Recent Benzene Detections Greater than 1.00 ppm

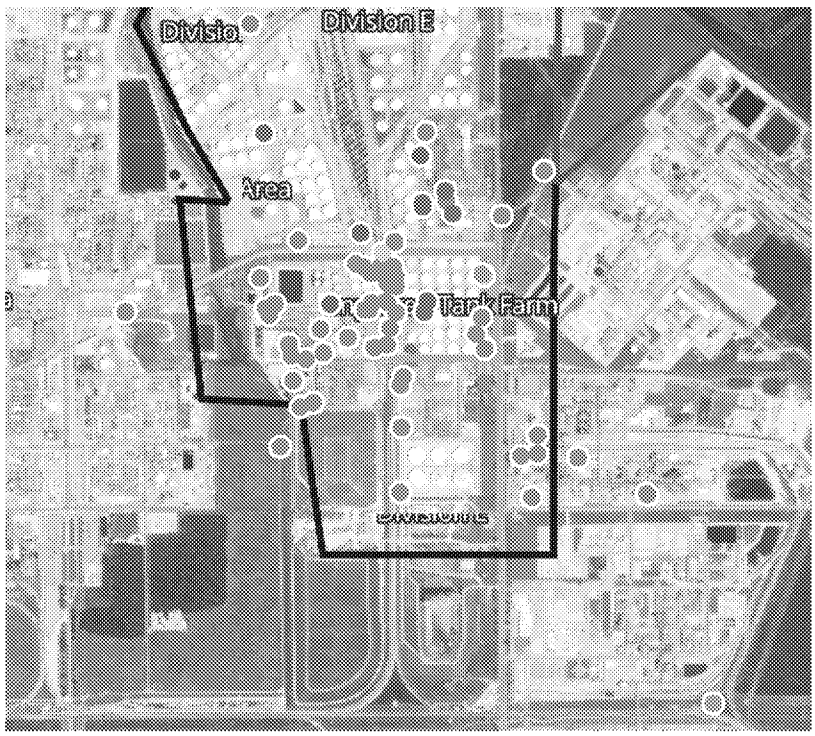
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 10:40:19	Division E	29.7530990,-95.0933070	https://www.google.com/maps/search/?api=1&query=29.7530990,-95.0933070	1.690 ppm
4/13/2019 10:37:08	Division E	29.7331010,-95.0934540	https://www.google.com/maps/search/?api=1&query=29.7331010,-95.0934540	1.420 ppm
4/13/2019 10:23:12	Division E	29.7350870,-95.0933670	https://www.google.com/maps/search/?api=1&query=29.7350870,-95.0933670	4.990 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 11:00:00 AM to 4/13/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 11:01:54	0.020 ppm
	4/13/2019 11:05:22	0.580 ppm
	4/13/2019 11:08:21	0.340 ppm
	4/13/2019 11:10:56	0.290 ppm
	4/13/2019 11:39:11	0.100 ppm
	4/13/2019 11:43:12	0.020 ppm
	4/13/2019 11:50:43	0.330 ppm
	4/13/2019 11:51:49	1.260 ppm
	4/13/2019 11:36:37	0.020 ppm
	4/13/2019 11:53:39	0.280 ppm
Impacted Tank Farm	4/13/2019 11:20:26	0.070 ppm
	4/13/2019 11:20:55	0.610 ppm
	4/13/2019 11:42:06	0.120 ppm
	4/13/2019 11:50:42	1.320 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 11:00:00 AM to 4/13/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 11:51:49	Division E	29.7212050, -95.0833180	https://www.google.com/maps/search/?api=1&query=29.7212050,-95.0833180	3.08000 ppm
4/13/2019 11:50:42	Impacted Tank Farm	29.7325650, -95.0903670	https://www.google.com/maps/search/?api=1&query=29.7325650,-95.0903670	3.32000 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jacob Bird [jbird@cteh.com]
Sent: 4/12/2019 10:00:05 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Report
Attachments: 20190412_1600_Benzene_Report.pdf; 20190412_1500_Benzene_Report.pdf

All,

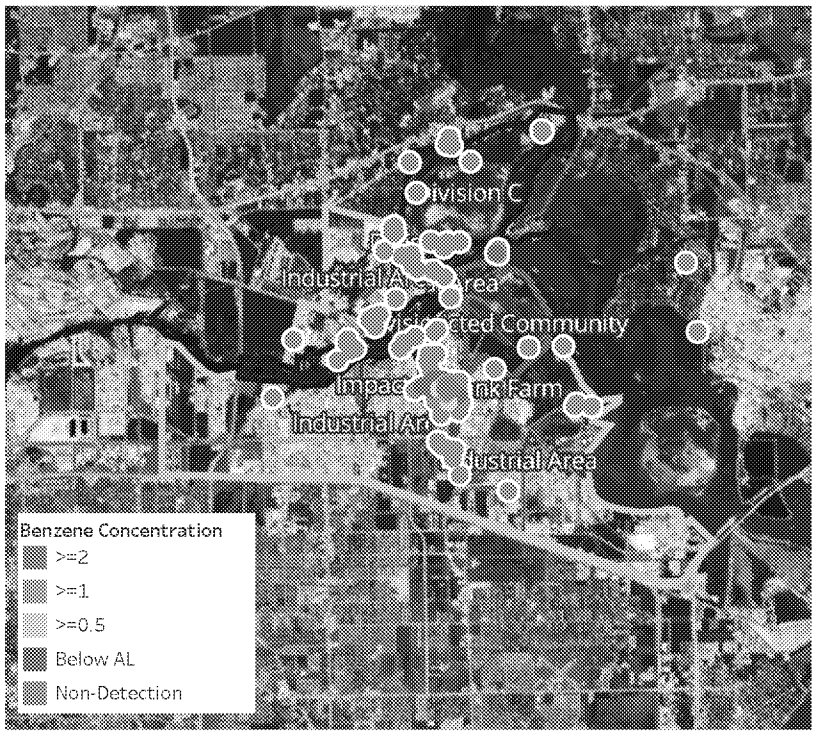
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

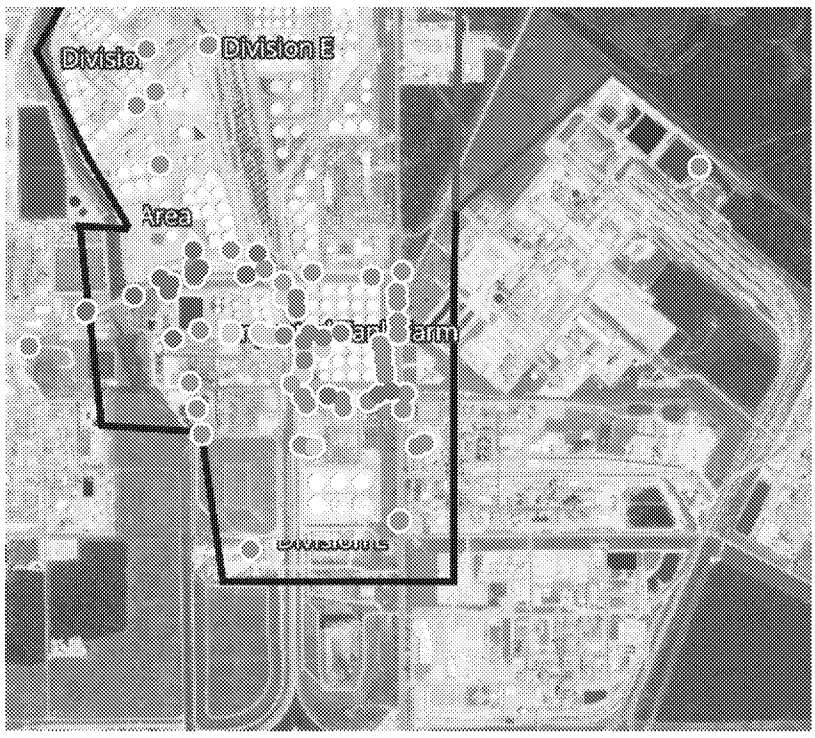
Sincerely,

Jacob Bird, BS
Director, Logistics & Operations Support
CTEH, LLC
Office: 501-801-8628 | Mobile: 501-366-3074
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jbird@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 2:00:00 PM to 4/12/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 14:09:01	0.02 ppm
	4/12/2019 14:15:47	0.52 ppm
	4/12/2019 14:17:04	0.55 ppm
	4/12/2019 14:18:44	0.59 ppm
	4/12/2019 14:17:12	0.02 ppm
	4/12/2019 14:24:08	0.08 ppm
	4/12/2019 14:25:22	0.51 ppm
	4/12/2019 14:26:25	0.11 ppm
	4/12/2019 14:25:41	0.06 ppm
	4/12/2019 14:29:10	0.02 ppm
	4/12/2019 14:12:14	0.07 ppm
	4/12/2019 14:05:30	0.15 ppm
	4/12/2019 14:08:35	0.06 ppm
	4/12/2019 14:15:25	0.28 ppm
	4/12/2019 14:10:22	0.21 ppm
	4/12/2019 14:06:10	0.06 ppm
	4/12/2019 14:26:32	0.04 ppm
	4/12/2019 14:19:58	0.53 ppm
	4/12/2019 14:20:35	0.26 ppm
	4/12/2019 14:22:43	0.36 ppm
	4/12/2019 14:30:15	0.02 ppm
	4/12/2019 14:30:22	0.75 ppm
	4/12/2019 14:35:46	0.58 ppm
	4/12/2019 14:42:12	1.20 ppm
	4/12/2019 14:46:48	0.64 ppm
	4/12/2019 14:52:48	0.12 ppm
	4/12/2019 14:49:12	1.23 ppm
	4/12/2019 14:56:28	2.06 ppm
	4/12/2019 14:47:26	0.97 ppm
Impacted Tank Farm	4/12/2019 14:08:45	0.73 ppm
	4/12/2019 14:18:51	6.22 ppm
	4/12/2019 14:20:57	2.75 ppm
	4/12/2019 14:26:07	2.76 ppm
	4/12/2019 14:29:20	3.40 ppm
	4/12/2019 14:30:08	16.30 ppm
	4/12/2019 14:50:07	0.52 ppm
	4/12/2019 14:54:12	2.57 ppm
	4/12/2019 14:58:22	2.78 ppm
Restricted Community	4/12/2019 14:43:11	0.08 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 2:00:00 PM to 4/12/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

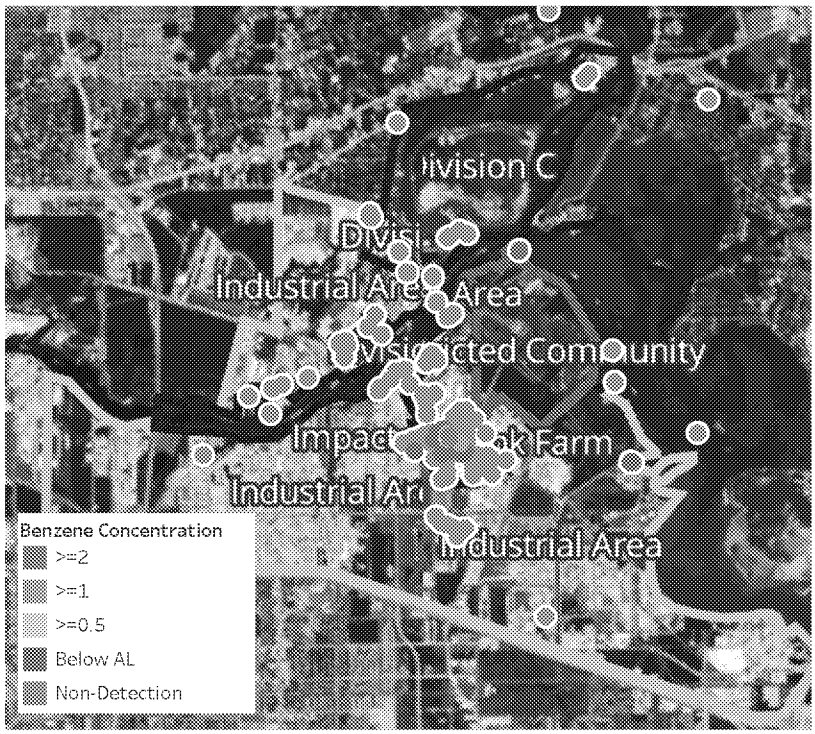
Recent Benzene Detections Greater than 1.00 ppm

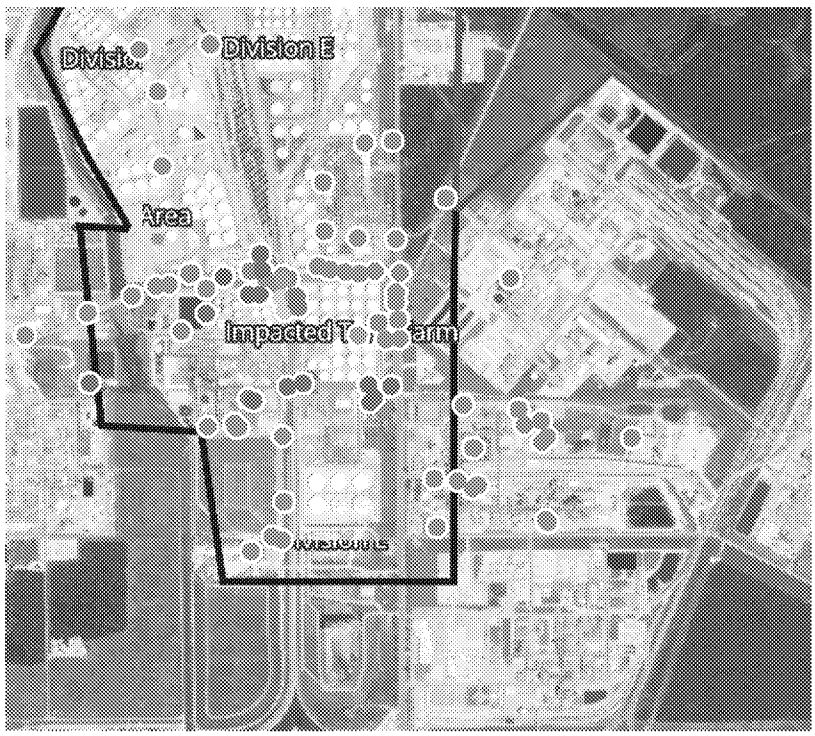
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 14:58:22	Impacted Tank Farm	29.7517180,-95.0916260	https://www.google.com/maps/search/?api=1&query=29.7517180,-95.0916260	2.79 ppm
4/12/2019 14:56:28	Division E	29.7316500,-95.0933620	https://www.google.com/maps/search/?api=1&query=29.7316500,-95.0933620	2.06 ppm
4/12/2019 14:54:12	Impacted Tank Farm	29.7316010,-95.0921560	https://www.google.com/maps/search/?api=1&query=29.7316010,-95.0921560	2.57 ppm
4/12/2019 14:49:12	Division E	29.7306630,-95.0933810	https://www.google.com/maps/search/?api=1&query=29.7306630,-95.0933810	1.23 ppm
4/12/2019 14:42:12	Division E	29.7303700,-95.0931270	https://www.google.com/maps/search/?api=1&query=29.7303700,-95.0931270	1.20 ppm
4/12/2019 14:30:08	Impacted Tank Farm	29.7517170,-95.0925750	https://www.google.com/maps/search/?api=1&query=29.7517170,-95.0925750	15.30 ppm
4/12/2019 14:29:20	Impacted Tank Farm	29.7525510,-95.0929730	https://www.google.com/maps/search/?api=1&query=29.7525510,-95.0929730	3.40 ppm
4/12/2019 14:26:07	Impacted Tank Farm	29.7315050,-95.0927540	https://www.google.com/maps/search/?api=1&query=29.7315050,-95.0927540	2.76 ppm
4/12/2019 14:20:57	Impacted Tank Farm	29.7326560,-95.0929910	https://www.google.com/maps/search/?api=1&query=29.7326560,-95.0929910	2.75 ppm
4/12/2019 14:18:51	Impacted Tank Farm	29.7309930,-95.0927360	https://www.google.com/maps/search/?api=1&query=29.7309930,-95.0927360	6.22 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 3:00:00 PM to 4/12/2019 4:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division D	4/12/2019 15:32:35	0.160 ppm
	4/12/2019 15:41:07	0.090 ppm
Division E	4/12/2019 15:00:05	0.050 ppm
	4/12/2019 15:01:17	0.740 ppm
	4/12/2019 15:18:51	0.090 ppm
	4/12/2019 15:11:51	0.820 ppm
	4/12/2019 15:05:06	0.120 ppm
	4/12/2019 15:16:33	0.020 ppm
	4/12/2019 15:37:35	0.250 ppm
	4/12/2019 15:43:37	0.350 ppm
	4/12/2019 15:42:34	0.020 ppm
	4/12/2019 15:46:13	0.200 ppm
	4/12/2019 15:47:05	0.030 ppm
	4/12/2019 15:52:59	0.310 ppm
	4/12/2019 15:50:11	0.450 ppm
	4/12/2019 15:51:50	1.260 ppm
	4/12/2019 15:57:00	0.140 ppm
	4/12/2019 15:55:38	0.130 ppm
Impacted Tank Farm	4/12/2019 15:00:25	3.475 ppm
	4/12/2019 15:02:11	1.070 ppm
	4/12/2019 15:08:45	2.325 ppm
	4/12/2019 15:42:49	4.325 ppm
	4/12/2019 15:52:01	1.925 ppm
Industrial Area	4/12/2019 15:00:11	0.360 ppm
Restricted Community	4/12/2019 15:21:32	0.100 ppm
	4/12/2019 15:29:12	0.200 ppm
	4/12/2019 15:38:27	0.150 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 3:00:00 PM to 4/12/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 15:52:01	Impacted Tank Farm	29.7527010,-95.0930740	https://www.google.com/maps/search/?api=1&query=29.7527010,-95.0930740	1.925 ppm
4/12/2019 15:51:50	Division E	29.7331370,-95.0933820	https://www.google.com/maps/search/?api=1&query=29.7331370,-95.0933820	1.260 ppm
4/12/2019 15:42:49	Impacted Tank Farm	29.7322960,-95.0929250	https://www.google.com/maps/search/?api=1&query=29.7322960,-95.0929250	4.325 ppm
4/12/2019 15:08:45	Impacted Tank Farm	29.7326950,-95.0929630	https://www.google.com/maps/search/?api=1&query=29.7326950,-95.0929630	2.325 ppm
4/12/2019 15:02:11	Impacted Tank Farm	29.7316570,-95.0910690	https://www.google.com/maps/search/?api=1&query=29.7316570,-95.0910690	1.070 ppm
4/12/2019 15:00:25	Impacted Tank Farm	29.7524750,-95.0929840	https://www.google.com/maps/search/?api=1&query=29.7524750,-95.0929840	3.475 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/13/2019 9:20:44 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190413_0300_benzene_report.pdf; 20190413_0400_benzene_report.pdf

All,

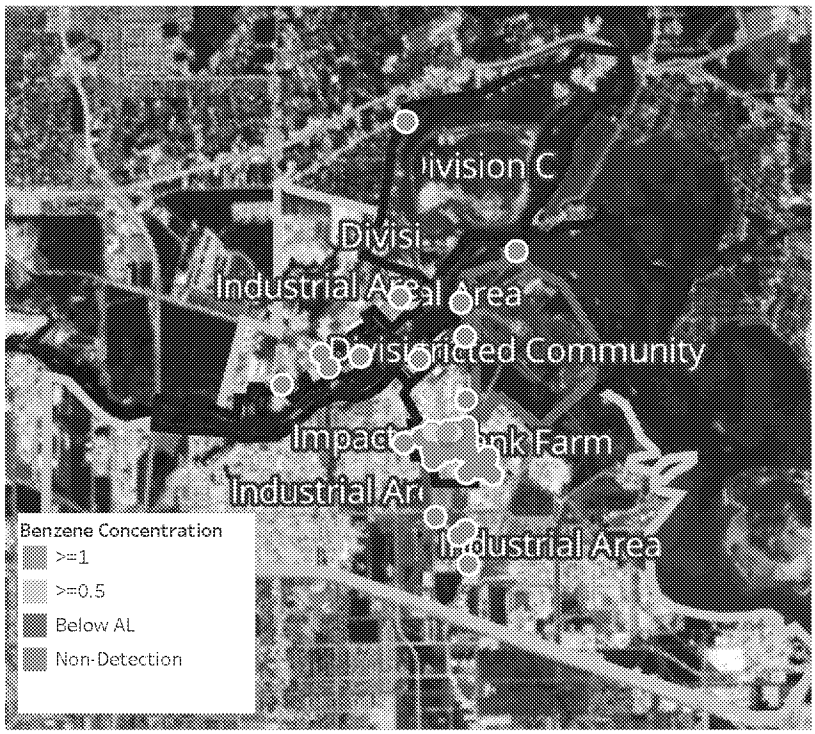
Attached are the benzene reports from 0200 – 0400.

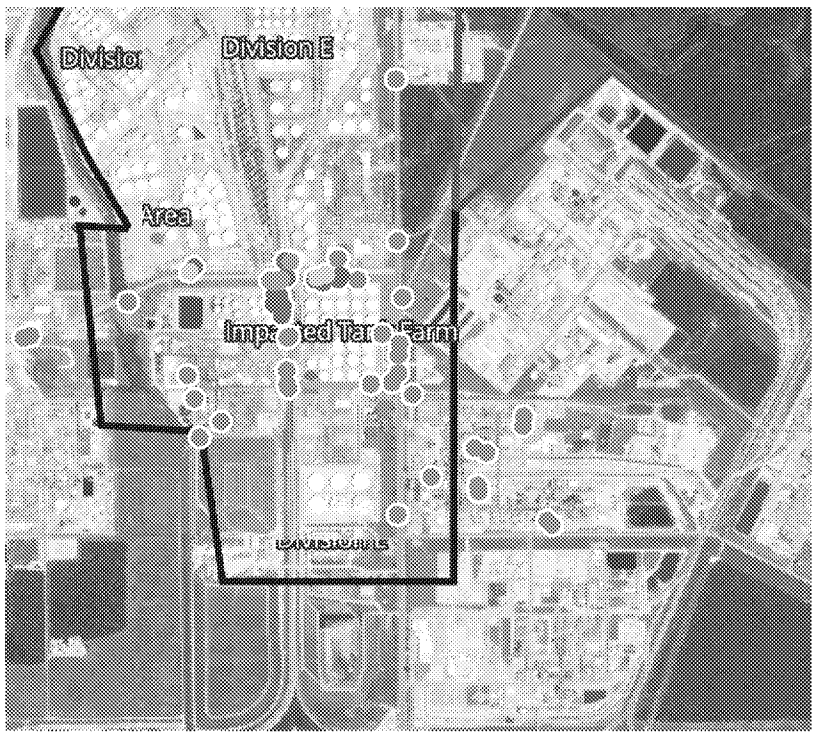
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 2:00:00 AM to 4/13/2019 3:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 02:09:02	0.050 ppm
	4/13/2019 02:11:52	0.640 ppm
	4/13/2019 02:07:47	0.010 ppm
	4/13/2019 02:11:37	0.340 ppm
	4/13/2019 02:17:03	0.480 ppm
	4/13/2019 02:20:46	0.480 ppm
	4/13/2019 02:20:43	0.480 ppm
	4/13/2019 02:17:15	0.620 ppm
	4/13/2019 02:25:03	1.170 ppm
	4/13/2019 02:24:42	0.740 ppm
	4/13/2019 02:27:30	1.200 ppm
	4/13/2019 02:31:59	0.400 ppm
	4/13/2019 02:29:43	0.420 ppm
	4/13/2019 02:46:51	0.090 ppm
	4/13/2019 02:51:30	0.320 ppm
	4/13/2019 02:56:15	1.890 ppm
	4/13/2019 02:57:50	1.870 ppm
	4/13/2019 02:52:56	0.160 ppm
	4/13/2019 02:58:44	1.830 ppm
	4/13/2019 02:59:35	1.025 ppm
	4/13/2019 02:48:40	0.260 ppm
	4/13/2019 02:55:30	0.500 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 2:00:00 AM to 4/13/2019 3:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

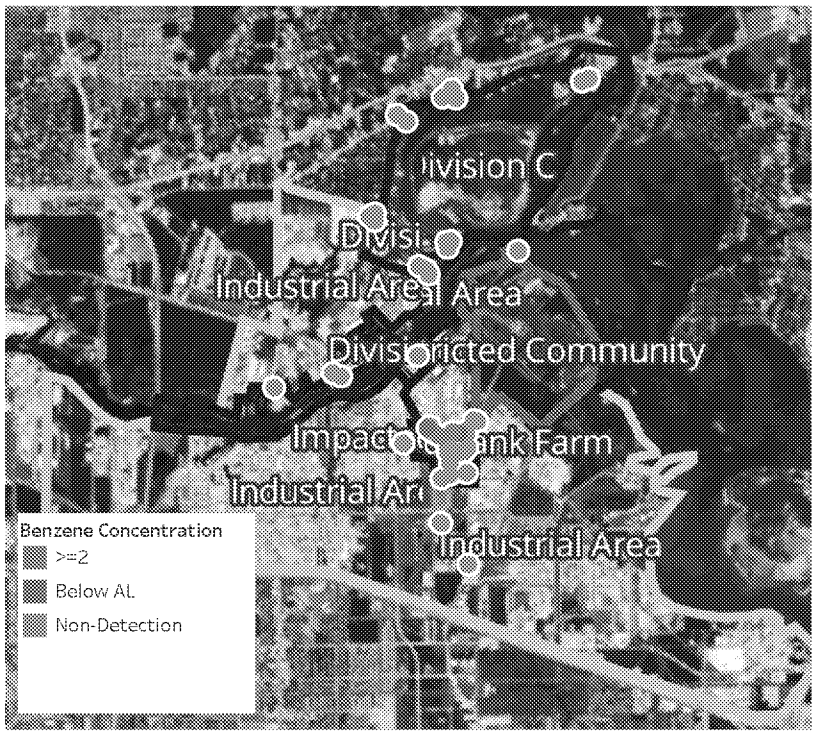
PRELIMINARY

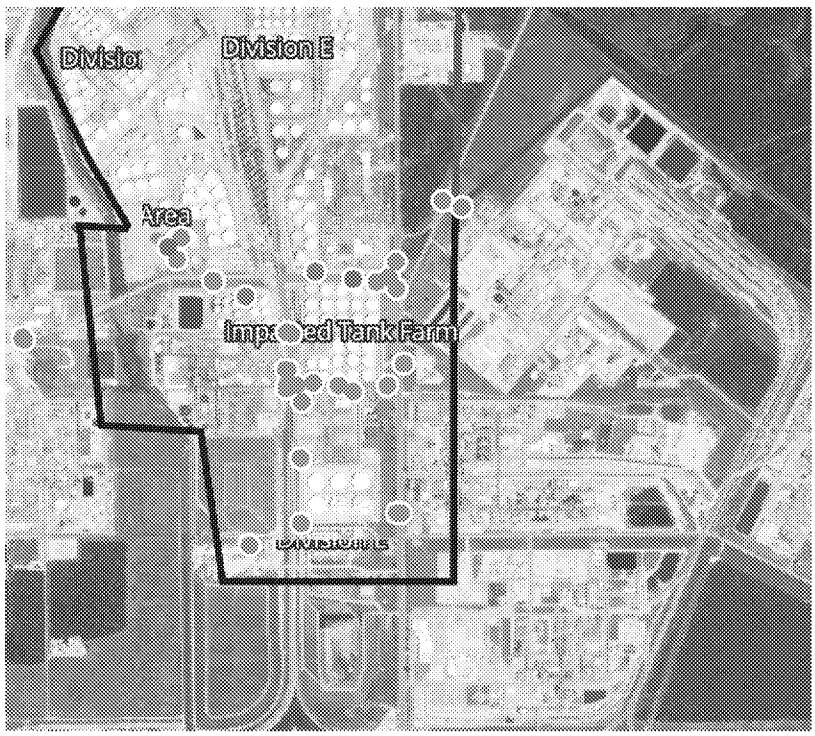
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 02:59:35	Division E	29.7536120,-95.0931650	https://www.google.com/maps/search/?api=1&query=29.7536120,-95.0931650	1.0250 ppm
4/13/2019 02:58:44	Division E	29.7331220,-95.0937840	https://www.google.com/maps/search/?api=1&query=29.7331220,-95.0937840	1.9300 ppm
4/13/2019 02:57:50	Division E	29.7250650,-95.0936560	https://www.google.com/maps/search/?api=1&query=29.7250650,-95.0936560	1.8700 ppm
4/13/2019 02:56:15	Division E	29.7331220,-95.0937840	https://www.google.com/maps/search/?api=1&query=29.7331220,-95.0937840	1.6800 ppm
4/13/2019 02:27:30	Division E	29.7331270,-95.0935490	https://www.google.com/maps/search/?api=1&query=29.7331270,-95.0935490	1.4000 ppm
4/13/2019 02:25:03	Division E	29.7321460,-95.0934180	https://www.google.com/maps/search/?api=1&query=29.7321460,-95.0934180	1.1700 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 3:00:00 AM to 4/13/2019 4:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 03:05:44	2.700 ppm
	4/13/2019 03:16:49	0.100 ppm
	4/13/2019 03:57:58	0.130 ppm
	4/13/2019 03:44:59	3.560 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 3:00:00 AM to 4/13/2019 4:00:00 AM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 03:44:59	Division E	29.7526890, -95.0945330	https://www.google.com/maps/search/?api=1&query=29.7526890,-95.0945330	3.5600 ppm
4/13/2019 03:05:44	Division E	29.7383460, -95.0924040	https://www.google.com/maps/search/?api=1&query=29.7383460,-95.0924040	2.7000 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/13/2019 7:19:58 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0200 Benzene Update
Attachments: 20190413_0100_benzene_report.pdf; 20190413_0200_benzene_report.pdf

All,

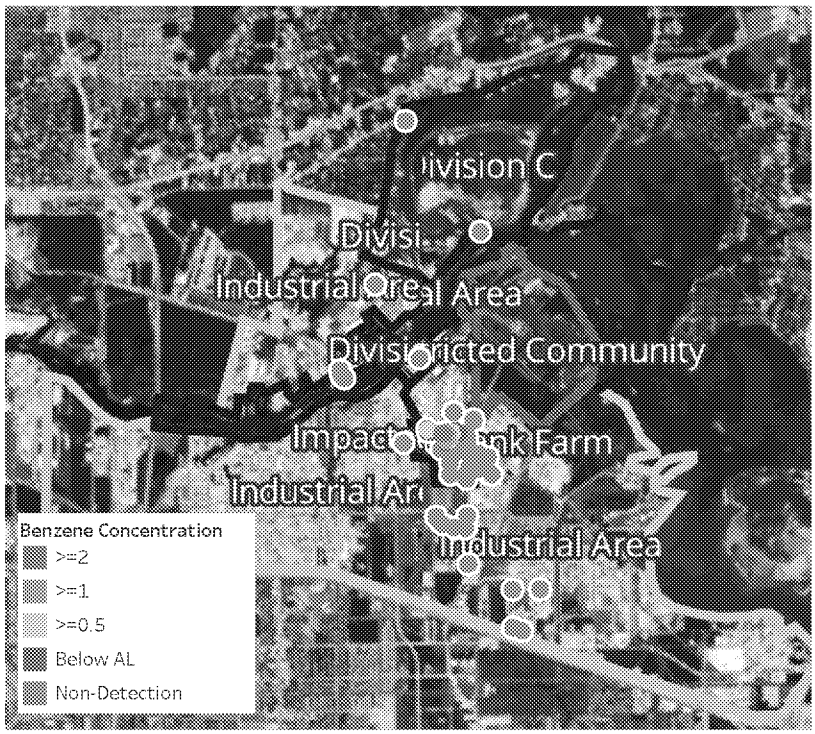
Attached are the benzene reports from 0000 – 0200.

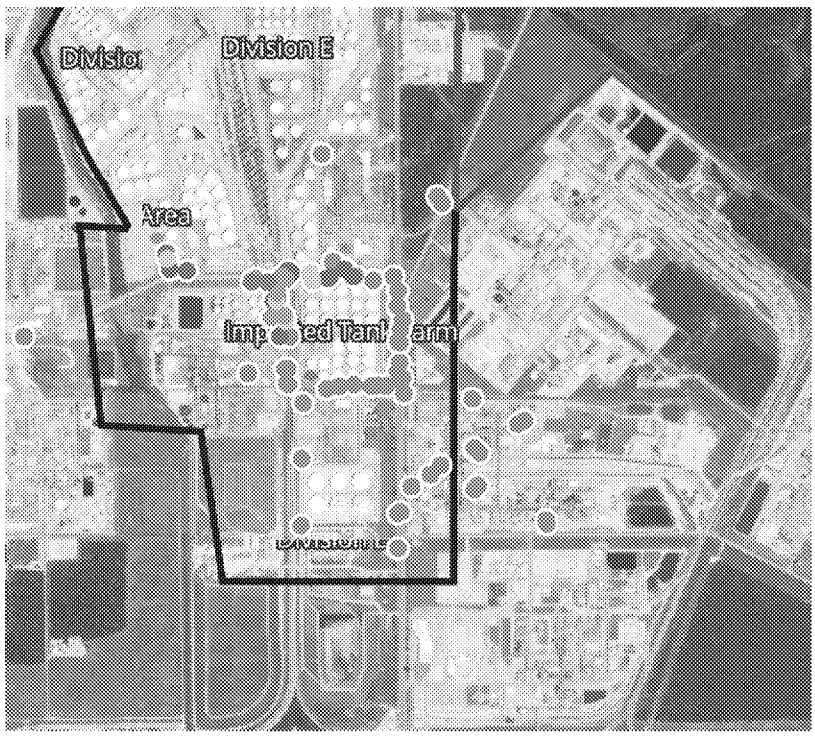
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 12:00:00 AM to 4/13/2019 1:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 00:00:47	1.450 ppm
	4/13/2019 00:02:20	0.200 ppm
	4/13/2019 00:07:47	0.275 ppm
	4/13/2019 00:22:37	0.840 ppm
	4/13/2019 00:25:31	0.020 ppm
	4/13/2019 00:24:44	0.260 ppm
	4/13/2019 00:21:23	1.100 ppm
	4/13/2019 00:25:28	0.450 ppm
	4/13/2019 00:15:39	0.080 ppm
	4/13/2019 00:19:27	0.670 ppm
	4/13/2019 00:27:43	0.450 ppm
	4/13/2019 00:28:13	0.320 ppm
	4/13/2019 00:29:05	0.400 ppm
	4/13/2019 00:31:24	0.600 ppm
	4/13/2019 00:31:46	0.640 ppm
	4/13/2019 00:34:50	0.730 ppm
	4/13/2019 00:33:08	1.150 ppm
	4/13/2019 00:33:56	1.990 ppm
	4/13/2019 00:30:12	0.380 ppm
	4/13/2019 00:26:04	0.340 ppm
	4/13/2019 00:36:30	3.170 ppm
	4/13/2019 00:36:36	0.340 ppm
	4/13/2019 00:38:00	1.090 ppm
	4/13/2019 00:39:10	0.440 ppm
	4/13/2019 00:39:00	0.320 ppm
	4/13/2019 00:35:07	0.420 ppm
	4/13/2019 00:48:39	0.750 ppm
	4/13/2019 00:47:02	0.760 ppm
	4/13/2019 00:36:47	1.526 ppm
	4/13/2019 00:30:05	0.650 ppm
	4/13/2019 00:40:29	2.975 ppm
	4/13/2019 00:56:04	0.950 ppm
	4/13/2019 00:53:33	1.120 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 12:00:00 AM to 4/13/2019 1:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

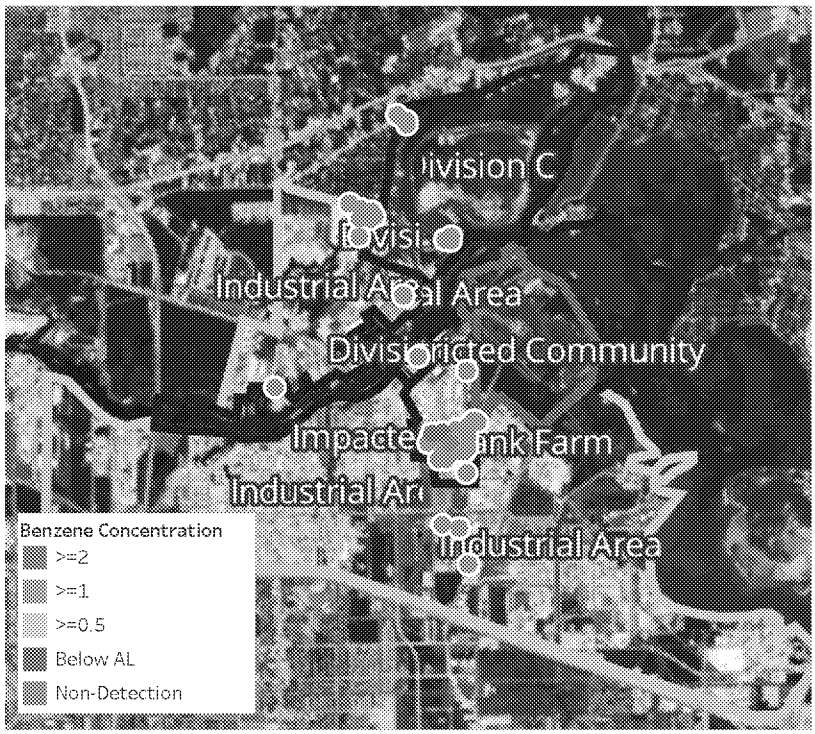
PRELIMINARY

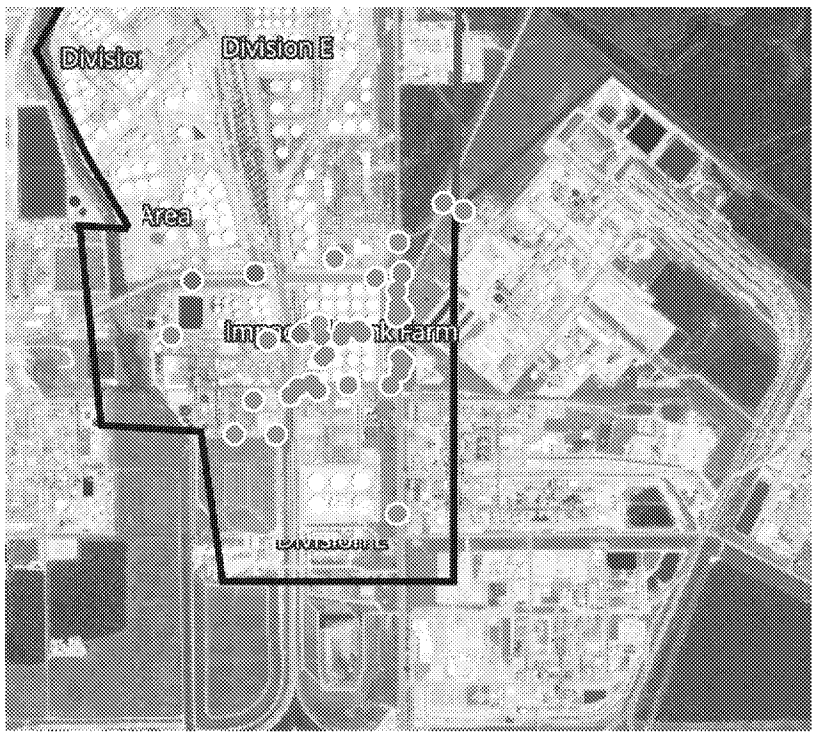
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 00:53:33	Division E	29.7332260,-95.0934380	https://www.google.com/maps/search/?api=1&query=29.7332260,-95.0934380	1.120 ppm
4/13/2019 00:40:29	Division E	29.7330630,-95.0936610	https://www.google.com/maps/search/?api=1&query=29.7330630,-95.0936610	2.975 ppm
4/13/2019 00:38:00	Division E	29.7327740,-95.0935671	https://www.google.com/maps/search/?api=1&query=29.7327740,-95.0935671	1.090 ppm
4/13/2019 00:36:47	Division E	29.7331680,-95.0942210	https://www.google.com/maps/search/?api=1&query=29.7331680,-95.0942210	1.520 ppm
4/13/2019 00:36:30	Division E	29.7331687,-95.0935705	https://www.google.com/maps/search/?api=1&query=29.7331687,-95.0935705	3.170 ppm
4/13/2019 00:33:56	Division E	29.7321570,-95.0932870	https://www.google.com/maps/search/?api=1&query=29.7321570,-95.0932870	1.990 ppm
4/13/2019 00:33:08	Division E	29.7321594,-95.0938197	https://www.google.com/maps/search/?api=1&query=29.7321594,-95.0938197	1.150 ppm
4/13/2019 00:21:23	Division E	29.7321080,-95.0937500	https://www.google.com/maps/search/?api=1&query=29.7321080,-95.0937500	1.160 ppm
4/13/2019 00:00:47	Division E	29.7321780,-95.0933550	https://www.google.com/maps/search/?api=1&query=29.7321780,-95.0933550	1.460 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/13/2019 1:00:00 AM to 4/13/2019 2:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/13/2019 01:36:02	0.025 ppm
	4/13/2019 01:27:45	0.326 ppm
Impacted Tank Farm	4/13/2019 01:31:11	0.610 ppm
	4/13/2019 01:40:31	0.500 ppm
	4/13/2019 01:34:39	0.390 ppm
	4/13/2019 01:39:51	2.270 ppm
	4/13/2019 01:51:32	1.290 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/13/2019 1:00:00 AM to 4/13/2019 2:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/13/2019 01:51:32	Impacted Tank Farm	29.7519560, -95.0922650	https://www.google.com/maps/search/?api=1&query=29.7519560,-95.0922650	1.2900 ppm
4/13/2019 01:39:51	Impacted Tank Farm	29.7310820, -95.0926650	https://www.google.com/maps/search/?api=1&query=29.7310820,-95.0926650	2.2700 ppm

Message

From: Jacob Bird [jbird@cteh.com]
Sent: 4/12/2019 7:30:21 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]; Jacob Bird [jbird@cteh.com]
Subject: 1400 Benzene Report
Attachments: 20190412_1300.pdf; 20190412_1400_Benzene_Report.pdf

All,

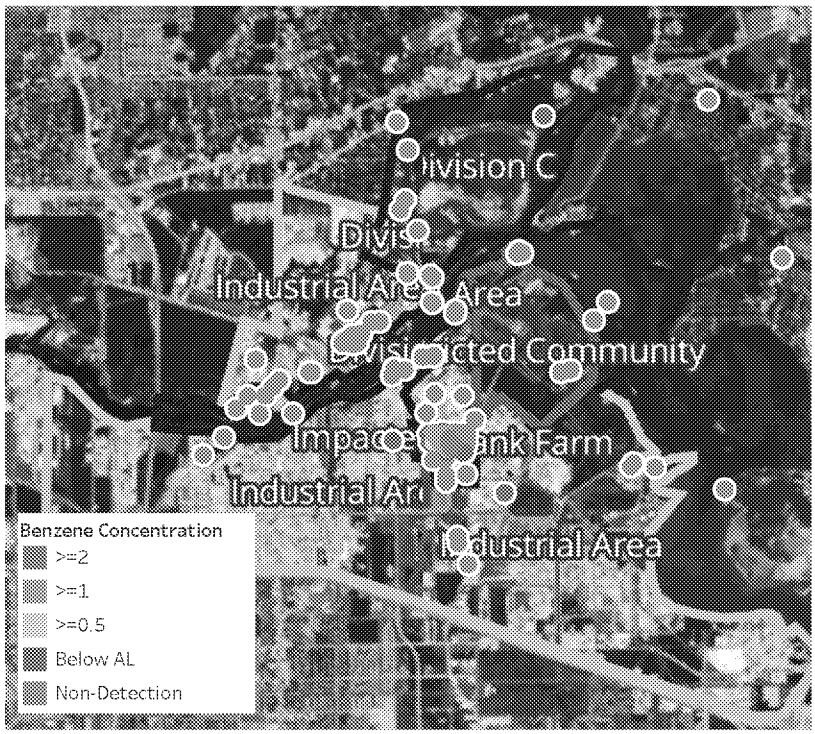
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

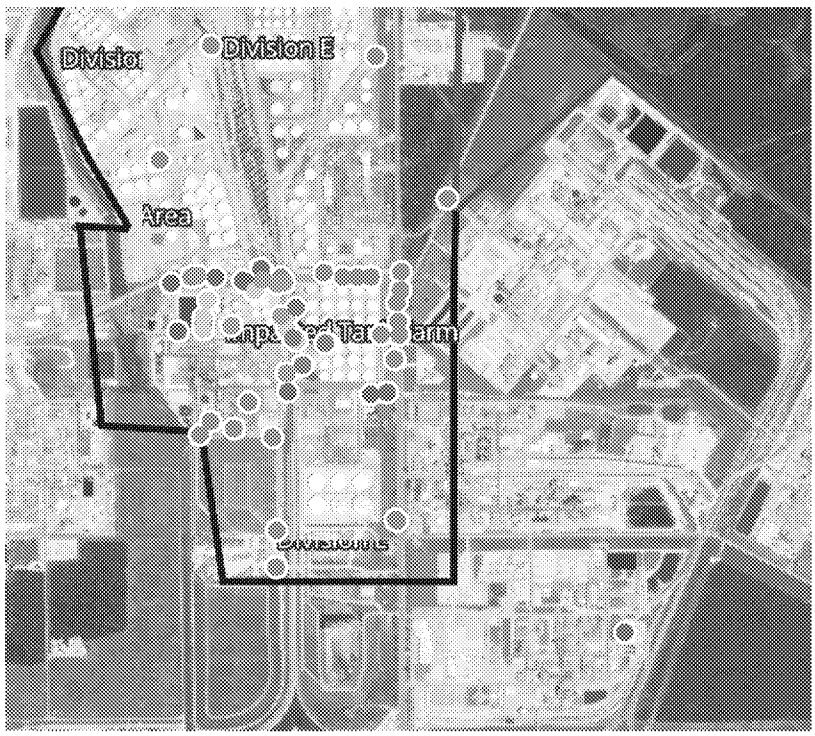
Sincerely,

Jacob Bird, BS
Director, Logistics & Operations Support
CTEH, LLC
Office: 501-801-8628 | Mobile: 501-366-3074
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jbird@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 12:00:00 PM to 4/12/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/12/2019 12:55:57	0.180 ppm
Division E	4/12/2019 12:03:15	1.090 ppm
	4/12/2019 12:02:10	0.020 ppm
	4/12/2019 12:08:18	0.330 ppm
	4/12/2019 12:09:42	0.530 ppm
	4/12/2019 12:13:29	0.240 ppm
	4/12/2019 12:17:18	0.100 ppm
	4/12/2019 12:21:39	2.680 ppm
	4/12/2019 12:21:35	0.040 ppm
	4/12/2019 12:24:58	0.560 ppm
	4/12/2019 12:26:08	0.930 ppm
	4/12/2019 12:24:26	0.330 ppm
	4/12/2019 12:28:47	0.530 ppm
	4/12/2019 12:26:57	0.020 ppm
	4/12/2019 12:32:23	1.125 ppm
	4/12/2019 12:34:48	0.770 ppm
	4/12/2019 12:29:08	0.150 ppm
	4/12/2019 12:26:13	0.040 ppm
	4/12/2019 12:23:26	1.570 ppm
	4/12/2019 12:27:52	1.640 ppm
	4/12/2019 12:39:28	1.800 ppm
	4/12/2019 12:47:28	3.760 ppm
	4/12/2019 12:49:53	0.520 ppm
	4/12/2019 12:54:06	1.800 ppm
	4/12/2019 12:59:36	0.600 ppm
	4/12/2019 12:56:54	1.660 ppm
	4/12/2019 12:54:06	0.240 ppm
	4/12/2019 12:49:00	0.140 ppm
	4/12/2019 12:52:51	0.490 ppm
	4/12/2019 12:50:51	0.070 ppm
Impacted Tank Farm	4/12/2019 12:34:24	2.240 ppm
	4/12/2019 12:45:28	2.225 ppm
Industrial Area	4/12/2019 12:00:50	0.130 ppm

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Reading Date
4/12/2019 12:00:00 PM to 4/12/2019 1:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

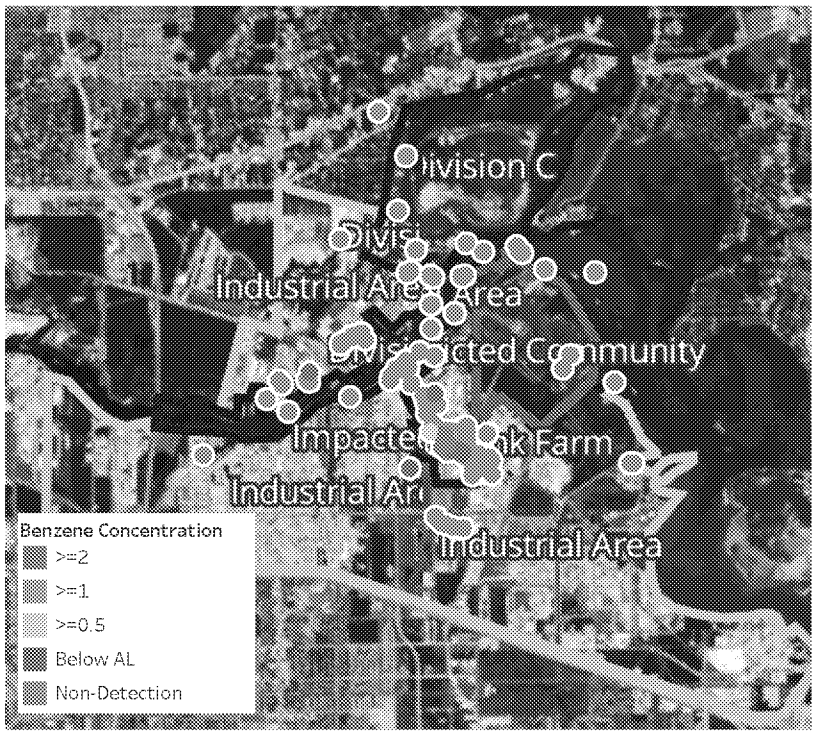
Recent Benzene Detections Greater than 1.00 ppm

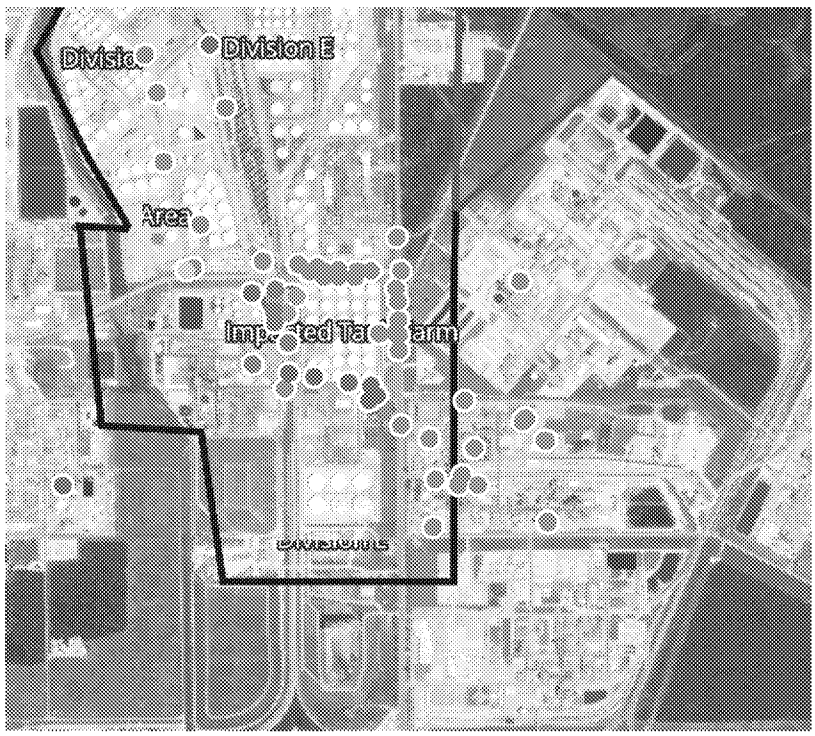
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 12:56:54	Division E	29.7530570,-95.0933540	https://www.google.com/maps/search/?api=1&query=29.7530570,-95.0933540	1.660 ppm
4/12/2019 12:54:06	Division E	29.7307660,-95.0932760	https://www.google.com/maps/search/?api=1&query=29.7307660,-95.0932760	1.300 ppm
4/12/2019 12:47:28	Division E	29.7315950,-95.0930840	https://www.google.com/maps/search/?api=1&query=29.7315950,-95.0930840	3.760 ppm
4/12/2019 12:45:28	Impacted Tank Farm	29.7323920,-95.0929940	https://www.google.com/maps/search/?api=1&query=29.7323920,-95.0929940	2.225 ppm
4/12/2019 12:39:28	Division E	29.7321600,-95.0934410	https://www.google.com/maps/search/?api=1&query=29.7321600,-95.0934410	1.800 ppm
4/12/2019 12:34:24	Impacted Tank Farm	29.7314550,-95.0920980	https://www.google.com/maps/search/?api=1&query=29.7314550,-95.0920980	2.240 ppm
4/12/2019 12:32:23	Division E	29.7322380,-95.0959940	https://www.google.com/maps/search/?api=1&query=29.7322380,-95.0959940	1.125 ppm
4/12/2019 12:27:52	Division E	29.7331200,-95.0940250	https://www.google.com/maps/search/?api=1&query=29.7331200,-95.0940250	1.640 ppm
4/12/2019 12:23:26	Division E	29.7350240,-95.0935610	https://www.google.com/maps/search/?api=1&query=29.7350240,-95.0935610	1.070 ppm
4/12/2019 12:21:39	Division E	29.7306705,-95.0927940	https://www.google.com/maps/search/?api=1&query=29.7306705,-95.0927940	2.680 ppm
4/12/2019 12:03:15	Division E	29.7519160,-95.0946570	https://www.google.com/maps/search/?api=1&query=29.7519160,-95.0946570	1.090 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 1:00:00 PM to 4/12/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division A	4/12/2019 13:51:50	0.150 ppm
Division E	4/12/2019 13:02:36	0.090 ppm
	4/12/2019 13:07:44	0.350 ppm
	4/12/2019 13:11:39	0.040 ppm
	4/12/2019 13:15:24	1.340 ppm
	4/12/2019 13:14:08	0.340 ppm
	4/12/2019 13:17:21	0.050 ppm
	4/12/2019 13:15:47	0.020 ppm
	4/12/2019 13:21:02	0.020 ppm
	4/12/2019 13:22:31	1.300 ppm
	4/12/2019 13:24:54	0.020 ppm
	4/12/2019 13:25:51	0.300 ppm
	4/12/2019 13:27:40	2.390 ppm
	4/12/2019 13:32:04	2.960 ppm
	4/12/2019 13:37:13	0.060 ppm
	4/12/2019 13:40:45	1.040 ppm
	4/12/2019 13:44:13	2.710 ppm
	4/12/2019 13:44:44	2.310 ppm
	4/12/2019 13:44:42	0.540 ppm
	4/12/2019 13:07:48	3.125 ppm
	4/12/2019 13:53:30	0.570 ppm
Impacted Tank Farm	4/12/2019 13:09:01	1.325 ppm
	4/12/2019 13:24:41	0.375 ppm
	4/12/2019 13:36:36	0.750 ppm
Industrial Area	4/12/2019 13:32:50	0.100 ppm

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Reading Date
4/12/2019 1:00:00 PM to 4/12/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 13:44:44	Division E	29.7514570,-95.0932290	https://www.google.com/maps/search/?api=1&query=29.7514570,-95.0932290	2.310 ppm
4/12/2019 13:44:13	Division E	29.7328750,-95.0936250	https://www.google.com/maps/search/?api=1&query=29.7328750,-95.0936250	2.710 ppm
4/12/2019 13:40:45	Division E	29.7322470,-95.0932500	https://www.google.com/maps/search/?api=1&query=29.7322470,-95.0932500	1.040 ppm
4/12/2019 13:32:04	Division E	29.7319990,-95.0936380	https://www.google.com/maps/search/?api=1&query=29.7319990,-95.0936380	2.960 ppm
4/12/2019 13:27:40	Division E	29.7323060,-95.0936690	https://www.google.com/maps/search/?api=1&query=29.7323060,-95.0936690	2.390 ppm
4/12/2019 13:22:31	Division E	29.7525000,-95.0936540	https://www.google.com/maps/search/?api=1&query=29.7525000,-95.0936540	1.390 ppm
4/12/2019 13:15:24	Division E	29.7525750,-95.0936310	https://www.google.com/maps/search/?api=1&query=29.7525750,-95.0936310	1.340 ppm
4/12/2019 13:09:01	Impacted Tank Farm	29.7326900,-95.0929640	https://www.google.com/maps/search/?api=1&query=29.7326900,-95.0929640	1.325 ppm
4/12/2019 13:07:48	Division E	29.7309940,-95.0943150	https://www.google.com/maps/search/?api=1&query=29.7309940,-95.0943150	3.135 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/13/2019 5:23:10 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2400 Benzene Update
Attachments: 20190412_2300_benzene_report.pdf; 20190413_0000_benzene_report.pdf

All,

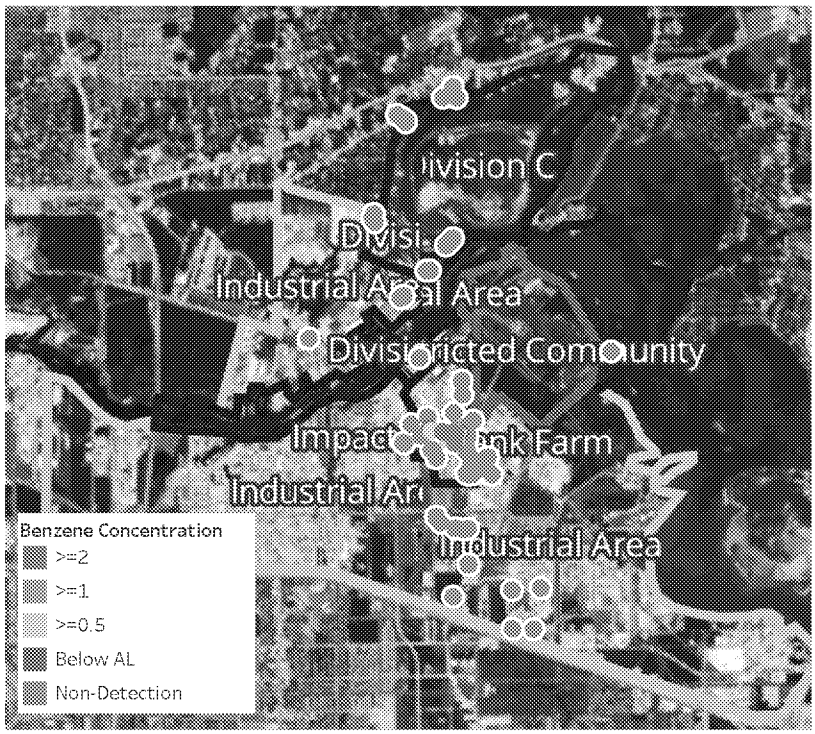
Attached are the benzene reports from 2300 – 2400.

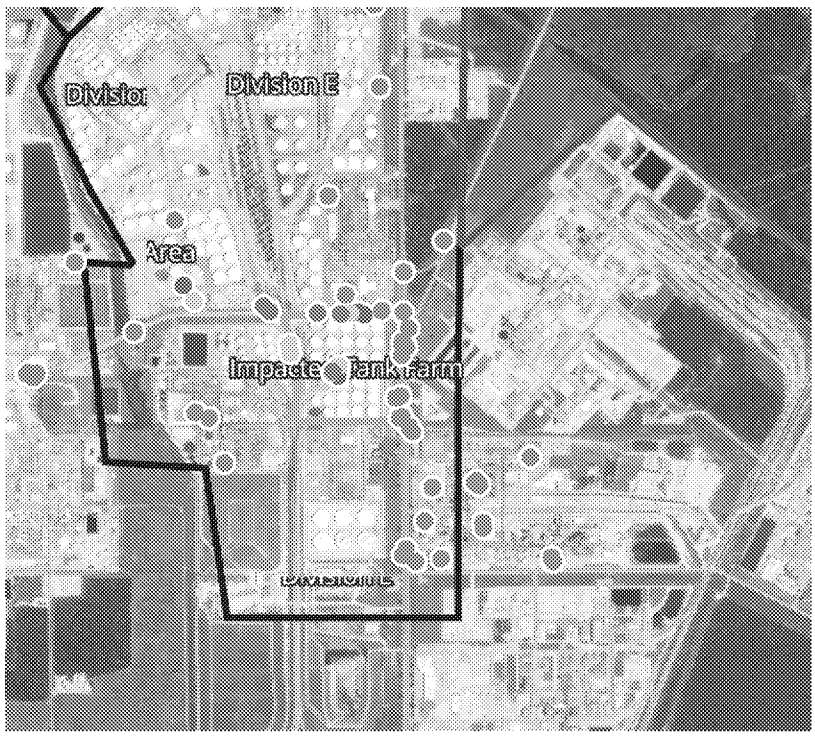
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 10:00:00 PM to 4/12/2019 11:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 22:00:39	2.240 ppm
	4/12/2019 22:09:57	0.780 ppm
	4/12/2019 22:04:48	1.980 ppm
	4/12/2019 22:05:19	5.790 ppm
	4/12/2019 22:11:32	0.070 ppm
	4/12/2019 22:12:48	0.220 ppm
	4/12/2019 22:12:15	0.550 ppm
	4/12/2019 22:19:33	0.326 ppm
	4/12/2019 22:54:18	4.676 ppm
	4/12/2019 22:49:16	2.526 ppm
	4/12/2019 22:57:33	0.750 ppm
	4/12/2019 22:54:24	0.675 ppm
Impacted Tank Farm	4/12/2019 22:13:13	0.570 ppm
	4/12/2019 22:06:28	0.260 ppm
	4/12/2019 22:53:40	3.580 ppm
	4/12/2019 22:54:04	0.640 ppm

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Reading Date
4/12/2019 10:00:00 PM to 4/12/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

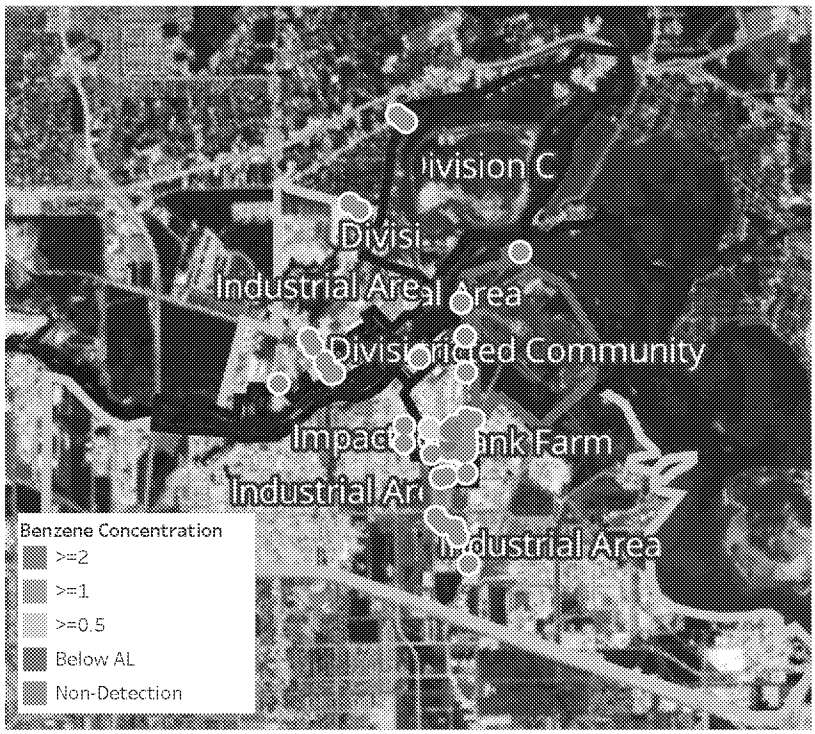
PRELIMINARY

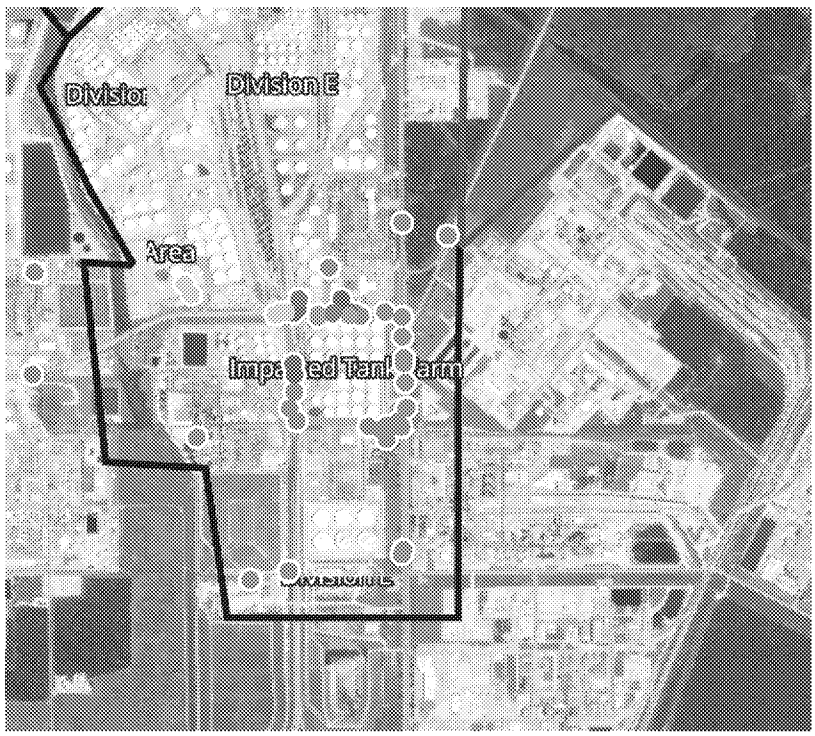
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 22:54:18	Division E	29.7532840,-95.0939430	https://www.google.com/maps/search/?api=1&query=29.7532840,-95.0939430	4.676 ppm
4/12/2019 22:53:40	Impacted Tank Farm	29.7310840,-95.0920260	https://www.google.com/maps/search/?api=1&query=29.7310840,-95.0920260	5.580 ppm
4/12/2019 22:49:16	Division E	29.7354210,-95.0941320	https://www.google.com/maps/search/?api=1&query=29.7354210,-95.0941320	2.526 ppm
4/12/2019 22:05:19	Division E	29.7332050,-95.0917840	https://www.google.com/maps/search/?api=1&query=29.7332050,-95.0917840	5.790 ppm
4/12/2019 22:04:48	Division E	29.7332100,-95.0917930	https://www.google.com/maps/search/?api=1&query=29.7332100,-95.0917930	1.930 ppm
4/12/2019 22:00:39	Division E	29.7532398,-95.0924907	https://www.google.com/maps/search/?api=1&query=29.7532398,-95.0924907	2.240 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 11:00:00 PM to 4/13/2019 12:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 23:00:39	0.650 ppm
	4/12/2019 23:15:55	1.790 ppm
	4/12/2019 23:14:07	2.326 ppm
	4/12/2019 23:19:12	1.820 ppm
	4/12/2019 23:14:57	0.470 ppm
	4/12/2019 23:17:57	2.640 ppm
	4/12/2019 23:21:38	1.150 ppm
	4/12/2019 23:21:45	1.000 ppm
	4/12/2019 23:10:53	0.826 ppm
	4/12/2019 23:16:42	0.600 ppm
	4/12/2019 23:24:56	0.350 ppm
	4/12/2019 23:22:13	0.110 ppm
	4/12/2019 23:29:53	0.990 ppm
	4/12/2019 23:25:16	0.410 ppm
	4/12/2019 23:35:46	0.860 ppm
	4/12/2019 23:57:59	0.475 ppm
	4/12/2019 23:54:44	0.175 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 11:00:00 PM to 4/13/2019 12:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 23:21:45	Division E	29.7321310,-95.0924660	https://www.google.com/maps/search/?api=1&query=29.7321310,-95.0924660	1.060 ppm
4/12/2019 23:21:38	Division E	29.7321950,-95.0924610	https://www.google.com/maps/search/?api=1&query=29.7321950,-95.0924610	1.150 ppm
4/12/2019 23:19:12	Division E	29.7252110,-95.0920950	https://www.google.com/maps/search/?api=1&query=29.7252110,-95.0920950	1.300 ppm
4/12/2019 23:17:57	Division E	29.7252460,-95.0920060	https://www.google.com/maps/search/?api=1&query=29.7252460,-95.0920060	2.640 ppm
4/12/2019 23:15:55	Division E	29.7331730,-95.0915270	https://www.google.com/maps/search/?api=1&query=29.7331730,-95.0915270	1.790 ppm
4/12/2019 23:14:07	Division E	29.7326070,-95.0930540	https://www.google.com/maps/search/?api=1&query=29.7326070,-95.0930540	2.326 ppm

ICS 233 - Open Action Tracker

Version Name: Overall

Incident Name: 2nd 80's Fire

Period: Period 14 [04/11/19 07:00 - 04/14/19 07:00]

No.	Description	For/POC	Briefed	Start Date	Status	Notes	Target Date	Comp Date
1	Reestablish hot zone	Operations Section	☐	03/20/2019 05:27	Complete			03/20/2019 23:16
2	Identify and order the appropriate type of de-foamer to prevent foaming in tank 50-2 when the liquids are recovered from the ground	Logistics Section	☐	03/20/2019 04:44	Complete	Agencies prefer that defoamer not be used. UPDATE: Tentative approval granted for use within the tank farm. Any use will be approved prior to operations. LSC determined that defoamer is no longer needed		04/03/2019 12:08
3	Develop a list of all possible solutions to remove all the water and tank products from within the tank farm	Operations Section	☐	03/20/2019 05:00	Complete	Need to discuss ideas with consultants and contractors.		03/21/2019 15:34
4	Obtain additional UltraRaes	Logistics Section	☐	03/20/2019 05:03	Complete			03/20/2019 23:17
5	Follow up on reported first responder exposures and possible medical treatments	Public Information Officer	☐	03/20/2019 19:17	Complete			03/21/2019 15:34
6	Establish routine reporting of check-in/out responder status at every meeting	Planning Section	☐	03/20/2019 19:17	Complete			03/21/2019 15:35
7	Confirm USCG participation in Unified Command	Incident Commander	☐	03/20/2019 19:17	Complete			03/21/2019 10:55
8	Establish staging area locations	Operations Section	☐	03/20/2019 19:17	Complete	Need to add to map.		03/21/2019 10:57
9	Ensure there is enough foam for ongoing operations	Logistics Section	☐	03/20/2019 19:17	Complete			03/20/2019 23:19
10	Remove Pygas from 80-7	Operations Section	☐	03/20/2019 19:17	Complete	Started pumping to 100-28. Have lost prime multiple times, but still pumping at a lower rate. Stopped pumping at 1046		03/21/2019 19:43
11	Confirm if hose transfer operations have started	Operations Section	☐	03/20/2019 19:17	Complete	Confirmed at 0827 on 21 Mar		03/21/2019 15:36
12	Identify pump capabilities needed for transfer operations	Logistics Section	☐	03/20/2019 19:17	Complete			03/23/2019 11:45

13	Develop plan to handle water and product long term (barge, tank, etc.)	Operations Section	☐	03/20/2019 19:17	Standby	IC to meet with Operations at 00:15 on 3/21 Plan to pump containment area to 100-28 with potential to go to other tanks and potential 80-18, all resources en route. In progress of acquiring an ocean going barge for transport to disposal.		
14	Identify timeline for next media release	Public Information Officer	☐	03/20/2019 19:17	Complete	Only on the next significant change		04/05/2019 07:34
15	Confirm if Clean Harbors has been evacuated	Public Information Officer	☐	03/20/2019 19:17	Complete	Personnel on site.		03/20/2019 23:24
16	Share the JIC contact number in the Command Post (post on Sit Display)	Public Information Officer	☐	03/20/2019 19:17	Complete			03/20/2019 23:32
17	Develop a meal schedule and communicate it to the field personnel	Logistics Section	☐	03/20/2019 19:17	Complete			03/20/2019 23:32
18	Confirm if the potential agency investigation will impact the ITC investigation timeline	Incident Commander	☐	03/20/2019 19:17	Complete			03/21/2019 15:38
19	Notify all ITC employees of the potential agency investigation and that they may be questioned	Public Information Officer	☐	03/20/2019 19:17	Complete	As investigations begin, all employees will be notified.		04/02/2019 12:11
20	Send out Customer Communication update	Liaison Officer	☐	03/20/2019 19:17	Ongoing	Pending legal review		
21	Confirm status of Texas Molecular	Liaison Officer	☐	03/20/2019 19:17	Complete	Powers is out.		03/20/2019 23:24
22	Schedule a meeting with Deer Park to discuss action levels for air monitoring readings	Liaison Officer	☐	03/21/2019 05:50	Complete	Need to discuss the levels that should be reported and the levels that should be recommended for shelter in place notification to community		03/22/2019 08:26
23	Develop and implement an effective hot zone plan	Safety Officer	☐	03/21/2019 07:05	Ongoing			
24	Obtain radios that will allow the ICP to speak directly with the field personnel	Logistics Section	☐	03/21/2019 07:05	Complete	IS devices		03/21/2019 19:45
25	Engage NWS to provide forecasts	NOAA SSC	☐		Complete	Paige Doeling is workiong		03/22/2019 08:21

26	Develop Waste Management Plan	Environmental Unit Leader	☐	03/21/2019 14:29	In Progress	Awaiting EU adjustments to re-submit		
27	Develop Water Sampling Plan	Environmental Unit Leader	☐	03/21/2019 14:29	In Progress	Adressing TCEQ Comments		
28	Develop RAT (Rapid Assessment) Plan	Environmental Unit Leader	☐	03/21/2019 14:30	Complete	In review by agencies		03/23/2019 11:46
29	Review 232 - Resources at Risk	Environmental Unit Leader	☐	03/21/2019 14:30	Complete			03/21/2019 18:10
30	Move foam totes out of hot zone when able	Operations Section	☐	03/21/2019 15:40	In Progress			
31	Notify neighboring stakeholders prior to submersing pump	Operations Section	☐	03/21/2019 17:29	Complete	Update: ITC no longer using submersing pump		04/03/2019 12:09
32	Obtain Source Samples of product and foam	Environmental Unit Leader	☐	03/21/2019 15:30	Complete			04/03/2019 11:01
33	Develop Documentation Guidelines to include document/information sharing.	Planning Section Chief	☐	03/22/2019 03:46	Complete	With Legal		04/05/2019 16:49
34	Develop decon plan	Environmental Unit Leader	☐		Complete	Ensure plan accounts for volume tracking and final disposal location.		03/24/2019 08:41
35	Trajectory analysis	Situation Unit Leader	☐		Ongoing			
36	Develop Lightering Plan	Environmental Unit Leader	☐		Complete			03/23/2019 17:43
37	IC Needs update on remediation options Tank farm and Tucker Bayou	Logistics Section	☐		Complete	Update: Resources secured, adsorbents, skimming and access to Dow side of Tucker's Bayou	03/23/2019 21:00	04/03/2019 12:13
38	Create specific meeting schedule for UC	Planning Section Chief	☐	03/24/2019 08:22	Complete			03/24/2019 16:43
39	Develop a comprehensive hydraulic plan to ensure monitors discharge simultaneously.	Operations	☐	03/24/2019 15:48	Complete	Discontinued by operations.		03/27/2019 07:58
40	Verify that we don't need a 2nd disposal tank	Operations Section	☐	03/26/2019 17:55	Complete	Resources acquired and complete		04/03/2019 12:13
41	Clear 2 lanes of traffic on Independence Parkway (for limited and industry usage)	Operations Section	☐	03/27/2019 08:38	Ongoing			
42	Validate Hot Zone Barricades are present	Safety Officer	☐	03/27/2019 09:05	Complete			03/28/2019 08:29
43	Develop Wildlife Management Plan	Texas Parks & Wildlife	☐	03/27/2019 09:14	Complete			03/30/2019 08:20

44	Follow up with Vopak on air monitoring readings	CTEH/Safety	☐	03/27/2019 15:26	Ongoing			
45	Develop a SCAT Plan	Environmental Unit	☐	03/27/2019 15:28	Awaiting Feedback	Awaiting TCEQ & EPA Approval(done) ***4/12/19 at 19:50hrs TCEQ provided feedback to the EUL.		
46	Develop a land based Decant Plan	Environmental Unit	☐	03/27/2019 15:28	Complete	Rejected by UC		03/28/2019 06:34
47	Develop a vessel based Decant Plan	Environmental Unit	☐	03/27/2019 15:28	Complete	Rejected by UC		03/28/2019 06:35
48	Surface Water Sampling Results	Planning Section	☐	03/28/2019 10:27	Ongoing	Awaiting sampling analysis results, delay from PFAS accreditation in labs. (5 day turn around)		
49	Demobilization Plan	Planning Section	☐	03/29/2019 10:00	Complete	First review done		04/04/2019 17:25
50	Share distribution list for agencies.	Planning Section	☐	03/30/2019 08:20	Complete			04/05/2019 07:38
51	Environmental End Points and Techniques	Environmental Unit Leader	☐	03/28/2019 00:00	Complete	Merged with SCAT Plan		04/10/2019 12:45
52	Passing Vessel Decon Plan	Environmental Unit Leader	☐	03/24/2019 00:00	Complete			03/28/2019 09:14
53	Tank Sampling Plan	Environmental Unit Leader	☐	03/29/2019 00:00	Complete	Under Revision		04/01/2019 13:16
54	Equipment Decontamination Plan	Environmental Unit Leader	☐	03/29/2019 00:00	Awaiting Feedback	Awaiting TCEQ Approval		
56	Approval for, and startup of, ITC wastewater plant	TCEQ	☐	04/01/2019 13:16	In Progress	With TCEQ		
57	Acquire Air Monitoring for investigation team.	Operations Section	☐		Complete	Investigation team awaiting approval for entry	04/08/2019 00:00	04/10/2019 14:23
58	Waste Characterization and Disposal Plan	Environmental Unit Leader	☐	03/31/2019 08:00	Complete	Merged with Waste Management Plan		04/10/2019 12:46
59	Fire Plan	ITC	☐	04/02/2019 15:33	In Progress	Tuckers Bayou		
60	Section 7 Consult	EPA	☐	04/05/2019 00:00	In Progress	DOI and DOC Contacted		
61	ATSDR Consult	EPA	☐	04/05/2019 00:00	Standby	On hold		

62	Develop contingency plan for workers in the event of lightening in the work area.	Operations Section	☐	04/06/2019 00:00	Complete	Awaiting feedback	04/03/2019 00:00	04/04/2019 15:34
63	206 & 208 format discussion	OSC / SOFRs	☐	04/04/2019 00:00	Complete			04/03/2019 16:52
64	Foam Assessment Procedure	Environmental Unit Leader	☐	04/05/2019 09:09	Complete			04/06/2019 12:00
65	Hook up TRG cradlepoint to ITC network	Logistics Section Chief	☐	04/06/2019 12:06	Complete	Awaiting approval		04/06/2019 12:07
66	Create technical workgroup to determine transition to normal operations	UC	☐	04/08/2019 15:15	Complete			04/10/2019 14:21
67	Develop a safe work plan for water-based flushing, decon, safe entry into confinng spaces within impacted zone - pier/docks/combing.	SOFR/OPS	☐	04/08/2019 15:20	Ongoing		04/14/2019 00:00	
68	Develop transition plan	Workgroup	☐	04/09/2019 08:12	Standby	Pends Endpoints and Metrics	04/13/2019 00:00	
69	Define endpoints and metrics for incident operations	Workgroup	☐	04/09/2019 08:12	In Progress		04/13/2019 00:00	

04/07/2019 14:43	Situation Unit: High winds and severe thunderstorms compromised containment boom in Tucker Bayou and the CEMEX docks along the Houston Ship Channel. Vessel Traffic in San Jacinto River and the Houston Ship Channel was suspended until the containment boom could be restored, and any obstructions removed from the channel.
04/07/2019 15:00	Phantom 4 drone is up and streaming video from Tucker Bayou. All boom is still intact. Skimming operations to resume at approx. 15:30.
04/07/2019 15:26	Second Phantom 4 drone is up and streaming video along Carpenters Bayou. Booms are intact.
04/07/2019 15:45	Third Phantom 4 up and streaming video of Patrick Bayou. Based on the absence of any water flow, no rainfall adding to the watershed has reach this area yet. All boom is intact.
04/07/2019 16:00	Wildlife Branch: Wildlife Update: No impacted wildlife today.
04/07/2019 16:10	Fourth Phantom 4 drone up and streaming video over affected tank farm.
04/07/2019 18:45	Drone up and streaming video over tank farm area.
04/07/2019 20:00	Drone up and streaming video of tank entry.
04/07/2019 21:30	8.9 ppm Benzene reading at Safety Lane and Tidal Rd., 2 mins prior to reading was non detect. no elevated readings have been detected since.
04/07/2019 23:40	6 ppm Benzene was detected at Tidal Rd. and Safety Ln. in between 2 Vac Trucks operating with scrubbers plugged up.
04/08/2019 00:00	Drone flight over tank farm.
04/08/2019 00:53	2 personnel perform valve realignment on tank 80-8 with drone observation assist, 2nd drone flight used for additional observation.
04/08/2019 02:04	3.6 ppm Benzene detected at the intersection of Tidal Rd. and Independence, foam is being applied.
04/08/2019 05:30	Division and Group specific 204's delivered to the command posts for NRC and CTEH at Bayland Marina
04/08/2019 06:00	On-water operations safety briefing delivered to boat crew at the staging area
04/08/2019 06:25	On Water Operations - Total material recovered overnight in Division B was 1116 barrels total material on board to Texas Responder is 1,308 barrels total recovered material and total in the Kirby barge #29120 is 11,954 barrels.
04/08/2019 06:30	Daily tactical operations briefing at staging area.
04/08/2019 07:30	DIV A - Operations underway. Primary areas of focus on post storm boom assessment, Boggy Bayou, and Patrick Bayou.
04/08/2019 07:31	DIV B - Operations continue at Tucker Bayou. Resources for the Jacintoprt Task Force are being moved into the area. Post storm boom assessment and repair underway.
04/08/2019 07:32	DIV C - Operations underway. Primary areas of focus are on post storm boom assessment and repair, DECON of the Kirby fleet, and product recovery in Old River.
04/08/2019 07:33	DIV D - Operations underway with primary focus this morning on post storm boom assessment and repair, Bosco/Peggy Lake, and placing a 42" boom around the existing 18" boom around South Goat Island.
04/08/2019 07:34	DIV E - Operations continuing. Boom near DOW bridge will not be replaced following yesterdays removal as product successfully flowed to the Marcos at the head of Tucker Bayou.
04/08/2019 08:04	MSRC coordinating the relocation of Kirby barge 29120 from Carpenters Bayou to the Jacintoport doks
04/08/2019 08:35	Report that the cloud ceiling is to low for helicopter operations. Drone missions being assigned.
04/08/2019 10:24	Request passed to Hot Shot Team for an assessment of the marsh in DIV D Grid V29
04/08/2019 10:30	Phantom 4 Drone streaming video over Buffalo Bayou and Boggy Bayou
04/08/2019 13:09	Lamour skimmer being moved into Jacintoport
04/08/2019 14:27	30,000 bbl barge 29120 being relocated from Carpenters Bayou to Jacintoport dock.
04/08/2019 14:42	Hot Shot team reports that marsh in DIV D Grid v29
04/08/2019 15:33	Mavic3 drone streaming video over Jacintoport docks
04/08/2019 16:00	Wildlife Branch: Wildlife Update: Live Avian Intake - 4 total (In-house); Carcass DIF - 4 total (3 fish, 1 mammal)

04/08/2019 17:00	FOB: Drone up 16:57hr, 16:51hr started flushing (and to continue all night) Tucker Bayou at Bridge, fly North to overview and continue down Tucker Bayou, product at Dow Bridge, boom and product as bayou turns to left, and at 4 dock, and same at docks 1,2,3,. Fly back up bayou and back to base at 17:12hrs
04/08/2019 17:11	Wednesday from 1400hrs to Midnight: Flight Restriction for incident area due to Presidential visit to Houston area. No Helo or sUAS overflights from 1400 to Midnight on Wednesday April 10, 2019.
04/08/2019 17:20	FOB: Drone up 17:17hr to overview TF, check 8's valve, still leaking, man-way same. Go to 15 ramp as 4 man team in full gear and SCBA enters at 17:22hr. Go to tank 8 and check from 20' away. Take readings: 17:38hrs told to hold position as drone in for battery change and return and returns to area at 17:42hrs. Team given OK to proceed, 17:44hr go to 14 and take readings, to 15 and same, Teams split up and drone monitors. Back at 15, take add'l readings in area. All team member out 18:00hrs.
04/08/2019 17:25	On Water Operations - Total material recovered today in Division B was 430 barrels total material on board to Texas Responder is 2,118 barrels. Kirby Barge 29120 was moved to San Jacinto Port for storage of material recovered from the Lamor skimmer.
04/08/2019 18:09	FOB: Notified of "No Water OPS Night Shifts" North of Tank Farm
04/08/2019 18:38	FOB: 100 gallons of Bugs applied between 1st & 2nd 80's Road; end at 18:56.
04/08/2019 19:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 74,962bbls, Tank 100-28 has a current volume of 32,335bbls with a flow of 78/hr, Tank 80-33 has a current volume of 43,056bbls with a flow of 5/hr.
04/08/2019 19:00	Foam Count Update: 222 Totes 41 Drums
04/08/2019 19:15	Tank Farm Operations - Drone overflight of Tank 80-15.
04/08/2019 19:15	FOB: UAS drone flight launched; Observe manway of Tank 80-8. 19:20 Flight concluded.
04/08/2019 19:23	Tank Farm Operations - Drone overflight of Tank 80-15 complete.
04/08/2019 19:47	Vac Truck report for Tank 100-28: 4 - 130bbls 10- 70bbls Total of 590bbls
04/08/2019 20:00	Air Monitoring Detection Report: Benzene Div E - 16 readings ranging from 0.080ppm-2.120ppm Impacted Tank Farm - 1 reading of 1.580ppm Industrial Area - 2 readings - 0.510ppm & 0.690ppm
04/08/2019 20:31	FOB: Conducted Personnel Accountability Report (PAR) resulting in 33 ITC associates and contractors accounted for.
04/08/2019 20:48	FOB: Drone up 20:57hr. 20:58 Entry stood down due to drone technical difficulties. 20:59 Drone up and enroute. Entry will be limited by sufficient air supply and ability to maintain visual contact. All actions in the vicinity of Tank 80-8 manifold will be documented.Primary Objective: Remove remaining bolts on SE manway and blind on pig trap. Entry and exit by 80-1. Entry Team: Nate Stone and Chris Meeks. RIT: US Pumps. 2101 Drone has visual on Entry Team as they access the Tank Farm using 20190408_2045 Tank Farm Entry 80-8 JSA. 21:03 Tank Entry Team at 80-8 Tank manifold. 21:19 Drone departed for battery re-supply; Entry Team steps outside manifold to await drone return and check air supply. RIT has visual contact with Entry Team. 21:22 Drone aloft and en route to 80-8. Drone on station with visual of Entry Team.21:33 Entry Team returns to work.21:34 Entry Team re-opens pig trap and departs manifold area or 80-8. 21:36 RIT has visual of Entry Team. Drone released and returning to base. 21:38 Entry Team exits Tank Farm to DECON. Mission complete. Reference email summary and drawing in Incident Document.
04/08/2019 21:00	Air Monitoring Detection Report: Benzene Div E - 13 readings ranging from 0.030ppm-1.770ppm Impacted Tank Farm - 6 readings ranging from 0.120ppm-8.075ppm Industrial Area - 9 readings ranging from 0.050ppm & 0.260ppm

04/08/2019 21:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 75,612bbls with a flow of 312/hr Tank 100-28 has a current volume of 32,335bbls, Tank 80-33 has a current volume of 43,130bbls with a flow of 22/hr.
04/08/2019 22:00	Air Monitoring Detection Report: Benzene Div E - 9 readings ranging from 0.010ppm-0.500ppm Impacted Tank Farm - 21 readings ranging from 0.050ppm-1.450ppm Industrial Area - 1 reading of 0.040ppm
04/08/2019 22:02	at 20:55 detected 9.925 ppm Benzene reading at tank 80-22 continuance of trend to 22:02 , intermittent detections starting above 5 ppm.
04/08/2019 22:43	Tank Farm Operations - Foam application began on the manifold area of tank 80-8 between 80-9 and 80-12.
04/08/2019 22:54	0.91 ppm Benzene detected at the NW corner of Total Facility property. Foam will be applied.
04/08/2019 22:58	Vac Truck Report for Tank 100-28: 2 - 130bbls 0 - 70bbls Total of 2,60bbls
04/08/2019 22:59	Tank Farm Operations - Foaming application of tank 80-8 manifold area complete. 2 totes of Universal Gold used.
04/08/2019 23:00	Vac Truck Report for 4 Dock: 1 - 70bbls Total of 70bbls
04/08/2019 23:00	Air Monitoring Detection Report: Benzene Div E - 12 readings ranging from 0.070ppm-1.840ppm Impacted Tank Farm - 4 readings ranging from 0.210ppm-9.925ppm Industrial Area - 3 readings ranging from 0.090ppm-0.420ppm
04/08/2019 23:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 76,419bbls with a flow of 403/hr, Tank 100-28 has a current volume of 32,545bbls with a flow of 105/hr, Tank 80-33 has a current volume of 43,130bbls.
04/08/2019 23:57	FOB: Fire discovered, reported in used carbon scrubber, and extinguished by Environmental Department. VAC Truck operations secure. Safety Stand-down scheduled to be held at 01:00 4/9/2019 at the Contractors Gate 19. All VAC Truck drivers to attend with Tank Farm FOB and Field Safety Officer.
04/09/2019 00:00	Air Monitoring Detection Report: Benzene Div E - 14 readings ranging from 0.020ppm-2.100ppm Impacted Tank Farm - 4 readings ranging from 0.475ppm-1.640ppm Industrial Area - 10 readings ranging from 0.030ppm-0.700ppm
04/09/2019 00:02	Tank Farm Operations - Drone IR Overflight of Tank 80-8 manifold.
04/09/2019 00:10	Total reporting Benzene reading of 0.70ppm. CTEH was deployed to monitor the area.
04/09/2019 00:14	Tank Farm Operations - Drone IR Overflight of Tank 80-8 manifold complete.
04/09/2019 00:14	3.82 ppm detected at Independence Rd. (adjacent to tank 80-14)
04/09/2019 01:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 77,000bbls with a flow of 292/hr, Tank 100-28 has a current volume of 32,578bbls with a flow of 17/hr, Tank 80-33 has a current volume of 43,130bbls.
04/09/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 21 readings ranging from 0.030ppm-3.825ppm Impacted Tank Farm - 1 readings of 5.225ppm Industrial Area - 7 readings ranging from 0.070ppm-0.425ppm

04/09/2019 01:46	Tank Farm Operations - Foam application of entire tank farm started.
04/09/2019 02:00	Air Monitoring Detection Report: Benzene Div E - 15 readings ranging from 0.050ppm-4.700ppm Impacted Tank Farm - 6 readings ranging from 0.180ppm-0.375ppm Industrial Area - 2 readings ranging from 0.025ppm-0.275ppm
04/09/2019 02:02	Tank Farm Operations - Foam application of tank farm containment area complete. 7 totes of Universal Gold used.
04/09/2019 02:50	Vac Truck Report for 4 Dock: 1 - 70bbls Total of 70bbls
04/09/2019 02:53	FOB: Drone up 03:10 hr. Entry will be limited by sufficient air supply and ability to maintain visual contact. All actions in the vicinity of Tank 80-8 manifold will be documented. Primary Objective: Visually evaluate liquid flow rates at 80-8. Secondary Objective: Evaluate liquid levels in 80-2 and 80-3. Entry and exit by 80-1. Entry Team: Nate Stone and Chris Meeks; RIT: US Pumps; ITC Safety: Chris Meeks. 03:12 Entry accessed Tank Farm using Entry Team accesses Tank Farm using 20190409_0315 Tank Entry JSA. 03:15 Entry Team takes position and indicates location of pig for drone images. Pig still flowing well. 03:17 Entry Team observes and indicates goo glow at manway. Team inspects manway. 03:21 Team departs Tank 80-8 manifold area to travel to 80-2 and 80-3. 03:26 Team inspects Tank 80-2 West manway; 03:28 inspects 80-3 level. 03:38 Team begins exit by retracing entrance route. 03:29 Drone returning to base. RIT has visual on Entry Team's exit. Reference email summary and drawing in Incident Document.
04/09/2019 03:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 77,133bbls with a flow of 67/hr, Tank 100-28 has a current volume of 32,644bbls with a flow of 33/hr, Tank 80-33 has a current volume of 43,165bbls with a flow of 27/hr.
04/09/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 9 readings ranging from 0.140ppm-1.420ppm Impacted Tank Farm - 11 readings ranging from 0.100ppm-9.100ppm Industrial Area - 3 readings ranging from 0.030ppm-0.090ppm
04/09/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 8 readings ranging from 0.030ppm-1.700ppm Impacted Tank Farm - 4 readings ranging from 0.025ppm-1.500ppm Industrial Area - 1 readings of 0.100ppm
04/09/2019 05:11	MSRC Operations - Total material recovered since 1700 yesterday in Division B - 310 barrels. Total material onboard the Texas Responder- 2,437 barrels. Total material recovered in San Jacinto Port (Lamor) -1,000 barrels.
04/09/2019 05:30	New operational period 204's delivered to CTEH and NRC at the Bayland Marina staging area
04/09/2019 06:15	Boat crew safety briefing underway at River Terrace staging area.
04/09/2019 06:30	Daily On-Water tactics briefing underway at River Terrace staging area
04/09/2019 07:00	DIV A - Boat crews en route to work assignments which include Boggy Bayou, Patrick Bayou, and the Demob DECON slip at Grid W11. The T&T Fire Boat has been requested to the mouth of Boggy Bayou to flush product to the Marco skimmer in that area.
04/09/2019 07:01	DIV B - Boat crews en route to work assignments which include Jacintoprt docks, Tucker Bayou, the ITC docks, and a pocket of product boomed off south of the Battleship Texas in Grid Square R20
04/09/2019 07:02	DIV C - Boat crews en route to work assignments which include the mouth of Old River, DECON of the Kirby fleet, and recovery in Carpenters Bayou. The Lynchburg Ferry Landing on the NE side of the channel was inspected by a Hotshot Team 4/8/19 and was found to be free of product.
04/09/2019 07:03	DIV D - Boat crews en route to work assignments which include completing the addition of a 42" boom ring around South Goat Island to support the existing 18" boom ring, final product recovery in the area of Bosco outside of the coffer dam adjacent to the NRG Power facility, and general boom inspection and maintenance along the ship channel. The recovery of product inside the coffer dam at the NRG power plant facility is delayed pending removal of the alligators in the pond.

04/09/2019 07:04	DIV E - Flush of the Tucker Bayou drainage ditch continues as well as VAC truck recovery at the Tidal Road end.
04/09/2019 08:00	First overflight underway
04/09/2019 08:16	FOB: Drone up 08:08hrs, 3 man team in full bunker gear and SCBA enters 08:14hr from 80-6 side going to 80-8, take readings, 15.55 & 1.15 benzene. Tighten man-way bolts, pig-trap leaking, install gasket and blind. Team ordered to back away as drone departs to change battery 08:26 and returns to site 08:30 and work resumes; close 2" valve on pig trap and install hex plug. No leaks, exit manifold area 08:33hrs. Take additional readings. 20.9 O2, 8 VOC, 0 LEL and 3.9 benzene near manifold area. At 08:39hrs entry team out. Drone departsl to base.
04/09/2019 09:30	Operations reviewing images from overflight. Resources being directed to recover product. There will be a noon overflight to assess effectiveness
04/09/2019 10:10	FOB: 10:19hrs UAS advises NO drone flight Wednesday the 10th 14:35hrs to 16:35hrs as restricted flight (s) into Ellington Field
04/09/2019 10:13	Demob DECON plan being reviewed with operations
04/09/2019 10:39	FOB: 10:36hrs hrs 5 man team enters tank farm in Pyrolon suits with APR and FRC under, 2 Harris County Fire Marshall personnel (David & Gustavo) and 2 ITC (Zack & Jesus), 1 CTEH (Derek); go to 80-8 manifold area. Take readings. No Fire Marshall drone. TRG drone on scene 10:42hrs, take pics, and video beginning 10:58hrs. Team takes pics, readings and notes. Team out at 11:03 hrs. Drone departs for base.
04/09/2019 11:13	Phantom 4 Drone overflight of the Santa Anna Marsh. No product visualized all the way back to drainage culvert.
04/09/2019 11:50	Demob DECON Medical Plan requested from Demob DECON Branch Director
04/09/2019 12:27	Phantom 4 Drone overflight of the perimeter of Goat Island
04/09/2019 12:42	FOB: TRG Drone in and overhead area 12:42 hrs. 5 man team enters 12:37hrs in Pyrolon suits with APR and FRC under, 2 Harris County Fire Marshall personnel (John & Shireen) and 2 ITC (Larry & Rafa), 1 CTEH (Derek); go to 80-8 manifold area. Take pics, notes...Pics and intermittent video by TRG drone. All team members out and drone departs 12:57hr
04/09/2019 13:00	Second overflight assessment underway
04/09/2019 13:05	FOB: D-gassing and vacuuming ops have continued (from outside TF) during the below noted tank farm entries by ITC separately or, jointly by Harris County Fire Marshall/CTEH/ITC personnel.
04/09/2019 13:31	FOB: 13:25hrs 5 person team enters TF, HCFM drone deployed. Team suited up as previous entry and includes 3 HCFM personnel (Eric, Bill and Jim); 2 ITC (Bravo and Larry), no CTEH . Go to 80-8, 10 and 11. Again take notes, pics, etc. All teams members out 13:50hrs.
04/09/2019 14:28	FOB: 14:20hrs. CLEARED Harris County Fire Marshall (HCFM) to resume operations in 80's Tank Farm tanks 2,3 and 10, BUT STAY CLEAR OF 80-8!
04/09/2019 14:55	Report via Wildlife that a SCAT found free floating product in Grid O22. Hotshot Team notified
04/09/2019 15:04	FOB: 15:00hrs 1 ITC man (Bravo) in and going to 80-3 to gather data for permit. Out at 15:04hrs
04/09/2019 15:08	Report from USCG of boom wrapped around a channel marker light and trailing into the channel in Grid M22 . Hotshot Team notified
04/09/2019 15:17	FOB: At 15:10hrs, 2 ITC teams enter; Wolf and Zack to 10 to hook hose to water draw and Larry and Randy to 15 to set up to wash at E. side man-way. Drone up 15:23hrs to observe, briefly, as both teams exit 15:25hrs.
04/09/2019 15:43	FOB: At 15:34hrs begin foaming 1st and 2nd 80's manifold with hand line. Complete 15:50 hrs. Used 2 totes Universal Gold 1-3%
04/09/2019 16:00	Wildlife Branch: Wildlife Update: Live Avian Intake - 4 total (In-house); Carcass DIF - 7 total (3 Avian, 4 Fish)
04/09/2019 16:18	FOB: CURRENTLY; Cleaning and washing 2,3 and15; D-gassing 14; Vac truck pulling from 7; 10 draining from water draw. Also, will build a barrier "fence" around 8's manifold tonight.
04/09/2019 16:35	FOB: Drone up and over 1st 80's where 4 T&T men (Tom, Cory, Ron and Scott) in full gear and SCBA and carrying fencing to begin building barrier around tank 8's manifold and enter at 16:50 hrs. Drone returns to base as crew initially NOT ready to enter. Returns to area at 16:53 to document operation. Job complete and all team member out at 17:03hrs. Drone departs to base.

04/09/2019 17:00	Air Monitoring Detection Report: Benzene Div E - 6 readings ranging from 0.030ppm-0.150ppm Industrial Area - 4 readings ranging from 0.020ppm-0.050ppm
04/09/2019 17:07	FOB: UPDATE: Advised that restriction on drone flights (NONE ALLOWED) on the 10th has been expanded 16:35hrs TO 17:45hrs due to incoming flight(s) into Ellington Field.
04/09/2019 17:18	FOB: Drone up and over tank 7 where 2 man ITC crew in 17:12hrs to re-locate hose. Complete. Drone departs for base. Team exits 17:19hrs.
04/09/2019 18:00	Air Monitoring Detection Report: Benzene Div E - 9 readings ranging from 0.020ppm-1.190ppm Impacted Tank Farm - 5 readings ranging from 0.080ppm-2.230ppm
04/09/2019 19:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 79,093bbls, Tank 100-28 has a current volume of 36,616bbls with a flow of 111/hr, Tank 80-33 has a current volume of 43,253bbls with a flow of 9/hr.
04/09/2019 19:00	Air Monitoring Detection Report: Benzene Div E - 8 readings ranging from 0.020ppm-1.50ppm Impacted Tank Farm - 3 readings ranging from 0.250ppm-6.350ppm Industrial Area - 5 readings ranging from 0.020ppm-0.050ppm
04/09/2019 19:59	FOB: Entry accesses Tank Farm using 20190409_2100 Tank Entry JSA. Drone up and over Entry Team at manifold of Tank 80-9. Tank opened and no liquid drains. 20:06 Team complete and moving to Tank 80-12 manifold. Entry Team at 80-12. 20:11 Drone at 50%. 20:14 Entry Team exits Tank Farm. Drone released for battery replenishment.
04/09/2019 20:00	Air Monitoring Detection Report: Benzene Div E - 13 readings ranging from 0.110ppm-1.375ppm
04/09/2019 20:37	FOB: Entry accesses Tank Farm using 20190409_2100 Tank Entry JSA with personnel watching by line of sight. US Pumps maintaining visual. 20:44 Drone up and over Entry Team at manifold of Tank 80-4. 20:56 Drone at 50%. 20:58 exit. Drone released; O/S personnel maintain line of sight on Entry Team.
04/09/2019 21:00	Air Monitoring Detection Report: Benzene Div E - 21 readings ranging from 0.040ppm-1.120ppm Impacted Tank Farm - 21 readings ranging from 0.100ppm-3.030ppm
04/09/2019 22:00	Air Monitoring Detection Report: Benzene Div E - 23 readings ranging from 0.030ppm-2.470ppm Impacted Tank Farm - 5 readings ranging from 0.280ppm-1.060ppm
04/09/2019 22:12	0.62 ppm Benzene was detected at Bay 1 of NTS, staff elected to stop work and leave facility for the night
04/09/2019 22:20	Tank Farm Operations - Seal on the scrubber at the 80's separator blew out.
04/09/2019 22:30	Full Face respirator in the tank farm area at Tidal Road
04/09/2019 22:30	FOB: Changed out bad pump at 003 Outfall.
04/09/2019 22:46	2.5 ppm Benzene was detected at intersection of Independence & Tidal RD. Police and workers at intersection were advise to relocate south.
04/09/2019 23:57	FOB: Entry Teams 1 and Entry Team 2 access Tank Farm using 20190409_2345 JSA Tank Farm Entry. 00:00 Drone overhead. Liquid coming from North Manway of 80-7. Secured tank. Team 2 proceeding to 80-10. Team 2 reports 80-10 as liquid from North manway. Secured tank. 00:06 Both teams on-site at Tank 80-1. 00:10 Team 2 starts on Tank 80-4. Opened valve and released liquid. 00:11 Drone at 50%. 00:18 Drone released for battery change; RIT has visual on both teams. 00:24 Both teams exit Tank Farm.

Incident Name: 2nd 80's Fire

04/10/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 6 readings ranging from 0.110ppm-1.770ppm Impacted Tank Farm - 15 readings ranging from 0.200ppm-1.120ppm
04/10/2019 02:00	Air Monitoring Detection Report: Benzene Div E - 3 readings ranging from 0.030ppm-0.2700ppm
04/10/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 3 readings ranging from 0.1700ppm-0.5900ppm Industrial area - 1 reading at 0.1000ppm
04/10/2019 04:00	Air Monitoring Detection Report: Benzene Div E - 9 readings ranging from 0.1600ppm-0.9100ppm
04/10/2019 05:00	Vac Truck Count: from 1800 - Now 11 - 70bbls 4 - 130bbls Total: 1,290bbls
04/10/2019 05:30	Delivered current operational period 204's and special message regarding air monitor draw-down to the Bayland staging area
04/10/2019 06:00	On-Water daily safety briefing underway
04/10/2019 06:30	Daily tactics briefing underway
04/10/2019 07:00	DIV A - Boat crews en route to assignments. Primary focus on product recovery in Boggy Bayou, along the Shell facility, and in the cut adjacent to the Demob Decon site in Grid W11
04/10/2019 07:01	DIV B - Boat crews en route to assignments. Primary focus on ITC docks, Jacintoport docks, and product sweeps on either side of the Battleship Texas
04/10/2019 07:02	DIV C - Boat crews en route to assignments. Primary focus on finishing Carpenters Bayou to allow that to be opened for vessel traffic, product recovery near mouth of Old River, and assessment of the marsh behind the Kirby barge fleet.
04/10/2019 07:03	DIV D - Boat crews en route to assignments. Primary focus on Bosco by the coffer dam, checking protective boom, and boom traffic control for barge facility east of Lynchburg ferry terminal.
04/10/2019 07:04	DIV E - Flush of Tucker Bayou drainage ditch continues and has been very successful.
04/10/2019 07:58	FOB: HCFM OK's removal of perimeter fencing of Tank Farm
04/10/2019 08:10	FOB: Tank 80-3 D-gasing and vac/cleaning finishing up (Horizon)
04/10/2019 08:11	FOB: Tank 80-2 Cleaning is complete. Will move to 80-5 (USA)
04/10/2019 08:12	TX Responder is waiting to off-load. Kirby Barge 28177 is being relocated to Carpenters Bayou from K-Solv dock as it is not a shallow water barge and is hitting bottom. Kirby Barge 301 will be moved to K-Solv dock.
04/10/2019 09:03	FOB: Drone up 08:52 and 4 man ITC team (Rafa, Bravo,Wolfe, Zack) enters 08:52hrs at 80-3/6 area to gather permit data at 5, samples 1,4,13 and reading at 1,4,5,10,13 and between 7 and 8. Drone departs 09:18 hrs. and all Team out 09:20hrs.
04/10/2019 09:30	Kirby Barge 301 (30k BBL) en route to dock at mouth of Carpenters Bayou
04/10/2019 10:13	FOB: Drone up 10:10hrs for Tank Farm overflight flight. Go to tanks 14, 15 , 7, 8 top, manifold, top again, go to 2, 3 manifold, top of 6, 5 manifold, go to Tidal Rd ditch, pic at what appears to be product-told to check, take benzene reading, dispatch vac truck; view cofferdam,continue down ditch, dams, to bridge. Drone departs for base 10:25hrs

04/10/2019 10:53	FOB: Drone up 10;54 hrs. Rafa and Bravo as Safety. 4 man ITC team (Lawrence, Patrick, Randy, Wolfe) in full gear and SCBA enters at 10:52hrs from 1st 80's under 20190410_Tank 80-5 Man-way 201-5 JSA and goes to tank 5. Bravo enters at 11:00 hrs. Team removes back man-way an NO product flow. Drone watching. Safety has visual on front man-way team. Readings in back man-way: 1593ppm benzene, 20.9 O2, 999VOC and 36 LEL. Front man-way open, NO product flow. No readings. Install hose in man-way and close water draw. All team members out 11:18hrs and drone departs for base.
04/10/2019 11:00	Physical inspection of the Jacintoport dock to develop a flushing strategy. There does not appear to be a way to flush from the outside. There is a possibility that the product has not penetrated the underside of the dock. Dock management has opened multiple man-ways along the dock and CTEH is going to pull water samples today.
04/10/2019 11:00	Air Monitoring Detection Report: Benzene Div E - 23 readings ranging from 0.020ppm-0.690ppm Impacted Tank Farm - 7 readings ranging from 0.030ppm-0.4800ppm
04/10/2019 11:59	Temporary Flight Restriction (TFR) updated to 13:00 to 17:00
04/10/2019 12:00	Air Monitoring Detection Report: Benzene Div E - 24 readings ranging from 0.020ppm-0.600ppm Impacted Tank Farm - 8 readings ranging from 0.050ppm-2.170ppm
04/10/2019 12:17	Temporary Flight Restriction (TFR) updated to 14:30 to 17:00
04/10/2019 12:27	CTEH is on-site in Jacintoport pulling water samples
04/10/2019 12:47	The Lamore MTU100 skimmer is currently out of service due to debris puncturing a hydraulic hose that controls the skimming head. Planning for replacement is underway
04/10/2019 13:59	FOB: NO drone due to restriction. At 14:05 hrs two 2 man T&T teams in full gear and SCBA enters at 2nd 80's going to open front man-ways on Tanks 9 and 12; try to open rear MWs. One 2 man team out at 14:25 hrs. On tank 80-9 front MW one bolt still on, rear draining with one bolt on; on 80-12 four bolts left on front, nothing coming out; rear still closed. 2nd team (everyone) now out 14:34 hrs.
04/10/2019 14:30	Kirby Barge 28177 has been removed from K-Solve dock for transit to Carpenters Bayou. Kirby Barge 301 is being moved to the K-Solve dock. Due to transfer delay at Decon, there are VAC trucks waiting at K-Solv to unload.
04/10/2019 14:52	FOB: At 06:30hrs a Quality Marine employee was assisted to the ground and taken to Baytown Methodist by ambulance for medical attention and evaluation. USCG notified at 13:30hr mtg that it was a pre-existing condition not related to this event.
04/10/2019 15:00	Mavic3 Drone overflight of Jacintoport dock
04/10/2019 15:21	FOB: Vacuum truck used 05:00-15:00hrs: (37) 70 bbl and (16) 130bbl
04/10/2019 16:00	Wildlife Branch: Wildlife Update: Live Avian Intake - 2 total (In-house); Carcass DIF - 5 total (5 Avian)
04/10/2019 16:05	All VAC trucks currently at K-Solv are being redirected to Jacintoport dock to off-load into Kirby Barge 29120.
04/10/2019 16:07	The TX Responder is being off-loaded into Kirby Barge 28177, which will then go to the ITC dock to be pumped out into tank 100-28. In the morning the TX Responder and barge 28177 will be moved into Jacintoport and barge 29120 will go to the ITC dock to be off-loaded prior to operational placement.
04/10/2019 17:05	MSRC recovered 157 barrels today with Marcos and SBS's. Total recovered by the Lamor was 499 barrels. Total onboard the Texas Responder is 3,444 barrels.
04/10/2019 18:03	FOB: NRC to set up pump system and manifold on S. side of Tucker Bayou Bridge to provide a continuous flush of same for a time period to be determined.
04/10/2019 19:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 87,876bbls with a flow of 270/hr, Tank 100-28 has a current volume of 38,524bbls, Tank 80-33 has a current volume of 44,187bbls with a flow of 71/hr.
04/10/2019 19:51	Tank Farm Operations - PAR: 39 ITC & 77 contractors.
04/10/2019 21:00	Tank Farm Operations - Drone providing IR overview of entry team in tank farm at Tank 80-1.

04/10/2019 21:00	Air Monitoring Detection Report: Benzene Div E - 16 readings ranging from 0.010ppm-0.350ppm Impacted Tank Farm - 6 readings ranging from 0.430ppm-1.150ppm
04/10/2019 21:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 87,876bbls, Tank 100-28 has a current volume of 38,524bbls, Tank 80-33 has a current volume of 44,271bbls with a flow of 62/hr.
04/10/2019 21:23	Tank Farm Operations - Drone landed to change batteries.
04/10/2019 21:25	Tank Farm Operations - Drone is back in air to provide IR overview of tank farm entry team.
04/10/2019 21:41	Tank Farm Operations - Drone landed from providing IR overview of tank farm entry team.
04/10/2019 22:00	Air Monitoring Detection Report: Benzene Div E - 11 readings ranging from 0.0200ppm-0.9500ppm Impacted Tank Farm - 23 readings ranging from 0.020ppm-0.2700ppm
04/10/2019 23:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 88,301bbls with a flow of 78/hr, Tank 100-28 has a current volume of 38,524bbls, Tank 80-33 has a current volume of 44,205bbls with a flow of 36/hr.
04/10/2019 23:00	Air Monitoring Detection Report: Benzene Div E - 15 readings ranging from 0.030ppm-4.1500ppm Impacted Tank Farm - 8 readings ranging from 0.070ppm-0.330ppm
04/11/2019 00:00	Air Monitoring Detection Report: Benzene Div E - 7 readings ranging from 0.280ppm-4.100ppm Impacted Tank Farm - 1 readings @ 0.070ppm
04/11/2019 00:23	Air Monitoring - 7.8ppm reading at Tidal Rd and J from CTEH.
04/11/2019 00:26	Air Monitoring - 9.65ppm reading at Tidal Rd and J from CTEH.
04/11/2019 01:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 88,824bbls with a flow of 357/hr, Tank 100-28 has a current volume of 38,524bbls, Tank 80-33 has a current volume of 44,193bbls.
04/11/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 5 readings ranging from 0.030ppm-9.650ppm Impacted Tank Farm - 5 readings ranging from 0.020ppm-0.190ppm
04/11/2019 02:00	Air Monitoring Detection Report: Benzene No Detections
04/11/2019 02:02	Tank Farm Operations - Drone IR overflight of the tank farm.
04/11/2019 03:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 89, 331bbls with a flow of 254/hr, Tank 100-28 has a current volume of 38,524bbls, Tank 80-33 has a current volume of 44,241bbls with a flow of 62/hr.
04/11/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 5 readings ranging from 0.060ppm-0.400ppm
04/11/2019 03:51	Tank Farm Operations - Tank 100-1 is stripped, offline and relieving to 100-19.
04/11/2019 04:00	Air Monitoring Detection Report: Benzene Impacted Tank Farm - 9 readings ranging from 0.080ppm-1.260ppm

04/11/2019 04:03	FOB: 04:03 Entry Team accesses Tank Farm using 20190411_0400 JSA Tank Farm Entry. sUAS up and has Entry Team in sight. Entry Team opens sump valve and water draw. 04:11 Entry Tank out of Tank Farm; Drone released.
04/11/2019 04:32	Foam Count Update: 223 Totes 39 Drums
04/11/2019 04:32	Vac Truck Update: 4/10 19:00 - 4/11 04:00 6 - 70bbls 2 - 130bbls Total - 680bbls
04/11/2019 06:00	On- Water Operations - MSRC Texas Responder is empty no oil recovered overnight.
04/11/2019 08:30	DPSC notified by Bob Pfannstiel that OPS plans to remove boom to open up Carpenters Bayou, discussions ongoing; no boom will be remain in bayou. Also, informed of a discussion to open 3 Dock at Jacintopoint will temporarily be opened to allow a vessel access for refueling
04/11/2019 11:59	Tank Farm Operations - Drone overflight assessing the foam blanket on the tank farm.
04/11/2019 12:18	Situation Unit: The Upper Houston Ship Channel will be open to 24/7 vessel traffic for all in/out bound traffic. The reason behind this is: 1. Severe weather on Sunday (4/7/19) had no impact to on-water containment of product. 2. Bulk contaminants have remained localized and contained within boomed locations. 3. TCEQ's water samples indicating the presence of no contaminants remaining. 4. There has not been a need for decontamination of outbound vessels transiting through the affected area of the ship channel. JPNC Dock 3 is open to inbound traffic; inbound vessel expected at noon today (4/11/19). Any inbound traffic that moors in the affected area associated with the 2nd 80's Fire shall have to complete the decontamination process. The affected area includes all docks and piers on the waterway between Sam Houston Ship Channel Bridge, BOSTCO/Peggy Lake, and the I-10 Bridge crossing the San Jacinto River.
04/11/2019 12:45	Confirmed from B Pfannsteil the following: -As of 0700 on 4/12, Carpenter Bayou will be fully open for all traffic traveling IN to the bayou. Outbound traffic will be restricted to 0800-1730; this to be in place throughout Period 14. -On 4/12, SCAt Teams will begin to assess priority areas; priority area list to be provided to IMT on 4/11 -4/12, intention is to implement a mobile Decon Plan, currently establishing central Decon Station
04/11/2019 15:10	FOB: 1500 Report: Vac Trucks: -70 bbls--> 3 (4 Docks) 2 (100-28) -130 bbls--> 4 (100-28)
04/11/2019 16:00	FOB Tank Farm: Report 1600 hrs 4/11 to 0400 hrs 4/12 Vac Truck Totals: 70 bbls--> 06; 130 bbls--> 12.
04/11/2019 16:00	Wildlife Branch: Wildlife Update: Live Avian Intake - 1 (In-house); Carcass DIF - 1 (Reptile)
04/11/2019 16:15	FOB: 2 mam Vecta team in full gear and SCBA enter and go to 80-15 to continue cleaning ops. Exit 17:00 hrs.
04/11/2019 16:25	FOB: 2 man ITC team (Patrick and Wolf) in full gear and SCBA go 80-15 to open sump valve. Exit 16:37 hrs
04/11/2019 17:00	Air Monitoring Detection Report: Benzene Div E - 11 readings ranging from 0.030ppm-0.130ppm Impacted Tank Farm - 10 readings ranging from 0.050ppm-3.520ppm On Water - 1 reading of 0.100ppm
04/11/2019 17:41	FOB: 17:15 hrs. Drone up, go to TF for overview. Go to tank 15, 14 manifold, top OK; go to tank 7 manifold (slowing a bit), top, level down a lot, tank 4 manifold (flowing about same as last check); tank 1 manifold small leak; fly ditch where today's leak occurred at wall/foundation, need more cones to keep traffic out of area. Fly cofferdam, dams and again look at tanks 1,4,7 (Jesse D.). Drone departs to base 17:25 hrs.

04/11/2019 18:00	Air Monitoring Detection Report: Benzene Div E - 10 readings ranging from 0.020ppm-0.225ppm Impacted Tank Farm - 9 readings ranging from 0.030ppm-1.470ppm
04/11/2019 18:18	FOB: Drone up 18:13 hrs to view as closely as possible Tank 80-8 looking for/at man-ways. Drone departs 18:18 hrs.
04/11/2019 18:56	FOB: 18:57 Gene Martin entering with 01 Horizon at 80-9.
04/11/2019 19:00	Air Monitoring - CTEH reporting 0.58ppm reading at Texas Molecular
04/11/2019 19:00	VTS called reporting that the hard boom has detached at Houston Light 122 along the San Jacinto River at the north tip of the island. Lat.-29.74591 Long.-95.060916.
04/11/2019 19:00	Air Monitoring Detection Report: Benzene Div E - 28 readings ranging from 0.020ppm-2.070ppm Impacted Tank Farm - 3 readings ranging from 0.030ppm-0.060ppm
04/11/2019 19:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 82,973bbls with a flow of 1,542/hr, Tank 100-28 has a current volume of 44,030bbls with a flow of 878/hr, Tank 100-1 has a current volume of 9,728bbls with a flow of 1,578/hr Tank 80-33 has a current volume of 45,175bbls with a flow of 71/hr.
04/11/2019 19:40	FOB: 19:40 Entry accesses Tank Farm under 201904112000_JSA Tank Farm Entry. 19:48 Tank 80-11 opened and draining. Tank 80-7 manway flowing well. Team moving to 80-10. 19:52 sUAS launches flies recon mission; 19:54 80-8 back manway open 6-8 inches of liquid; left it open. 20:02 Entry Team exits the Tank Farm. Drone released and returning to base.
04/11/2019 20:00	Air Monitoring Detection Report: Benzene Div E - 7 readings ranging from 0.040ppm-0.8600ppm Impacted Tank Farm - 6 readings ranging from 0.040ppm-0.2800ppm
04/11/2019 20:12	Tank Farm Operations - Tank Entry consisting of Jim Drake (ITC), Cornell Sloan (USA), Eugene Martin (USA), Bryce Kelly (USA0) to conduct the following operations: Tank 80-5 : Setting the hose Tank 80-6 : Moving the hose from 80-3 to 80-6 Tank 80-9 : Setting the hose Tank 80-12: Rolling out the hose. Update: 20:48 entry team has exited the tank farm.
04/11/2019 20:19	Air Monitoring - CTEH reporting readings of 1.80ppm and 1.70ppm at National Tank Services
04/11/2019 20:55	Tank Farm Operations - Foaming operations begin in the tank farm on Tanks 80-7 & 80-10 manifolds utilizing the north side foam apparatus.
04/11/2019 20:56	Air Monitoring - CTEH reporting 0.85ppm reading at Texas Molecular.
04/11/2019 21:00	Tank Farm Operations - Tank Volume Update: per phone call with ops. Tank 100-15 has a current volume of 80,614bbls with a flow of 617/hr, Tank 100-28 has a current volume of 44,814bbls with a flow of 392/hr, Tank 100-1 has a current volume of 12,103bbls with a flow of 661/hr Tank 80-33 has a current volume of 45,307bbls with a flow of 66/hr.
04/11/2019 21:00	Air Monitoring Detection Report: Benzene Div E - 31 readings ranging from 0.030ppm-20.00ppm Impacted Tank Farm - 15 readings ranging from 0.080ppm-2.730ppm
04/11/2019 21:04	Air Monitoring - CTEH reporting above action level readings ranging from 7.0ppm-25.0ppm in the area of Tank 80-10 and Tank 80-13.
04/11/2019 21:06	Air Monitoring - CTEH reporting 2.6ppm reading at National Tank Service.
04/11/2019 21:06	Air Monitoring - Wind at Houston Hobby Airport is currently from the South South East.
04/11/2019 21:07	Texas Molecular is evacuating to Loves per CTEH. Update @ 21:15 Texas Molecular staff went home for the shift.

04/11/2019 21:09	Air Monitoring - CTEH reporting reading of 0.90ppm at the intersection of Tidal and Independence .
04/11/2019 21:13	National Tank Service is evacuating for the night per CTEH.
04/11/2019 21:36	Tank Farm Operations - Foaming application of tank farm containment area started. IC requested foam application due to benzene readings in the area.
04/11/2019 21:51	Tank Farm Operations - Foaming application of tank farm containment area complete.
04/11/2019 21:51	FOB: Vector 02 men enter 80-15; 22:10 Vector 02 men exit 80-15.
04/11/2019 22:00	Air Monitoring Detection Report: Benzene Div E - 13 readings ranging from 0.030ppm-25.00ppm Impacted Tank Farm - 12 readings ranging from 0.050ppm-1.530ppm
04/11/2019 22:01	FOB: sUAS observation flight to Tanks 80-7 & 80-10. 22:14 Drone released.
04/11/2019 22:43	FOB: Entry Team, Steven Blake and Jim Drake (ITC associates) access Tank Farm using 201904112243_JSA Tank Farm Entry to perform a status check Tanks: 80-7, 80-1, 80-4 & 80-10.
04/11/2019 23:00	Air Monitoring Detection Report: Benzene Div E - 30 readings ranging from 0.030ppm-11.81ppm Impacted Tank Farm - 1 reading @ 0.26ppm Restricted Community - 2 readings of 0.12ppm & 0.04ppm
04/12/2019 00:00	Air Monitoring Detection Report: Benzene Div E - 20 readings ranging from 0.030ppm-4.65ppm Impacted Tank Farm - 7 readings ranging from 0.30ppm-16.00ppm Restricted Community - 1 reading @ 0.15pp
04/12/2019 00:15	Tank Farm Operations - Drone overflight assessment of the foam blanket on the tank farm complete.
04/12/2019 00:31	Tank Farm Operations - Drone IR overflight of foam applications operations of the tank farm containment area.
04/12/2019 00:33	Tank Farm Operations - Foam application of the tank farm containment area.
04/12/2019 00:40	Air Monitoring - CTEH reporting a reading of 5.70ppm on the edge of Clean Harbors
04/12/2019 00:42	Tank Farm Operations - Foam application of the tank farm containment area complete.
04/12/2019 00:52	Tank Farm Operations - Drone IR overflight of foam applications operations of the tank farm containment area complete.
04/12/2019 00:53	Air Monitoring - CTEH reported a reading of 3.80ppm at Clean Harbors.
04/12/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 19 readings ranging from 0.010ppm-5.70ppm Impacted Tank Farm - 20 readings ranging from 0.05ppm-12.90ppm Industrial Area - 5 readings ranging from 0.03ppm-0.20ppm
04/12/2019 01:38	Tank Farm Operations - Tank farm entry team consisting of Jim Drake (ITC) and 1 Horizon member enter the tank farm to pull house to 80-1.
04/12/2019 01:46	Tank Farm Operations - Tank 80-1 fluid extraction started.
04/12/2019 01:48	Tank Farm Operations - Tank entry team exited the tank farm containment area.
04/12/2019 02:00	Air Monitoring Detection Report: Benzene Div E - 6 readings ranging from 0.010ppm-2.825ppm Impacted Tank Farm - 2 readings @ 1.370ppm-2.590ppm Industrial Area - 3 readings ranging from 0.190ppm-0.490ppm
04/12/2019 02:12	Tank Farm Operations - Entry team consisting of JD and Gene entered the tank farm to obtain status of tank 80-1 and 80-4.
04/12/2019 02:32	Tank Farm Operations - Entry team consisting of JD and Gene have exited the tank farm.

04/12/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 9 readings ranging from 0.125ppm-2.875ppm Impacted Tank Farm - 10 readings ranging from 0.690ppm-9.140ppm Industrial Area - 6 readings ranging from 0.020ppm-0.410ppm
04/12/2019 03:04	Air Monitoring - CTEH is reporting a benzene detection of 2.3ppm at Clean Harbors.
04/12/2019 03:27	Tank Farm Operations - Foam Update 214 totes 40 drums
04/12/2019 03:28	Tank Farm Operations - Foaming applications began utilizing 2 totes of foam.
04/12/2019 03:31	Air Monitoring - CTEH is reporting a benzene detection of 0.75ppm at Clean Harbors.
04/12/2019 03:34	Air Monitoring - CTEH is reporting a benzene detection of 1.46 at DOW.
04/12/2019 04:00	Vac Truck Volume: 4/11 16:00 - 4/12 04:00 6 - 70bbls 12 - 130bbls Total: 1,980bbls
04/12/2019 04:00	Air Monitoring Detection Report: Benzene Div E - 6 readings ranging from 0.13ppm-1.75ppm Impacted Tank Farm - 2 readings @ 12.12ppm-20.63ppm Industrial Area - 6 readings ranging from 0.090ppm-1.46ppm
04/12/2019 05:30	Tank Farm Operations - Foaming application started in between tanks 80-7 and 80-10.
04/12/2019 05:34	Tank Farm Operations - Foaming application in between tanks 80-7 and 80-10 completed utilizing 2 totes of Universal Gold.
04/12/2019 05:51	FOB: Direct Vac Truck to clean the area between 8-7 and 80-10. PPE: Bunker Gear and SCBA. 04 men: Zach, Wolfe, Larry Navarro, and Rafa Gracia (Readings) making entry at 80-1 ramp. RIT: US Pump.
04/12/2019 05:58	Air Monitoring - CTEH reporting a benzene reading of 28.2ppm at the tank farm.
04/12/2019 06:07	On Water Operations - No recovery activity for MSRC overnight. 0 barrels recovered.
04/12/2019 06:23	FOB: Drone up for watch of 04 man Entry Team that are entering Tank Farm from 80-15.
04/12/2019 06:34	FOB: Entry team increased to 06 men:Zach, Wolfe, Larry Navarro, Randy, Bravo and Rafa Gracia (Readings) making entry at 80-1 ramp. RIT: US Pump under 201904120600_JSA Tank Farm Entry; 06:35 Drone at 50%; 06:41 Drone at 30%; 06:42 Drone released for battery change. 06:45 Drone launched with batteries renewed. 06:46 Drone on station and directed to Tidal Road. Drone on station over TF. 07:04 Drone released for battery change.
04/12/2019 06:47	FOB: Report of incident vehicle versus pedestrian on Tidal Road across from 80-4; Hector Cadena responding & O/S. Pedestrian ok and good spirits; report to follow. 0653 CIR to IC.
04/12/2019 07:13	FOB: Entry team exited Tank Farm at 07:12.
04/12/2019 07:55	FOB: Diesel pump on 003 outfall blown gasket at 07:54. Pump back online at 08:40.
04/12/2019 08:49	FOB: Drone in the air for oversight of foaming operation of Tank Farm at 08:31. Drone landed at 08:49.
04/12/2019 08:52	FOB: Foam started at 08:32 for Tank 80-7, 80-10, 80-13. Foam ended at 08:45. 3 Universal Gold and 1 1/2 VSP totes used.
04/12/2019 09:04	FOB: Drone in the air at 08:57 to view Tank 80-11, viewed liquid coming out of the water draw. Drone landed at 09:02. Prepping entry team to enter Tank Farm to repair water draw on 80-11.
04/12/2019 09:33	FOB: Foam being placed on Tank Farm 1st 80's manifold started at 09:10. Foam ended at 09:30. 1 tote of Universal Gold was used.
04/12/2019 09:33	FOB: Wolf, Patrick, Zack and Rick (U.S. Fire) entered Tank Farm at 09:16 to Tank 80-11 close off water draw. Team exited Tank Farm at 09:20.

04/12/2019 09:36	FOB: Bravo makes entry into Tank Farm at 09:33 by 80-15 to take readings for Vecta to resume cleaning. Bravo exited Tank Farm at 09:35.
04/12/2019 09:56	FOB: 09:25 vac truck popped off hose at 4 Dock causing people to evacuate area.
04/12/2019 09:56	FOB: Wolf, Patrick and Zack entered Tank Farm at 09:38 to with tools to place templet on 80-7 for degassing. Drone in the air for oversight at 09:39. Team exited Tank Farm at 09:55. Drone landed at 09:56.
04/12/2019 10:39	FOB: Blocked in Tank Farm from outfall 003 to allow areas outside of Tank Farm to catch up at 10:37.
04/12/2019 11:21	FOB: At 10:26 NRC is reporting a small single propeller aircraft circling the facility. Aircraft has made approximately 10 passes around the facility. Due to cloudy weather conditions no others description of the aircraft is available.
04/12/2019 11:58	FOB: At 11:30, Contractor with ACV while moving from the boat to the dock at Enterprise has slipped, hit knee and twisted his ankle. Acadian is treating.
04/12/2019 13:05	FOB: Tank Farm opened to drain back into 003 outfall at 13:00.
04/12/2019 14:10	FOB: Blocked in Tank Farm from outfall 003 at 14:00.
04/12/2019 15:00	Air Monitoring Detection Report: Benzene Div E - 29 readings ranging from 0.02ppm-2.06ppm Impacted Tank Farm - 9 readings ranging from 0.520ppm-15.30ppm Restricted Community - 1 reading @ 0.08ppm
04/12/2019 15:10	FOB: Opened Tank Farm to drain back to 003 outfall at 15:05.
04/12/2019 15:13	FOB: Kirby barge 29120 arrived at 7 Dock at 12:00, secured at 12:30. Tankered men arrived at 14:00, currently awaiting CETH for benzene readings.
04/12/2019 15:24	FOB: Tank 80-1 completed at 15:15, Horizon moving to Tank 80-4.
04/12/2019 15:33	FOB: 09:00 Chevron Pipeline was out to inspect hexene pipeline on Tidal Rd. Pipeline was pressed to 140 psi (operating pressure) line was maintain for 4 hours at 140 psi; line was sampled and approved; at 15:00 normal flowing operation with no issues.
04/12/2019 16:00	Air Monitoring Detection Report: Benzene Div D - 2 readings 0.160ppm and 0.090ppm Div E - 16 readings ranging from 0.20ppm-1.260ppm Impacted Tank Farm - 5 readings ranging from 1.070ppm-4.325ppm Industrial Area - 1 readings @ 0.360ppm Restricted Community - 3 readings ranging from 0.100ppm-0.200ppm
04/12/2019 17:40	Air Monitoring - CTEH reporting a detection of 5.0ppm @ Ave. J.
04/12/2019 18:25	FOB: Drone up at 18:04, checked 80-15(top) 80-14(top) 80-11(manifold) 80-8(manifold) 80-10(manifold) 80-7(manifold and top); drone landed 18:16.
04/12/2019 18:50	VTS called and reported that there was a break in the hard boom located at Tucker Bayou @ dock 4 & 5. Sheen was heading out into the ship channel. Kevin Young (ITC) and Karl Kuhn (ITC) were notified and contacted Tina Mikes (OMI) to get the boom reattached.
04/12/2019 18:55	Individual was stopped exiting at the Tidal checkpoint in a White Subaru Outback Texas License Plate GSF-4508. The individual didn't have a badge and said his name was Donald Bruce with Greater Security Incorporated. Kevin Young (ITC) and Karl Kuhn (ITC) were notified.
04/12/2019 19:24	Tank Farm Operations - Vac Truck started vac operations at 003 outfall.

Second 80's Fire
Hot Zone Overview Map
04/10/2019 14:30
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:16,000
N
95°6'30"W
95°6'0"W
95°5'30"W
95°5'0"W
95°4'30"W
29°44'30"N
29°44'0"N
29°43'30"N
Hot
Warm
Hot
Foam Loading
Park Road 10-B
Park Road 10
Park Road 10-C
Trail Rd
Trail Rd
Trail Rd
Legend
Incidents
Real Event
Hot
Warm
Cold
0
1,000
2,000
3,000
4,000
5,000 Feet

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/13/2019 3:12:44 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190412_2100_benzene_report.pdf; 20190412_2200_benzene_report.pdf

All,

Attached are the benzene reports from 2000 – 2200.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
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Emergency Response 24-Hour Hotline: +1(866) 869-2834
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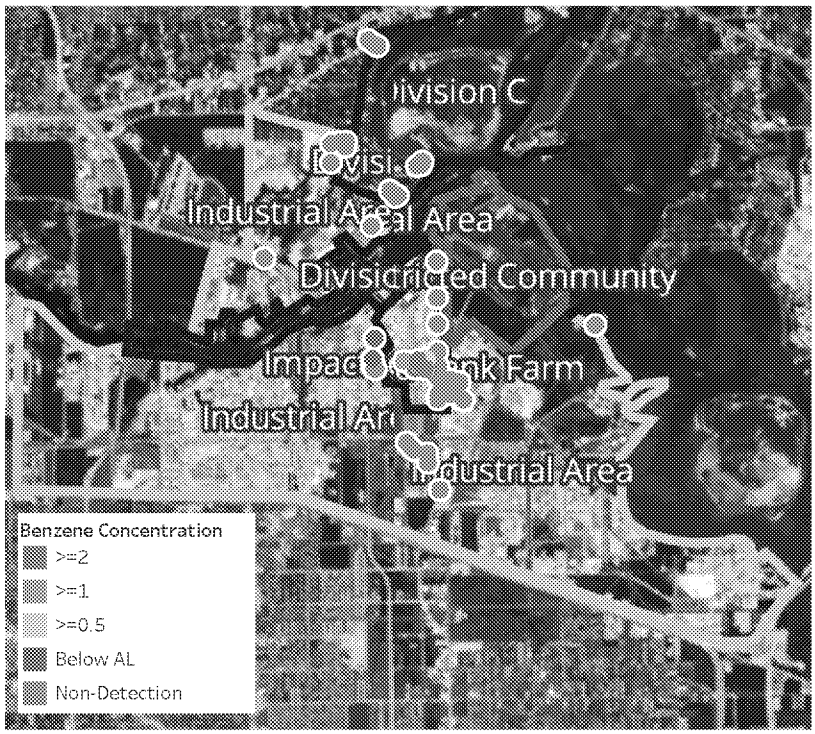
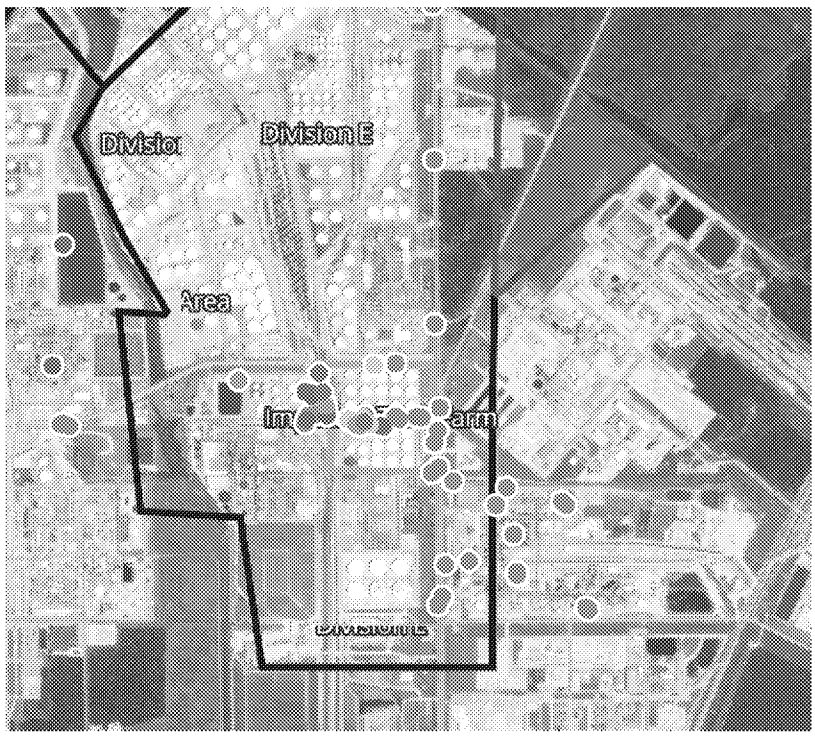
Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 8:00:00 PM to 4/12/2019 9:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 20:00:56	2.550 ppm
	4/12/2019 20:04:40	1.755 ppm
	4/12/2019 20:06:24	2.100 ppm
	4/12/2019 20:02:17	1.375 ppm
	4/12/2019 20:42:30	0.170 ppm
	4/12/2019 20:43:38	0.110 ppm
	4/12/2019 20:48:26	0.210 ppm
	4/12/2019 20:48:16	0.190 ppm
	4/12/2019 20:52:47	0.060 ppm
	4/12/2019 20:57:25	0.060 ppm
	4/12/2019 20:59:17	0.875 ppm
Impacted Tank Farm	4/12/2019 20:40:21	0.730 ppm
	4/12/2019 20:36:57	1.420 ppm
	4/12/2019 20:34:00	2.470 ppm
	4/12/2019 20:44:16	0.060 ppm
	4/12/2019 20:36:34	1.650 ppm
	4/12/2019 20:35:08	0.740 ppm
	4/12/2019 20:41:01	0.170 ppm
	4/12/2019 20:39:20	0.900 ppm
Industrial Area	4/12/2019 20:06:13	0.040 ppm
	4/12/2019 20:15:26	0.100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 8:00:00 PM to 4/12/2019 9:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

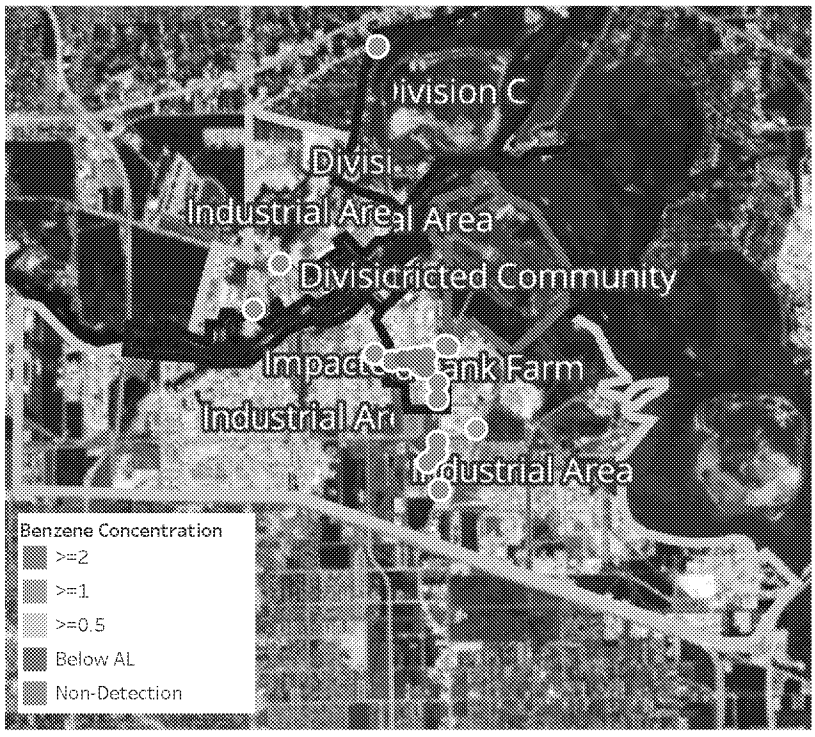
PRELIMINARY

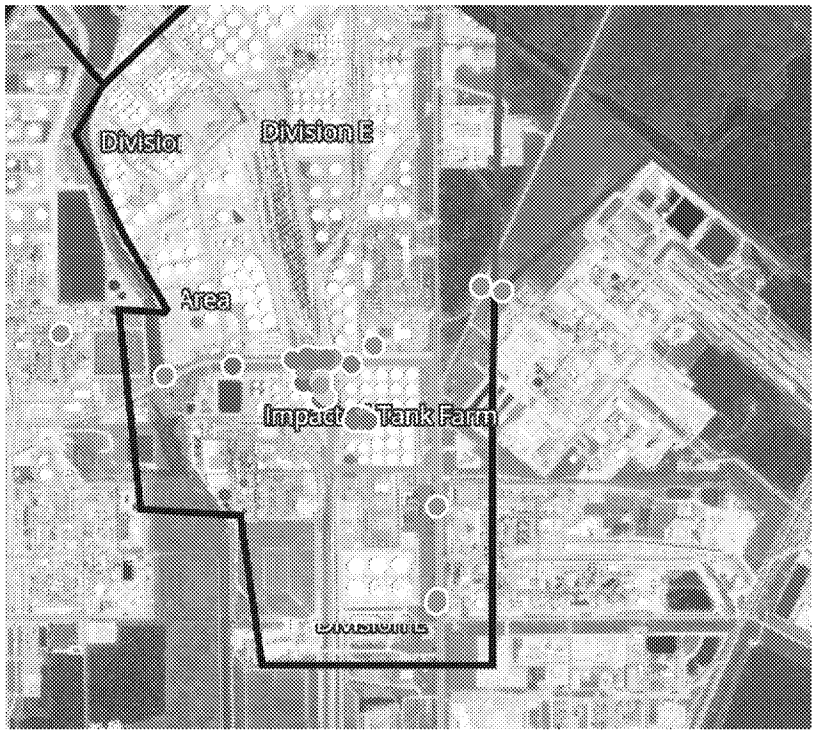
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 20:36:57	Impacted Tank Farm	29.7315480,-95.0922380	https://www.google.com/maps/search/?api=1&query=29.7315480,-95.0922380	1.420 ppm
4/12/2019 20:36:34	Impacted Tank Farm	29.7315860,-95.0923660	https://www.google.com/maps/search/?api=1&query=29.7315860,-95.0923660	1.690 ppm
4/12/2019 20:34:00	Impacted Tank Farm	29.7316560,-95.0920940	https://www.google.com/maps/search/?api=1&query=29.7316560,-95.0920940	2.470 ppm
4/12/2019 20:06:24	Division E	29.7329432,-95.0934775	https://www.google.com/maps/search/?api=1&query=29.7329432,-95.0934775	2.100 ppm
4/12/2019 20:04:40	Division E	29.7320910,-95.0932660	https://www.google.com/maps/search/?api=1&query=29.7320910,-95.0932660	1.735 ppm
4/12/2019 20:02:17	Division E	29.7527580,-95.0959320	https://www.google.com/maps/search/?api=1&query=29.7527580,-95.0959320	1.375 ppm
4/12/2019 20:00:56	Division E	29.7524420,-95.0933680	https://www.google.com/maps/search/?api=1&query=29.7524420,-95.0933680	2.650 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 9:00:00 PM to 4/12/2019 10:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 21:01:58	0.070 ppm
	4/12/2019 21:02:05	2.475 ppm
	4/12/2019 21:00:57	0.270 ppm
	4/12/2019 21:06:18	2.500 ppm
	4/12/2019 21:08:14	0.420 ppm
	4/12/2019 21:10:42	0.600 ppm
	4/12/2019 21:09:42	0.420 ppm
	4/12/2019 21:16:33	2.330 ppm
	4/12/2019 21:06:41	0.670 ppm
	4/12/2019 21:16:55	1.730 ppm
	4/12/2019 21:28:18	1.670 ppm
	4/12/2019 21:30:08	1.460 ppm
	4/12/2019 21:33:25	0.650 ppm
	4/12/2019 21:35:58	0.610 ppm
	4/12/2019 21:37:56	0.470 ppm
	4/12/2019 21:40:32	0.830 ppm
	4/12/2019 21:15:30	0.200 ppm
	4/12/2019 21:27:17	2.300 ppm
	4/12/2019 21:21:32	1.850 ppm
	4/12/2019 21:32:47	2.326 ppm
	4/12/2019 21:43:36	0.670 ppm
	4/12/2019 21:39:41	1.060 ppm
	4/12/2019 21:54:03	2.940 ppm
	4/12/2019 21:43:33	0.470 ppm
	4/12/2019 21:45:07	0.690 ppm
	4/12/2019 21:54:09	1.360 ppm
	4/12/2019 21:56:58	1.030 ppm
Impacted Tank Farm	4/12/2019 21:46:17	2.380 ppm
	4/12/2019 21:44:45	1.590 ppm
	4/12/2019 21:44:28	2.290 ppm
	4/12/2019 21:46:25	1.670 ppm
	4/12/2019 21:48:39	1.550 ppm
	4/12/2019 21:48:27	1.630 ppm
	4/12/2019 21:50:20	0.420 ppm
	4/12/2019 21:51:54	0.150 ppm

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Reading Date
4/12/2019 9:00:00 PM to 4/12/2019 10:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 21:56:58	Division E	29.7333010,-95.0935690	https://www.google.com/maps/search/?api=1&query=29.7333010,-95.0935690	1.030 ppm
4/12/2019 21:54:09	Division E	29.7332240,-95.0933850	https://www.google.com/maps/search/?api=1&query=29.7332240,-95.0933850	1.360 ppm
4/12/2019 21:54:03	Division E	29.7352420,-95.0936560	https://www.google.com/maps/search/?api=1&query=29.7352420,-95.0936560	2.940 ppm
4/12/2019 21:48:39	Impacted Tank Farm	29.7316190,-95.0921840	https://www.google.com/maps/search/?api=1&query=29.7316190,-95.0921840	1.550 ppm
4/12/2019 21:48:27	Impacted Tank Farm	29.7321590,-95.0929340	https://www.google.com/maps/search/?api=1&query=29.7321590,-95.0929340	1.630 ppm
4/12/2019 21:46:25	Impacted Tank Farm	29.7317320,-95.0921500	https://www.google.com/maps/search/?api=1&query=29.7317320,-95.0921500	1.670 ppm
4/12/2019 21:46:17	Impacted Tank Farm	29.7316330,-95.0924300	https://www.google.com/maps/search/?api=1&query=29.7316330,-95.0924300	2.390 ppm
4/12/2019 21:44:45	Impacted Tank Farm	29.7315220,-95.0923940	https://www.google.com/maps/search/?api=1&query=29.7315220,-95.0923940	1.590 ppm
4/12/2019 21:44:28	Impacted Tank Farm	29.7316170,-95.0919720	https://www.google.com/maps/search/?api=1&query=29.7316170,-95.0919720	2.299 ppm
4/12/2019 21:39:41	Division E	29.7325600,-95.0934330	https://www.google.com/maps/search/?api=1&query=29.7325600,-95.0934330	1.060 ppm
4/12/2019 21:32:47	Division E	29.7332220,-95.0937860	https://www.google.com/maps/search/?api=1&query=29.7332220,-95.0937860	2.326 ppm
4/12/2019 21:30:08	Division E	29.7331890,-95.0931710	https://www.google.com/maps/search/?api=1&query=29.7331890,-95.0931710	1.400 ppm
4/12/2019 21:28:18	Division E	29.7333020,-95.0930310	https://www.google.com/maps/search/?api=1&query=29.7333020,-95.0930310	1.470 ppm
4/12/2019 21:27:17	Division E	29.7352420,-95.0942780	https://www.google.com/maps/search/?api=1&query=29.7352420,-95.0942780	2.300 ppm
4/12/2019 21:21:32	Division E	29.7329400,-95.0939310	https://www.google.com/maps/search/?api=1&query=29.7329400,-95.0939310	1.850 ppm
4/12/2019 21:16:55	Division E	29.7332320,-95.0931790	https://www.google.com/maps/search/?api=1&query=29.7332320,-95.0931790	1.730 ppm
4/12/2019 21:16:33	Division E	29.7332950,-95.0932570	https://www.google.com/maps/search/?api=1&query=29.7332950,-95.0932570	2.330 ppm
4/12/2019 21:06:18	Division E	29.7331930,-95.0936650	https://www.google.com/maps/search/?api=1&query=29.7331930,-95.0936650	2.500 ppm
4/12/2019 21:02:05	Division E	29.7331290,-95.0924930	https://www.google.com/maps/search/?api=1&query=29.7331290,-95.0924930	2.475 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/13/2019 1:25:35 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 2000 Benzene Updated
Attachments: 20190412_2000_benzene_report.pdf; 20190412_1900_benzene_report.pdf

All,

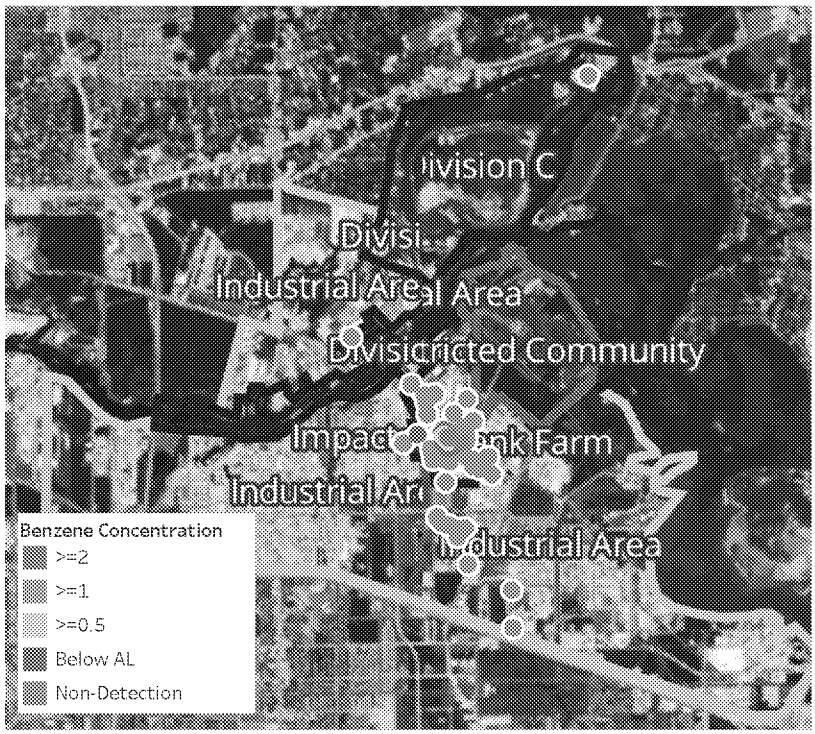
Attached are the benzene reports from 1800 – 2000.

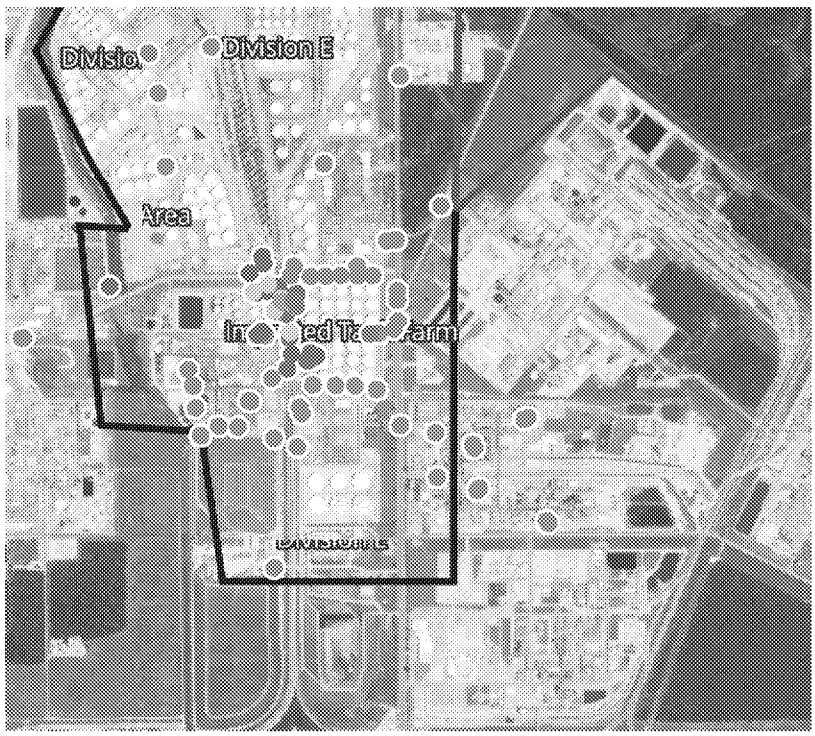
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 6:00:00 PM to 4/12/2019 7:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 18:01:09	0.500 ppm
	4/12/2019 18:02:27	0.040 ppm
	4/12/2019 18:03:36	0.230 ppm
	4/12/2019 18:05:00	0.390 ppm
	4/12/2019 18:10:19	1.410 ppm
	4/12/2019 18:14:28	0.960 ppm
	4/12/2019 18:16:21	0.250 ppm
	4/12/2019 18:20:46	0.350 ppm
	4/12/2019 18:25:04	0.270 ppm
	4/12/2019 18:31:07	0.370 ppm
	4/12/2019 18:30:28	0.730 ppm
	4/12/2019 18:43:01	0.070 ppm
	4/12/2019 18:47:26	0.080 ppm
	4/12/2019 18:43:18	0.110 ppm
	4/12/2019 18:50:09	0.920 ppm
	4/12/2019 18:51:29	0.380 ppm
	4/12/2019 18:57:22	0.060 ppm
	4/12/2019 18:56:37	0.700 ppm
Impacted Tank Farm	4/12/2019 18:07:47	3.575 ppm
	4/12/2019 18:14:02	0.230 ppm
	4/12/2019 18:14:41	2.325 ppm
	4/12/2019 18:29:44	0.120 ppm
	4/12/2019 18:22:08	2.900 ppm
	4/12/2019 18:40:09	0.080 ppm
	4/12/2019 18:47:57	0.925 ppm
	4/12/2019 18:51:39	0.125 ppm
	4/12/2019 18:53:37	0.070 ppm
	4/12/2019 18:57:10	0.225 ppm
Industrial Area	4/12/2019 18:16:47	0.190 ppm
Site Assessment	4/12/2019 18:40:55	0.130 ppm

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Reading Date
4/12/2019 6:00:00 PM to 4/12/2019 7:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

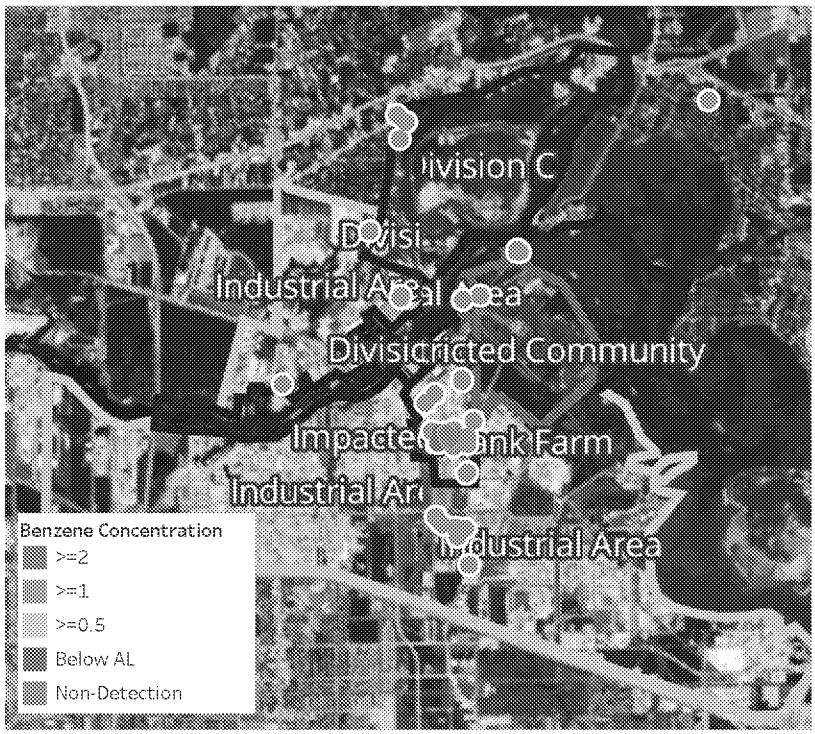
PRELIMINARY

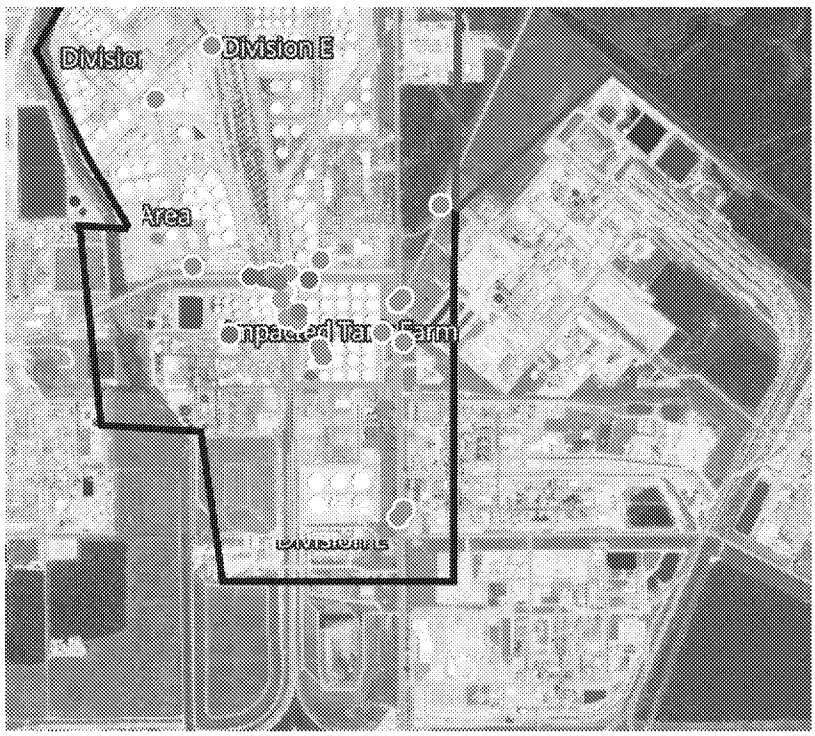
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 18:22:08	Impacted Tank Farm	29.7517000,-95.0907300	https://www.google.com/maps/search/?api=1&query=29.7517000,-95.0907300	2.900 ppm
4/12/2019 18:14:41	Impacted Tank Farm	29.7324340,-95.0929860	https://www.google.com/maps/search/?api=1&query=29.7324340,-95.0929860	2.325 ppm
4/12/2019 18:10:19	Division E	29.7325530,-95.0934290	https://www.google.com/maps/search/?api=1&query=29.7325530,-95.0934290	1.410 ppm
4/12/2019 18:07:47	Impacted Tank Farm	29.7325650,-95.0930760	https://www.google.com/maps/search/?api=1&query=29.7325650,-95.0930760	3.575 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 7:00:00 PM to 4/12/2019 8:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 19:00:32	0.300 ppm
	4/12/2019 19:00:57	1.270 ppm
	4/12/2019 19:03:42	0.940 ppm
	4/12/2019 19:10:27	0.530 ppm
	4/12/2019 19:14:12	0.230 ppm
	4/12/2019 19:15:09	0.080 ppm
	4/12/2019 19:16:10	0.250 ppm
	4/12/2019 19:36:52	0.175 ppm
	4/12/2019 19:42:40	4.650 ppm
	4/12/2019 19:53:04	1.375 ppm
	4/12/2019 19:50:40	0.545 ppm
	4/12/2019 19:49:00	1.450 ppm
	4/12/2019 19:58:31	1.725 ppm
Impacted Tank Farm	4/12/2019 19:20:16	3.400 ppm
	4/12/2019 19:29:04	1.800 ppm

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Reading Date
4/12/2019 7:00:00 PM to 4/12/2019 8:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 19:58:31	Division E	29.7526160,-95.0934580	https://www.google.com/maps/search/?api=1&query=29.7526160,-95.0934580	1.725 ppm
4/12/2019 19:53:04	Division E	29.7332700,-95.0937050	https://www.google.com/maps/search/?api=1&query=29.7332700,-95.0937050	1.375 ppm
4/12/2019 19:49:00	Division E	29.7253110,-95.0931940	https://www.google.com/maps/search/?api=1&query=29.7253110,-95.0931940	1.490 ppm
4/12/2019 19:42:40	Division E	29.7330770,-95.0935140	https://www.google.com/maps/search/?api=1&query=29.7330770,-95.0935140	4.650 ppm
4/12/2019 19:29:04	Impacted Tank Farm	29.7320400,-95.0929150	https://www.google.com/maps/search/?api=1&query=29.7320400,-95.0929150	1.800 ppm
4/12/2019 19:20:16	Impacted Tank Farm	29.7321770,-95.0929050	https://www.google.com/maps/search/?api=1&query=29.7321770,-95.0929050	3.400 ppm
4/12/2019 19:00:57	Division E	29.7321250,-95.0932870	https://www.google.com/maps/search/?api=1&query=29.7321250,-95.0932870	1.270 ppm

Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/12/2019 5:27:18 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Report
Attachments: 20190412_1200_benzene_report.pdf; 20190412_1100_benzene_report.pdf

All,

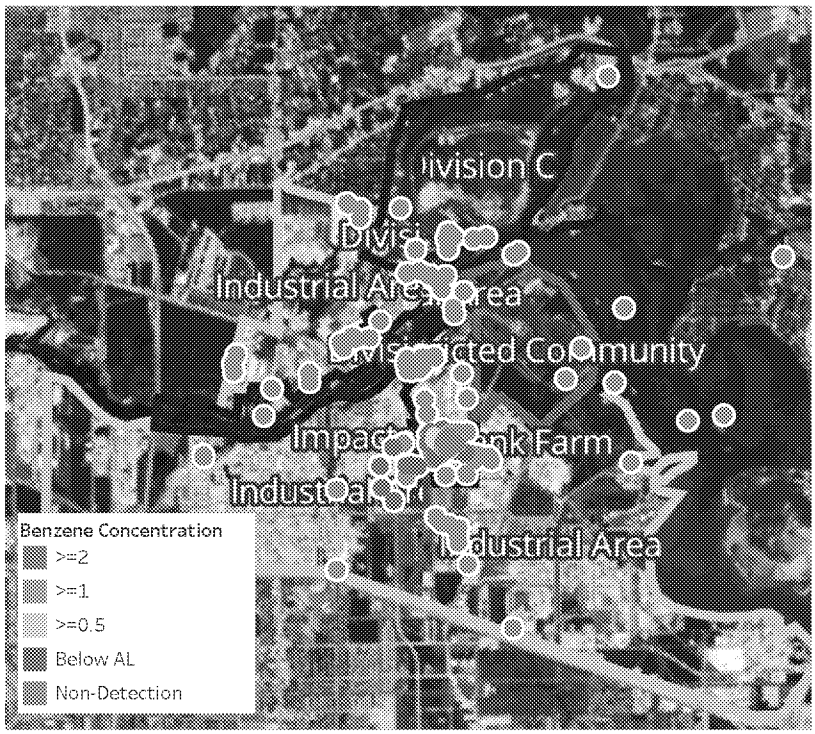
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

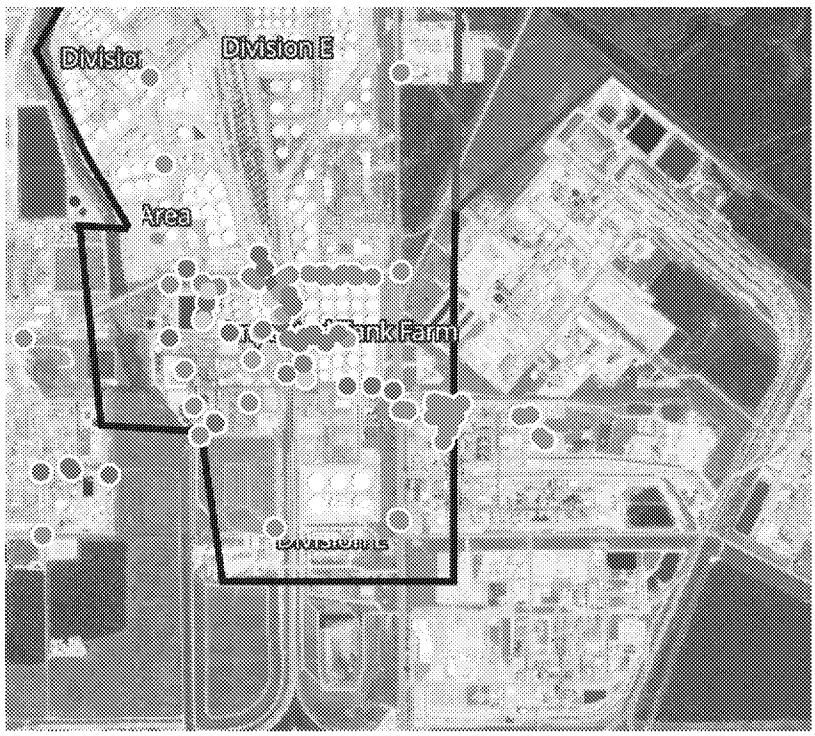
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 10:00:00 AM to 4/12/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 10:02:44	0.75 ppm
	4/12/2019 10:03:41	0.51 ppm
	4/12/2019 10:11:59	0.62 ppm
	4/12/2019 10:08:20	0.10 ppm
	4/12/2019 10:08:13	0.20 ppm
	4/12/2019 10:10:15	2.12 ppm
	4/12/2019 10:20:08	0.39 ppm
	4/12/2019 10:06:56	0.07 ppm
	4/12/2019 10:05:27	0.40 ppm
	4/12/2019 10:22:29	2.16 ppm
	4/12/2019 10:27:29	1.46 ppm
	4/12/2019 10:32:30	4.13 ppm
	4/12/2019 10:30:49	0.64 ppm
	4/12/2019 10:36:49	0.43 ppm
	4/12/2019 10:37:23	1.65 ppm
	4/12/2019 10:38:01	0.09 ppm
	4/12/2019 10:43:20	0.05 ppm
	4/12/2019 10:41:07	0.56 ppm
	4/12/2019 10:47:15	1.72 ppm
	4/12/2019 10:45:07	0.07 ppm
	4/12/2019 10:48:51	0.10 ppm
	4/12/2019 10:51:57	0.04 ppm
	4/12/2019 10:53:12	0.15 ppm
	4/12/2019 10:55:11	0.83 ppm
	4/12/2019 10:56:22	0.48 ppm
	4/12/2019 10:57:37	0.03 ppm
	4/12/2019 10:58:39	1.15 ppm
Impacted Tank Farm	4/12/2019 10:02:26	2.80 ppm
	4/12/2019 10:06:54	2.68 ppm
	4/12/2019 10:05:54	6.50 ppm
	4/12/2019 10:08:20	1.44 ppm
	4/12/2019 10:14:14	3.33 ppm
	4/12/2019 10:13:52	2.25 ppm
	4/12/2019 10:16:43	6.80 ppm
	4/12/2019 10:21:10	3.58 ppm
	4/12/2019 10:26:14	5.80 ppm
	4/12/2019 10:27:47	6.59 ppm
	4/12/2019 10:24:29	0.33 ppm
	4/12/2019 10:42:46	5.58 ppm
	4/12/2019 10:37:37	16.90 ppm
Industrial Area	4/12/2019 10:04:23	0.15 ppm
	4/12/2019 10:03:34	0.33 ppm
	4/12/2019 10:10:10	0.14 ppm
	4/12/2019 10:19:34	0.06 ppm
	4/12/2019 10:29:26	0.06 ppm
	4/12/2019 10:35:26	0.13 ppm
	4/12/2019 10:41:06	0.08 ppm
	4/12/2019 10:56:40	0.10 ppm

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Reading Date
4/12/2019 10:00:00 AM to 4/12/2019 11:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

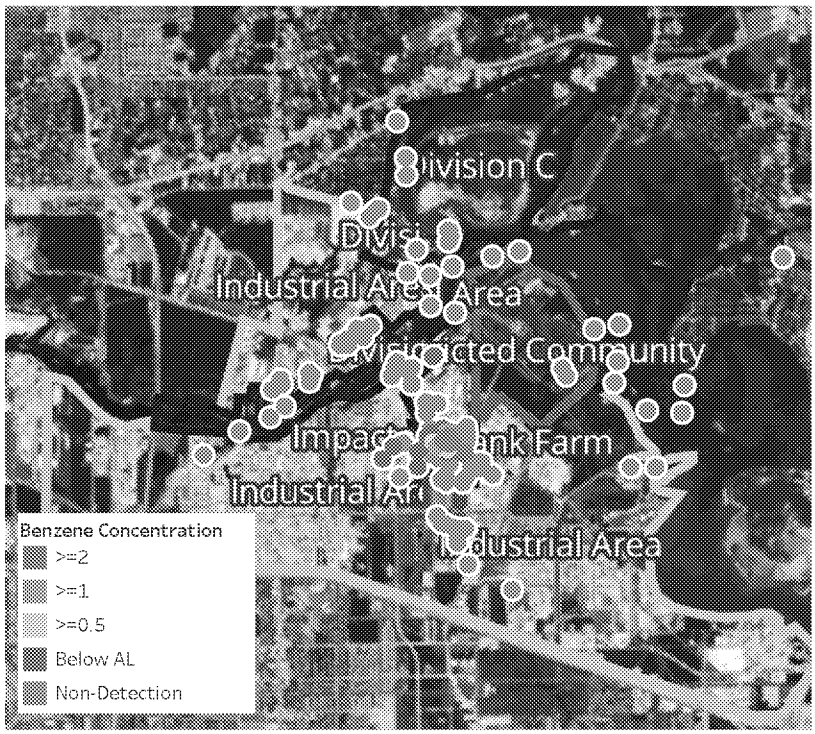
Recent Benzene Detections Greater than 1.00 ppm

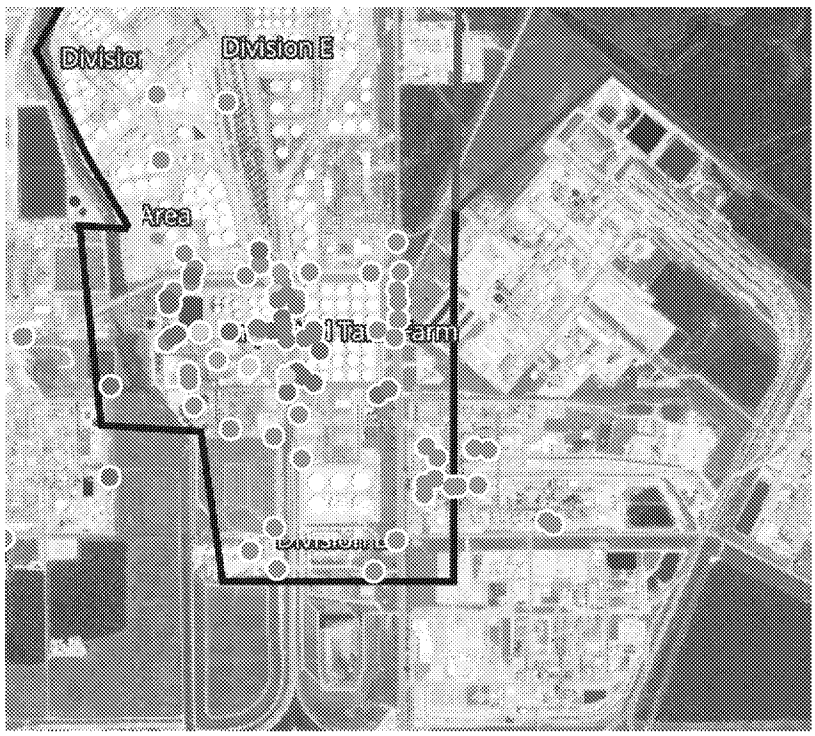
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 10:58:39	Division E	29.7510140,-95.0943250	https://www.google.com/maps/search/?api=1&query=29.7510140,-95.0943250	1.15 ppm
4/12/2019 10:47:15	Division E	29.7331790,-95.0933530	https://www.google.com/maps/search/?api=1&query=29.7331790,-95.0933530	1.72 ppm
4/12/2019 10:42:46	Impacted Tank Farm	29.7324000,-95.0931320	https://www.google.com/maps/search/?api=1&query=29.7324000,-95.0931320	5.58 ppm
4/12/2019 10:37:37	Impacted Tank Farm	29.7316970,-95.0924580	https://www.google.com/maps/search/?api=1&query=29.7316970,-95.0924580	10.90 ppm
4/12/2019 10:37:23	Division E	29.7327930,-95.0934730	https://www.google.com/maps/search/?api=1&query=29.7327930,-95.0934730	1.65 ppm
4/12/2019 10:32:30	Division E	29.7316100,-95.0940070	https://www.google.com/maps/search/?api=1&query=29.7316100,-95.0940070	4.13 ppm
4/12/2019 10:27:47	Impacted Tank Farm	29.7314660,-95.0920680	https://www.google.com/maps/search/?api=1&query=29.7314660,-95.0920680	6.69 ppm
4/12/2019 10:27:29	Division E	29.7322090,-95.0933760	https://www.google.com/maps/search/?api=1&query=29.7322090,-95.0933760	1.46 ppm
4/12/2019 10:26:14	Impacted Tank Farm	29.7316310,-95.0927230	https://www.google.com/maps/search/?api=1&query=29.7316310,-95.0927230	5.80 ppm
4/12/2019 10:22:29	Division E	29.7315650,-95.0932390	https://www.google.com/maps/search/?api=1&query=29.7315650,-95.0932390	2.16 ppm
4/12/2019 10:21:10	Impacted Tank Farm	29.7316280,-95.0924653	https://www.google.com/maps/search/?api=1&query=29.7316280,-95.0924653	3.58 ppm
4/12/2019 10:16:43	Impacted Tank Farm	29.7317100,-95.0916970	https://www.google.com/maps/search/?api=1&query=29.7317100,-95.0916970	6.80 ppm
4/12/2019 10:14:14	Impacted Tank Farm	29.7314400,-95.0926850	https://www.google.com/maps/search/?api=1&query=29.7314400,-95.0926850	5.38 ppm
4/12/2019 10:13:52	Impacted Tank Farm	29.7327560,-95.0932090	https://www.google.com/maps/search/?api=1&query=29.7327560,-95.0932090	2.25 ppm
4/12/2019 10:10:15	Division E	29.7306440,-95.0932760	https://www.google.com/maps/search/?api=1&query=29.7306440,-95.0932760	2.12 ppm
4/12/2019 10:08:20	Impacted Tank Farm	29.7315630,-95.0914300	https://www.google.com/maps/search/?api=1&query=29.7315630,-95.0914300	1.44 ppm
4/12/2019 10:06:54	Impacted Tank Farm	29.7309040,-95.0927650	https://www.google.com/maps/search/?api=1&query=29.7309040,-95.0927650	2.68 ppm
4/12/2019 10:05:54	Impacted Tank Farm	29.7309080,-95.0927710	https://www.google.com/maps/search/?api=1&query=29.7309080,-95.0927710	6.50 ppm
4/12/2019 10:02:26	Impacted Tank Farm	29.7324760,-95.0930570	https://www.google.com/maps/search/?api=1&query=29.7324760,-95.0930570	2.80 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 11:00:00 AM to 4/12/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/12/2019 11:17:47	0.33 ppm
Division E	4/12/2019 11:03:43	0.73 ppm
	4/12/2019 11:04:44	0.11 ppm
	4/12/2019 11:01:35	0.08 ppm
	4/12/2019 11:07:34	0.26 ppm
	4/12/2019 11:12:02	0.17 ppm
	4/12/2019 11:14:08	0.04 ppm
	4/12/2019 11:22:12	0.54 ppm
	4/12/2019 11:27:13	0.05 ppm
	4/12/2019 11:27:31	2.30 ppm
	4/12/2019 11:31:23	0.43 ppm
	4/12/2019 11:35:15	0.36 ppm
	4/12/2019 11:17:32	0.93 ppm
	4/12/2019 11:23:34	1.26 ppm
	4/12/2019 11:39:52	0.69 ppm
	4/12/2019 11:37:47	0.56 ppm
	4/12/2019 11:44:28	2.72 ppm
	4/12/2019 11:45:44	3.44 ppm
	4/12/2019 11:31:17	0.08 ppm
	4/12/2019 11:45:43	4.57 ppm
	4/12/2019 11:52:29	0.06 ppm
	4/12/2019 11:51:59	1.51 ppm
	4/12/2019 11:53:37	0.28 ppm
	4/12/2019 11:56:24	0.03 ppm
	4/12/2019 11:44:52	0.19 ppm
	4/12/2019 11:46:53	0.39 ppm
	4/12/2019 11:56:35	0.34 ppm
Impacted Tank Farm	4/12/2019 11:14:32	2.00 ppm
	4/12/2019 11:18:10	0.28 ppm
	4/12/2019 11:21:56	5.44 ppm
	4/12/2019 11:27:39	2.45 ppm
	4/12/2019 11:31:02	9.35 ppm
	4/12/2019 11:35:13	6.52 ppm
	4/12/2019 11:38:30	1.48 ppm
	4/12/2019 11:38:36	22.52 ppm
	4/12/2019 11:50:10	4.63 ppm
	4/12/2019 11:51:18	0.15 ppm
Industrial Area	4/12/2019 11:07:09	0.13 ppm
	4/12/2019 11:15:12	0.15 ppm
	4/12/2019 11:30:43	0.03 ppm
	4/12/2019 11:38:17	0.45 ppm

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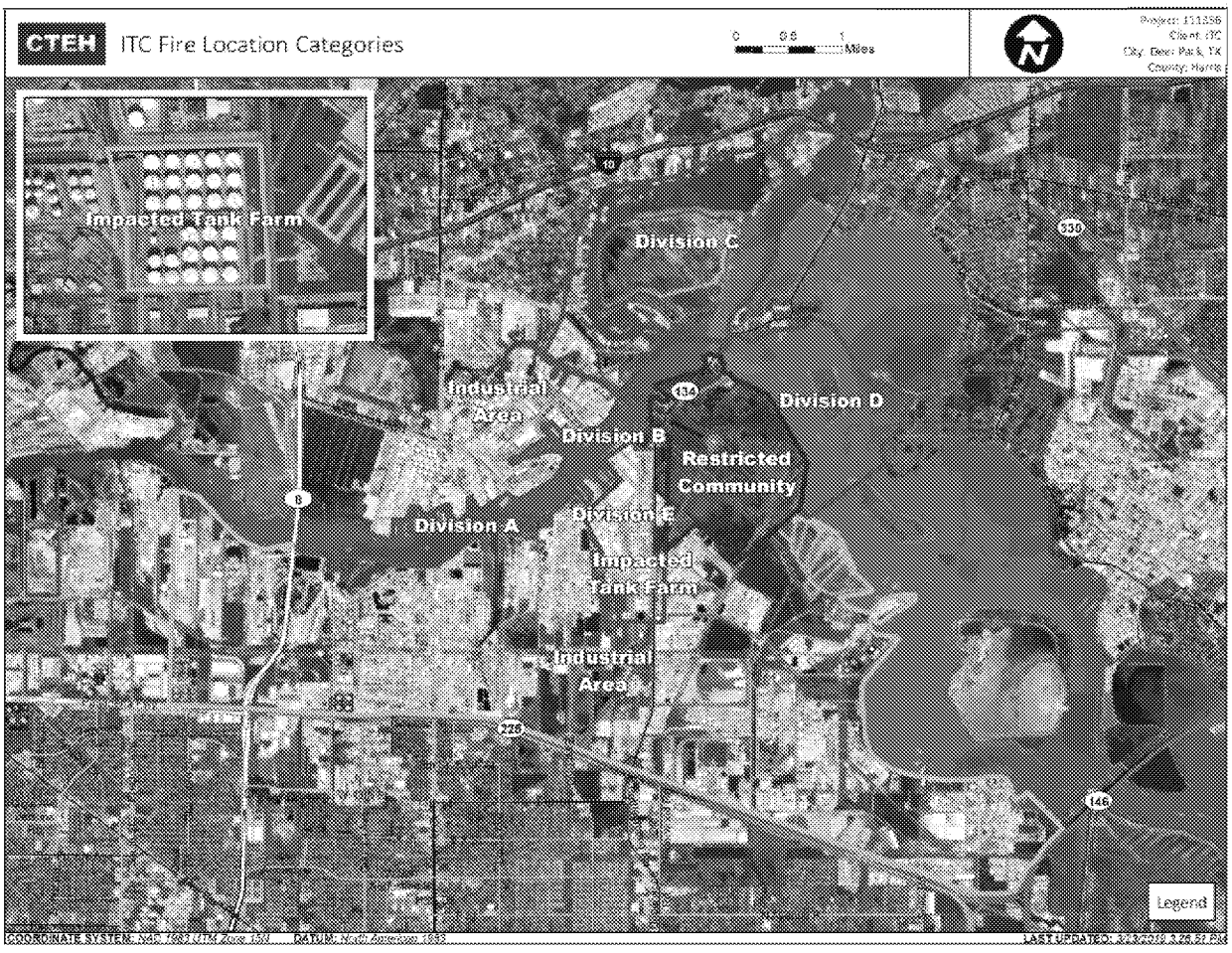
Reading Date
4/12/2019 11:00:00 AM to 4/12/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 11:51:59	Division E	29.7333300,-95.0934640	https://www.google.com/maps/search/?api=1&query=29.7333300,-95.0934640	1.93 ppm
4/12/2019 11:50:10	Impacted Tank Farm	29.7327340,-95.0932460	https://www.google.com/maps/search/?api=1&query=29.7327340,-95.0932460	4.63 ppm
4/12/2019 11:45:44	Division E	29.7319620,-95.0941920	https://www.google.com/maps/search/?api=1&query=29.7319620,-95.0941920	3.44 ppm
4/12/2019 11:45:43	Division E	29.7318930,-95.0933690	https://www.google.com/maps/search/?api=1&query=29.7318930,-95.0933690	4.57 ppm
4/12/2019 11:44:28	Division E	29.7318170,-95.0940740	https://www.google.com/maps/search/?api=1&query=29.7318170,-95.0940740	2.72 ppm
4/12/2019 11:38:36	Impacted Tank Farm	29.7502410,-95.0901630	https://www.google.com/maps/search/?api=1&query=29.7502410,-95.0901630	22.52 ppm
4/12/2019 11:38:30	Impacted Tank Farm	29.7526430,-95.0929660	https://www.google.com/maps/search/?api=1&query=29.7526430,-95.0929660	1.48 ppm
4/12/2019 11:35:13	Impacted Tank Farm	29.7315789,-95.0927269	https://www.google.com/maps/search/?api=1&query=29.7315789,-95.0927269	6.52 ppm
4/12/2019 11:31:02	Impacted Tank Farm	29.7319050,-95.0924470	https://www.google.com/maps/search/?api=1&query=29.7319050,-95.0924470	9.36 ppm
4/12/2019 11:27:39	Impacted Tank Farm	29.7324430,-95.0929630	https://www.google.com/maps/search/?api=1&query=29.7324430,-95.0929630	2.45 ppm
4/12/2019 11:27:31	Division E	29.7515480,-95.0932830	https://www.google.com/maps/search/?api=1&query=29.7515480,-95.0932830	2.39 ppm
4/12/2019 11:23:34	Division E	29.7510070,-95.0953890	https://www.google.com/maps/search/?api=1&query=29.7510070,-95.0953890	1.25 ppm
4/12/2019 11:21:56	Impacted Tank Farm	29.7317620,-95.0924760	https://www.google.com/maps/search/?api=1&query=29.7317620,-95.0924760	5.44 ppm
4/12/2019 11:14:32	Impacted Tank Farm	29.7325970,-95.0935250	https://www.google.com/maps/search/?api=1&query=29.7325970,-95.0935250	2.00 ppm



Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/11/2019 5:40:46 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; Travis Sartain [tsartain@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Report
Attachments: 20190411_1100_benzene_report.pdf; 20190411_1200_benzene_report.pdf

All,

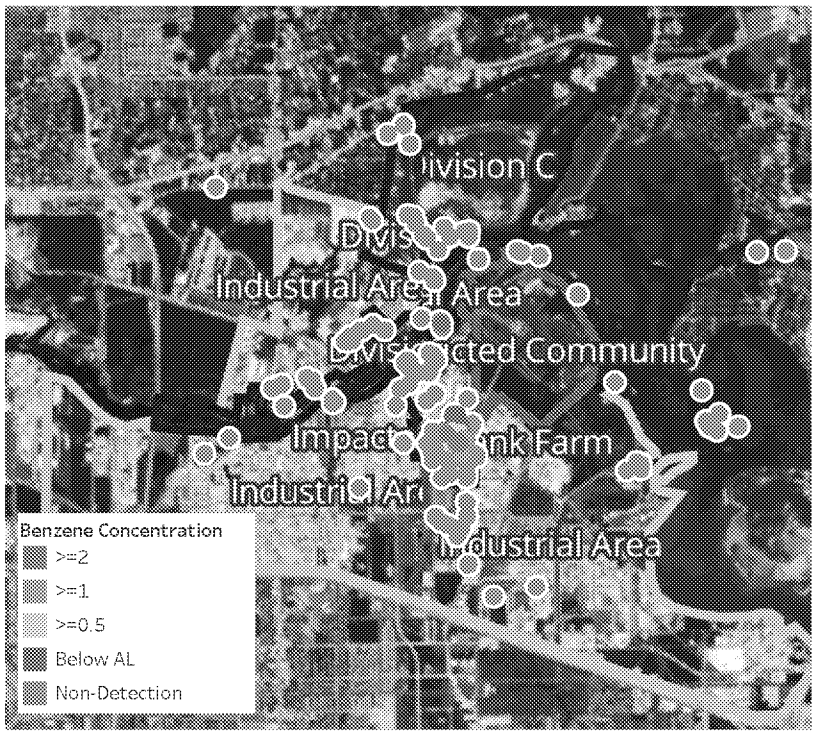
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

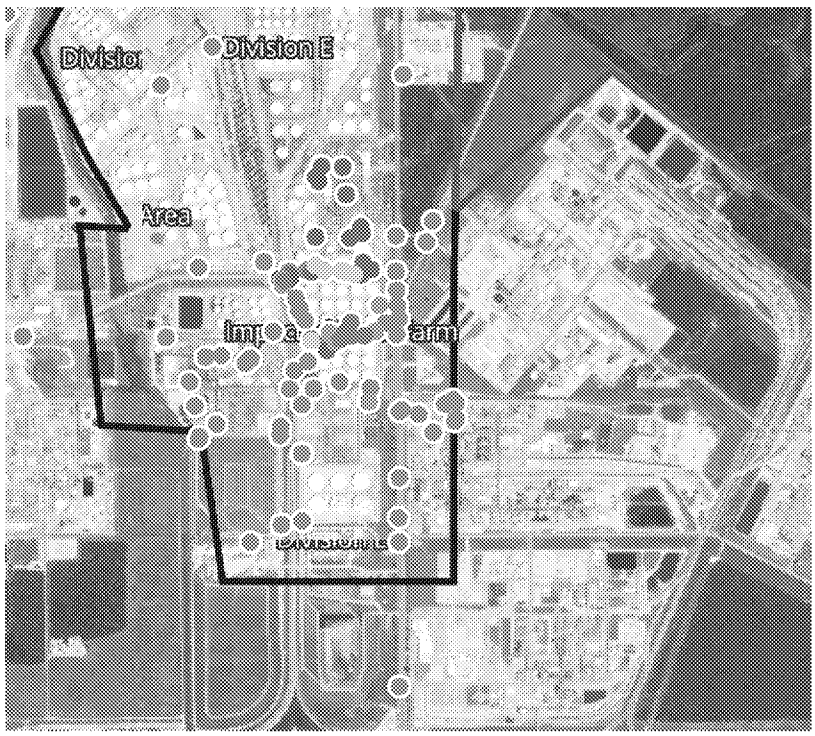
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 10:00:00 AM to 4/11/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/11/2019 10:26:41	0.05 ppm
Division E	4/11/2019 10:00:39	0.14 ppm
	4/11/2019 10:03:09	0.59 ppm
	4/11/2019 10:04:23	2.45 ppm
	4/11/2019 10:04:53	0.16 ppm
	4/11/2019 10:09:05	1.50 ppm
	4/11/2019 10:12:00	0.33 ppm
	4/11/2019 10:19:28	0.15 ppm
	4/11/2019 10:22:39	1.65 ppm
	4/11/2019 10:25:33	0.44 ppm
	4/11/2019 10:25:39	0.18 ppm
	4/11/2019 10:32:34	0.04 ppm
	4/11/2019 10:30:20	0.49 ppm
	4/11/2019 10:33:32	0.53 ppm
	4/11/2019 10:33:04	0.28 ppm
	4/11/2019 10:33:35	0.36 ppm
	4/11/2019 10:39:26	0.35 ppm
	4/11/2019 10:38:12	0.18 ppm
	4/11/2019 10:43:21	0.64 ppm
	4/11/2019 10:44:38	0.03 ppm
	4/11/2019 10:46:34	0.59 ppm
	4/11/2019 10:48:19	0.14 ppm
	4/11/2019 10:50:19	0.28 ppm
	4/11/2019 10:54:09	0.03 ppm
Impacted Tank Farm	4/11/2019 10:07:39	0.45 ppm
	4/11/2019 10:06:40	1.15 ppm
	4/11/2019 10:10:16	0.04 ppm
	4/11/2019 10:14:26	3.13 ppm
	4/11/2019 10:22:08	1.15 ppm
	4/11/2019 10:29:49	1.54 ppm
	4/11/2019 10:33:55	0.61 ppm
	4/11/2019 10:36:10	2.22 ppm
	4/11/2019 10:39:09	0.52 ppm
	4/11/2019 10:45:46	0.15 ppm
	4/11/2019 10:44:00	1.50 ppm
	4/11/2019 10:46:43	1.25 ppm
	4/11/2019 10:17:07	0.50 ppm
	4/11/2019 10:34:28	4.56 ppm
	4/11/2019 10:57:41	3.90 ppm
Site Assessment	4/11/2019 10:55:50	11.30 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 10:00:00 AM to 4/11/2019 11:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

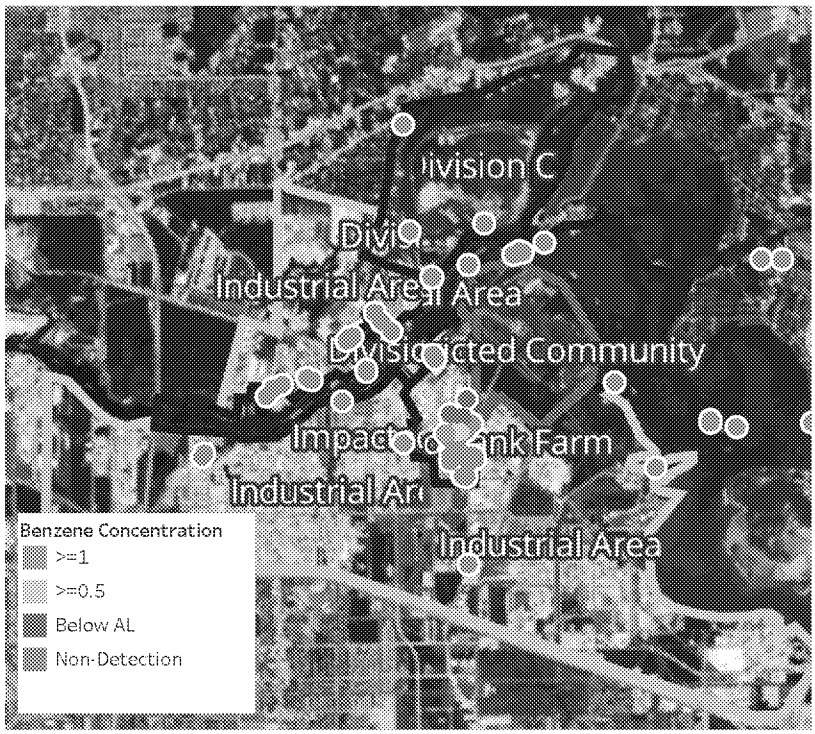
Recent Benzene Detections Greater than 1.00 ppm

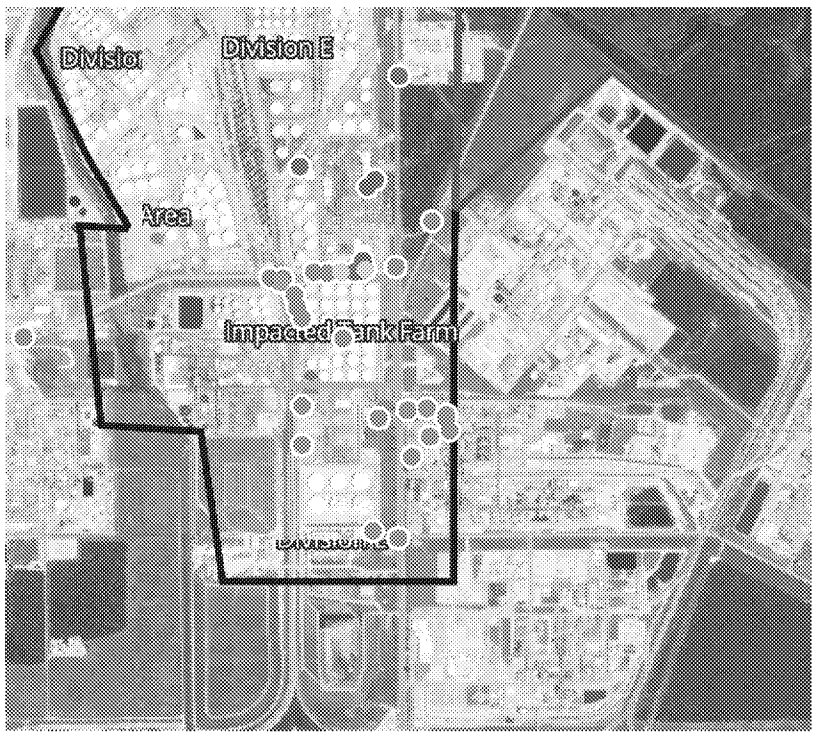
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 10:57:41	Impacted Tank Farm	29.7516480,-95.0908990	https://www.google.com/maps/search/?api=1&query=29.7516480,-95.0908990	3.90 ppm
4/11/2019 10:55:50	Site Assessment	29.7316440,-95.0913220	https://www.google.com/maps/search/?api=1&query=29.7316440,-95.0913220	11.30 ppm
4/11/2019 10:46:43	Impacted Tank Farm	29.7324580,-95.0904390	https://www.google.com/maps/search/?api=1&query=29.7324580,-95.0904390	1.26 ppm
4/11/2019 10:44:00	Impacted Tank Farm	29.7209030,-95.0907760	https://www.google.com/maps/search/?api=1&query=29.7209030,-95.0907760	1.50 ppm
4/11/2019 10:36:10	Impacted Tank Farm	29.7315640,-95.0916350	https://www.google.com/maps/search/?api=1&query=29.7315640,-95.0916350	2.22 ppm
4/11/2019 10:34:28	Impacted Tank Farm	29.7520920,-95.0913210	https://www.google.com/maps/search/?api=1&query=29.7520920,-95.0913210	4.56 ppm
4/11/2019 10:29:49	Impacted Tank Farm	29.7514770,-95.0917950	https://www.google.com/maps/search/?api=1&query=29.7514770,-95.0917950	1.64 ppm
4/11/2019 10:22:39	Division E	29.7329930,-95.0934040	https://www.google.com/maps/search/?api=1&query=29.7329930,-95.0934040	1.65 ppm
4/11/2019 10:22:08	Impacted Tank Farm	29.7317709,-95.0905736	https://www.google.com/maps/search/?api=1&query=29.7317709,-95.0905736	1.16 ppm
4/11/2019 10:14:26	Impacted Tank Farm	29.7317382,-95.0915051	https://www.google.com/maps/search/?api=1&query=29.7317382,-95.0915051	3.13 ppm
4/11/2019 10:09:05	Division E	29.7321690,-95.0934070	https://www.google.com/maps/search/?api=1&query=29.7321690,-95.0934070	1.50 ppm
4/11/2019 10:06:40	Impacted Tank Farm	29.7317329,-95.0919620	https://www.google.com/maps/search/?api=1&query=29.7317329,-95.0919620	1.15 ppm
4/11/2019 10:04:23	Division E	29.7330910,-95.0933560	https://www.google.com/maps/search/?api=1&query=29.7330910,-95.0933560	2.45 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 11:00:00 AM to 4/11/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 11:00:08	0.425 ppm
	4/11/2019 11:02:50	0.860 ppm
	4/11/2019 11:01:04	0.350 ppm
	4/11/2019 11:06:29	0.325 ppm
	4/11/2019 11:07:27	0.125 ppm
	4/11/2019 11:12:28	1.125 ppm
	4/11/2019 11:16:28	0.270 ppm
	4/11/2019 11:22:44	0.100 ppm
	4/11/2019 11:23:46	0.130 ppm
	4/11/2019 11:24:32	0.080 ppm
Impacted Tank Farm	4/11/2019 11:06:29	0.700 ppm
	4/11/2019 11:12:59	0.330 ppm

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Reading Date
4/11/2019 11:00:00 AM to 4/11/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 11:12:28	Division E	29.7530930,-95.0934370	https://www.google.com/maps/search/?api=1&query=29.7530930,-95.0934370	1.125 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jacob Bird [jbird@cteh.com]
Sent: 4/12/2019 11:21:17 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Report
Attachments: 20190412_1800_Benzene_Report.pdf; 20190412_1700_Benzene_Report.pdf

All,

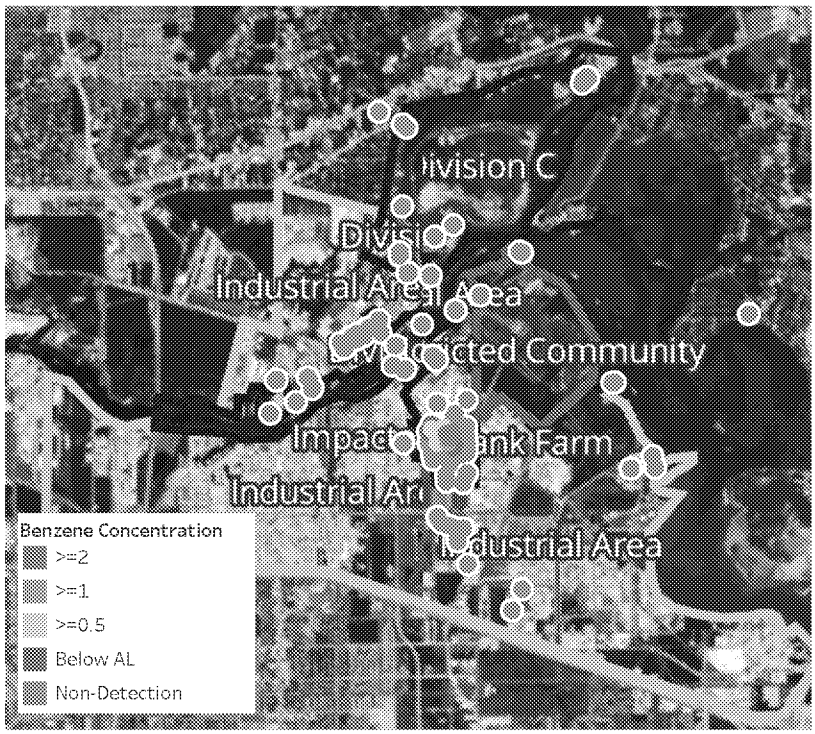
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

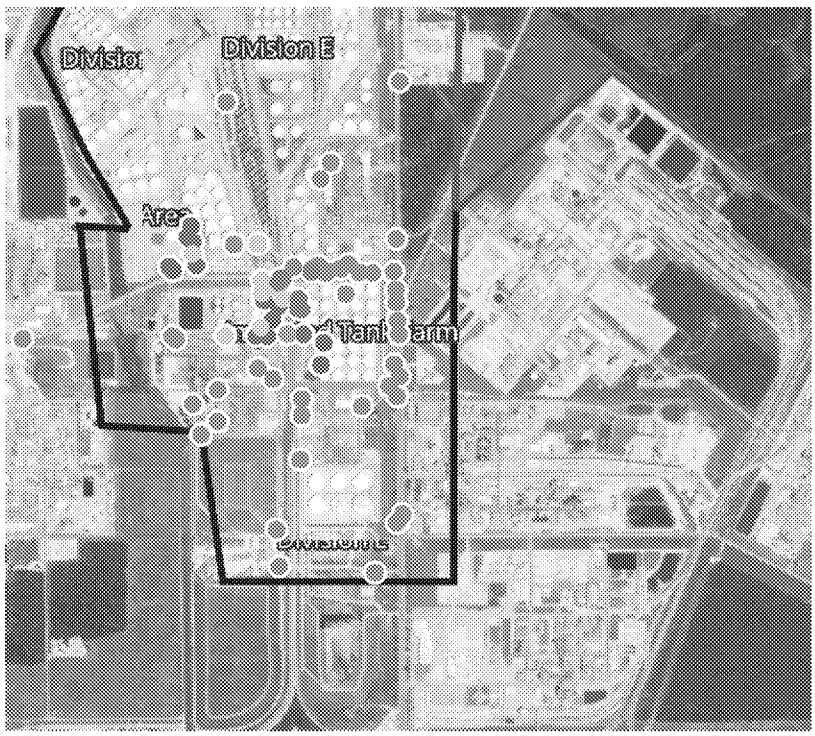
Sincerely,

Jacob Bird, BS
Director, Logistics & Operations Support
CTEH, LLC
Office: 501-801-8628 | Mobile: 501-366-3074
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jbird@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 4:00:00 PM to 4/12/2019 5:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 16:07:25	1.010 ppm
	4/12/2019 16:11:02	0.120 ppm
	4/12/2019 16:19:12	0.260 ppm
	4/12/2019 16:08:42	0.930 ppm
	4/12/2019 16:15:23	3.670 ppm
	4/12/2019 16:25:47	0.220 ppm
	4/12/2019 16:19:25	0.425 ppm
	4/12/2019 16:24:52	0.760 ppm
	4/12/2019 16:34:24	3.170 ppm
	4/12/2019 16:35:58	0.470 ppm
	4/12/2019 16:34:50	0.540 ppm
	4/12/2019 16:40:47	0.560 ppm
	4/12/2019 16:50:19	2.600 ppm
	4/12/2019 16:15:12	0.160 ppm
	4/12/2019 16:25:17	0.310 ppm
	4/12/2019 16:32:13	0.100 ppm
	4/12/2019 16:30:35	0.220 ppm
	4/12/2019 16:27:47	0.400 ppm
	4/12/2019 16:35:21	0.080 ppm
	4/12/2019 16:36:21	0.180 ppm
	4/12/2019 16:18:20	0.860 ppm
	4/12/2019 16:16:48	0.950 ppm
	4/12/2019 16:26:44	0.740 ppm
	4/12/2019 16:59:53	0.670 ppm
	4/12/2019 16:59:05	0.590 ppm
Impacted Tank Farm	4/12/2019 16:08:03	3.325 ppm
	4/12/2019 16:19:17	3.200 ppm
	4/12/2019 16:26:28	0.080 ppm
	4/12/2019 16:31:03	0.100 ppm
	4/12/2019 16:36:17	0.080 ppm
	4/12/2019 16:43:41	2.325 ppm
	4/12/2019 16:52:19	0.950 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 4:00:00 PM to 4/12/2019 5:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

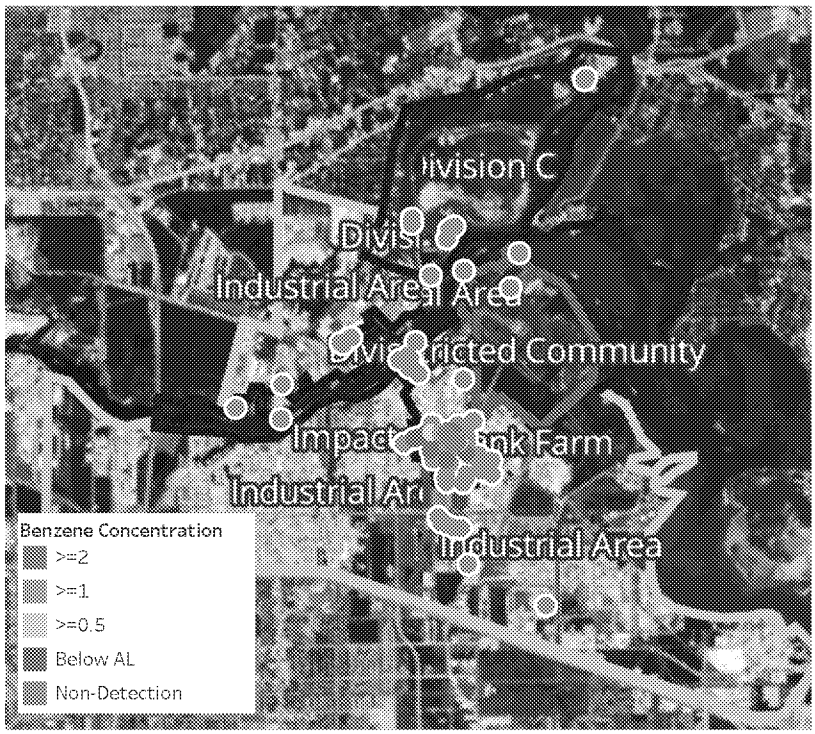
Recent Benzene Detections Greater than 1.00 ppm

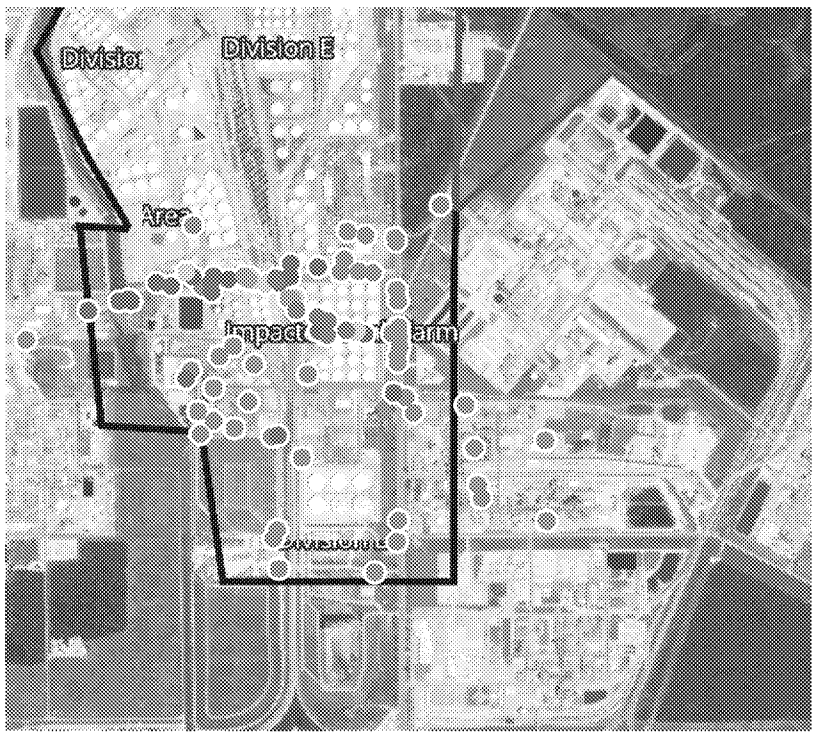
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 16:50:19	Division E	29.7321370,-95.0934030	https://www.google.com/maps/search/?api=1&query=29.7321370,-95.0934030	2.600 ppm
4/12/2019 16:43:41	Impacted Tank Farm	29.7323490,-95.0926160	https://www.google.com/maps/search/?api=1&query=29.7323490,-95.0926160	2.325 ppm
4/12/2019 16:34:24	Division E	29.7350590,-95.0935350	https://www.google.com/maps/search/?api=1&query=29.7350590,-95.0935350	3.170 ppm
4/12/2019 16:19:17	Impacted Tank Farm	29.732610,-95.0929050	https://www.google.com/maps/search/?api=1&query=29.732610,-95.0929050	3.200 ppm
4/12/2019 16:15:23	Division E	29.7333440,-95.0925230	https://www.google.com/maps/search/?api=1&query=29.7333440,-95.0925230	3.670 ppm
4/12/2019 16:08:03	Impacted Tank Farm	29.7325810,-95.0929360	https://www.google.com/maps/search/?api=1&query=29.7325810,-95.0929360	3.325 ppm
4/12/2019 16:07:25	Division E	29.7316940,-95.0932550	https://www.google.com/maps/search/?api=1&query=29.7316940,-95.0932550	1.010 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 5:00:00 PM to 4/12/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 17:00:39	0.670 ppm
	4/12/2019 17:02:04	0.040 ppm
	4/12/2019 17:07:20	1.240 ppm
	4/12/2019 17:13:08	0.410 ppm
	4/12/2019 17:17:38	0.200 ppm
	4/12/2019 17:24:02	0.420 ppm
	4/12/2019 17:21:02	0.200 ppm
	4/12/2019 17:18:32	0.025 ppm
	4/12/2019 17:33:56	0.830 ppm
	4/12/2019 17:35:16	0.440 ppm
	4/12/2019 17:39:24	0.100 ppm
	4/12/2019 17:39:54	0.025 ppm
	4/12/2019 17:40:29	5.000 ppm
	4/12/2019 17:19:50	1.200 ppm
	4/12/2019 17:17:50	0.100 ppm
	4/12/2019 17:47:26	0.070 ppm
	4/12/2019 17:52:46	0.120 ppm
	4/12/2019 17:59:37	0.930 ppm
	4/12/2019 17:48:36	0.250 ppm
	4/12/2019 17:50:55	0.130 ppm
	4/12/2019 17:18:46	0.280 ppm
	4/12/2019 17:44:48	0.240 ppm
	4/12/2019 17:56:05	0.600 ppm
	4/12/2019 17:46:02	0.200 ppm
	4/12/2019 17:54:42	0.790 ppm
	4/12/2019 17:57:54	0.470 ppm
Impacted Tank Farm	4/12/2019 17:02:14	0.760 ppm
	4/12/2019 17:02:30	4.870 ppm
	4/12/2019 17:13:24	1.825 ppm
	4/12/2019 17:10:37	3.970 ppm
	4/12/2019 17:21:30	0.100 ppm
	4/12/2019 17:25:39	0.070 ppm
	4/12/2019 17:26:09	0.290 ppm
	4/12/2019 17:20:29	2.580 ppm
	4/12/2019 17:30:04	0.980 ppm
	4/12/2019 17:30:22	0.570 ppm
	4/12/2019 17:39:07	3.610 ppm
	4/12/2019 17:40:20	3.400 ppm
	4/12/2019 17:46:20	1.150 ppm
Site Assessment	4/12/2019 17:49:50	0.200 ppm
	4/12/2019 17:44:14	0.450 ppm

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Reading Date
4/12/2019 5:00:00 PM to 4/12/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 17:46:20	Impacted Tank Farm	29.7526320,-95.0931100	https://www.google.com/maps/search/?api=1&query=29.7526320,-95.0931100	1.150 ppm
4/12/2019 17:40:29	Division E	29.7331140,-95.0936120	https://www.google.com/maps/search/?api=1&query=29.7331140,-95.0936120	5.000 ppm
4/12/2019 17:40:20	Impacted Tank Farm	29.7322530,-95.0929840	https://www.google.com/maps/search/?api=1&query=29.7322530,-95.0929840	3.400 ppm
4/12/2019 17:39:07	Impacted Tank Farm	29.7317940,-95.0914640	https://www.google.com/maps/search/?api=1&query=29.7317940,-95.0914640	3.610 ppm
4/12/2019 17:20:29	Impacted Tank Farm	29.7321430,-95.0923340	https://www.google.com/maps/search/?api=1&query=29.7321430,-95.0923340	2.580 ppm
4/12/2019 17:19:50	Division E	29.7532220,-95.0945800	https://www.google.com/maps/search/?api=1&query=29.7532220,-95.0945800	1.290 ppm
4/12/2019 17:13:24	Impacted Tank Farm	29.7526390,-95.0932180	https://www.google.com/maps/search/?api=1&query=29.7526390,-95.0932180	1.825 ppm
4/12/2019 17:10:37	Impacted Tank Farm	29.7316620,-95.0920460	https://www.google.com/maps/search/?api=1&query=29.7316620,-95.0920460	3.970 ppm
4/12/2019 17:07:20	Division E	29.7351390,-95.0944550	https://www.google.com/maps/search/?api=1&query=29.7351390,-95.0944550	1.240 ppm
4/12/2019 17:02:30	Impacted Tank Farm	29.7320370,-95.0920240	https://www.google.com/maps/search/?api=1&query=29.7320370,-95.0920240	4.870 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/18/2019 7:12:50 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0200 Benzene Update
Attachments: 20190418_0200_benzene_report.pdf; 20190418_0100_benzene_report.pdf

All,

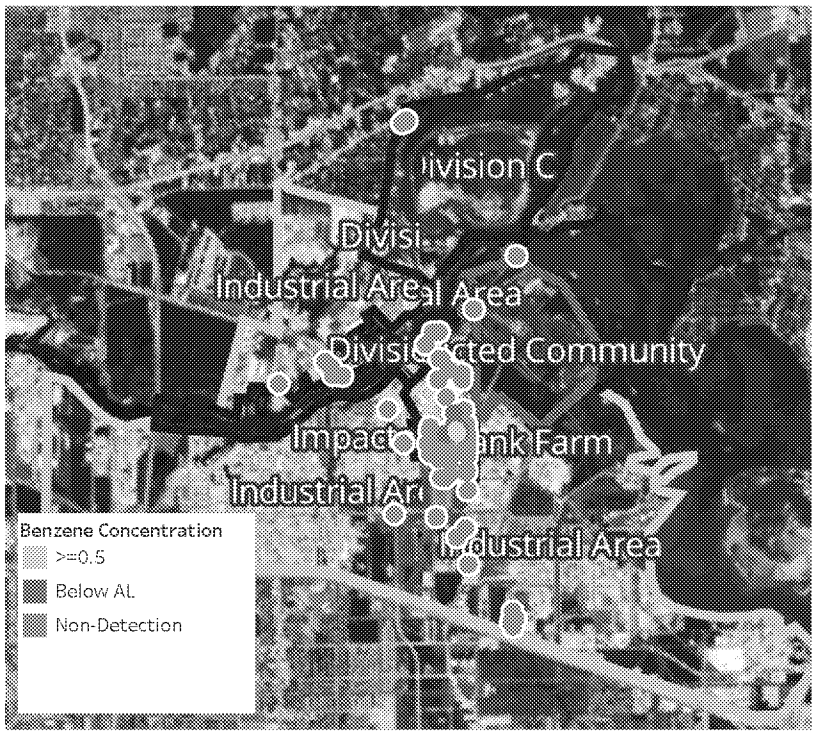
Attached are the benzene reports from 0000 – 0200.

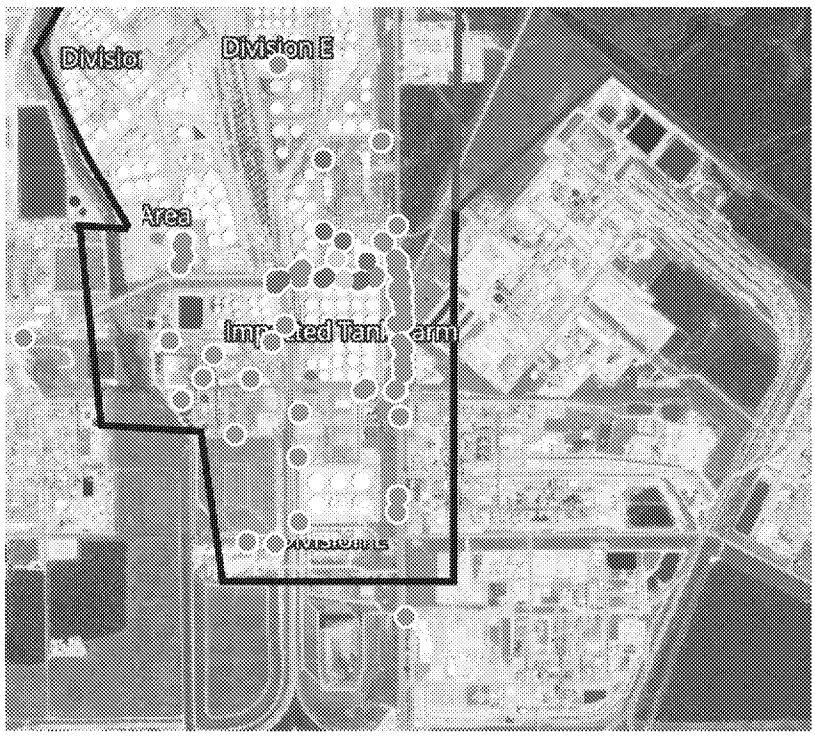
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 12:00:00 AM to 4/18/2019 1:00:00 AM





Recent Benzene Detections

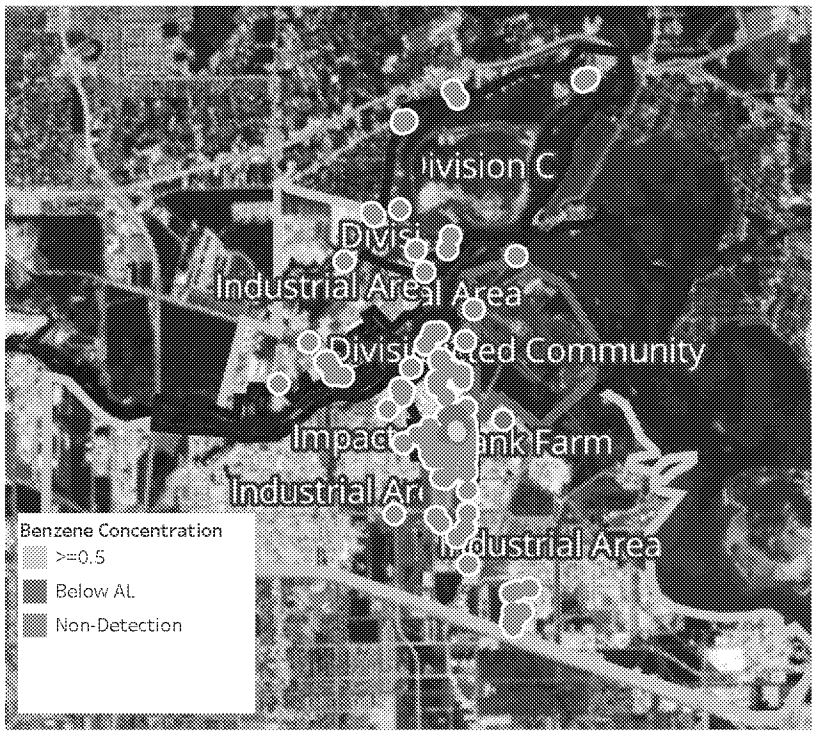
Location Category	Reading Date	Concentration
Division E	4/18/2019 00:02:04	0.3100 ppm
	4/18/2019 00:46:57	0.1300 ppm
	4/18/2019 00:45:55	0.9200 ppm
	4/18/2019 00:43:18	0.0900 ppm
	4/18/2019 00:49:15	0.0500 ppm
	4/18/2019 00:37:04	0.1100 ppm
	4/18/2019 00:52:10	0.0200 ppm
	4/18/2019 00:52:32	0.7800 ppm
	4/18/2019 00:56:32	0.3600 ppm
	4/18/2019 00:47:50	0.2000 ppm
	4/18/2019 00:53:02	0.4500 ppm
	4/18/2019 00:57:20	0.3100 ppm
	4/18/2019 00:05:59	0.0400 ppm

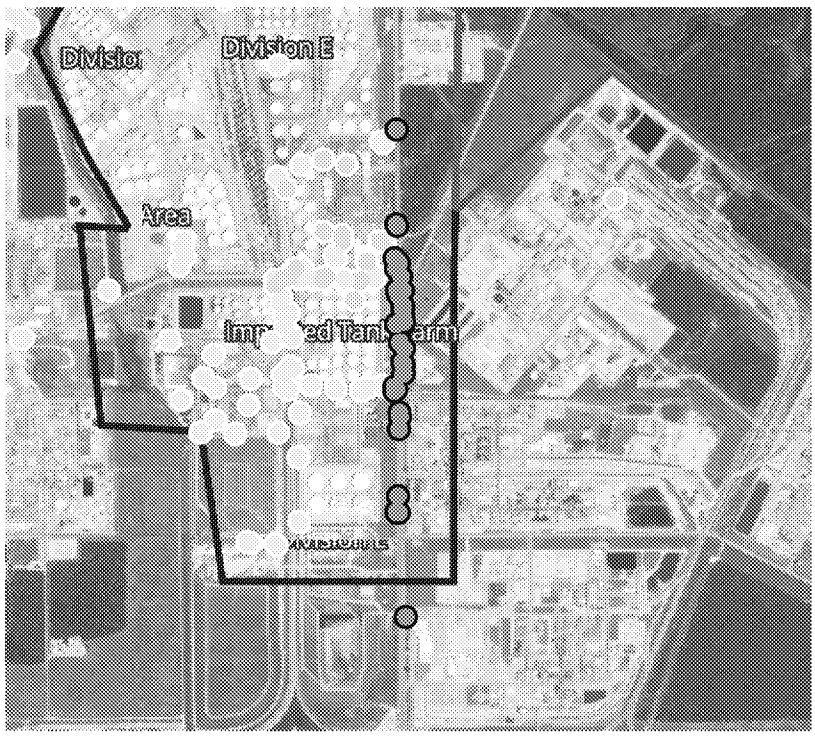
This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

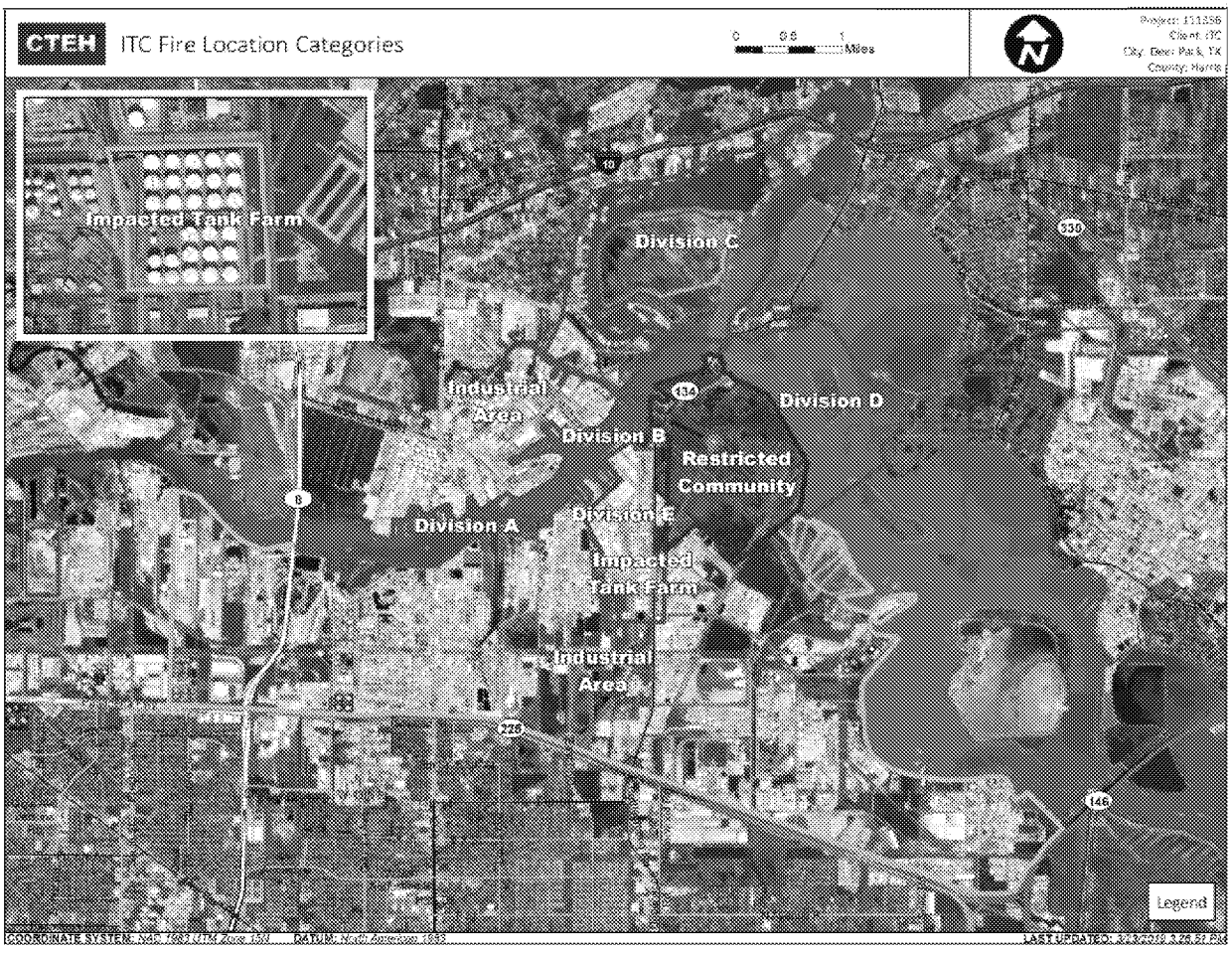
Reading Date
4/18/2019 12:00:00 AM to 4/18/2019 2:00:00 AM





Recent Benzene Detections

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).



Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/18/2019 5:01:55 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Report
Attachments: 20190418_1200_Benzene_Report.pdf; 20190418_1100_Benzene_Report.pdf

All,

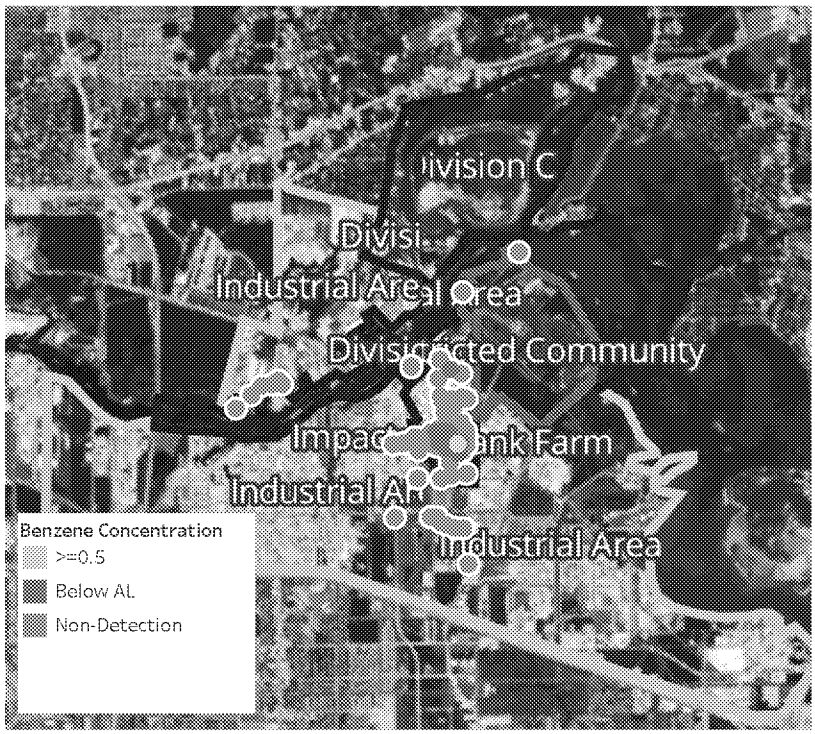
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

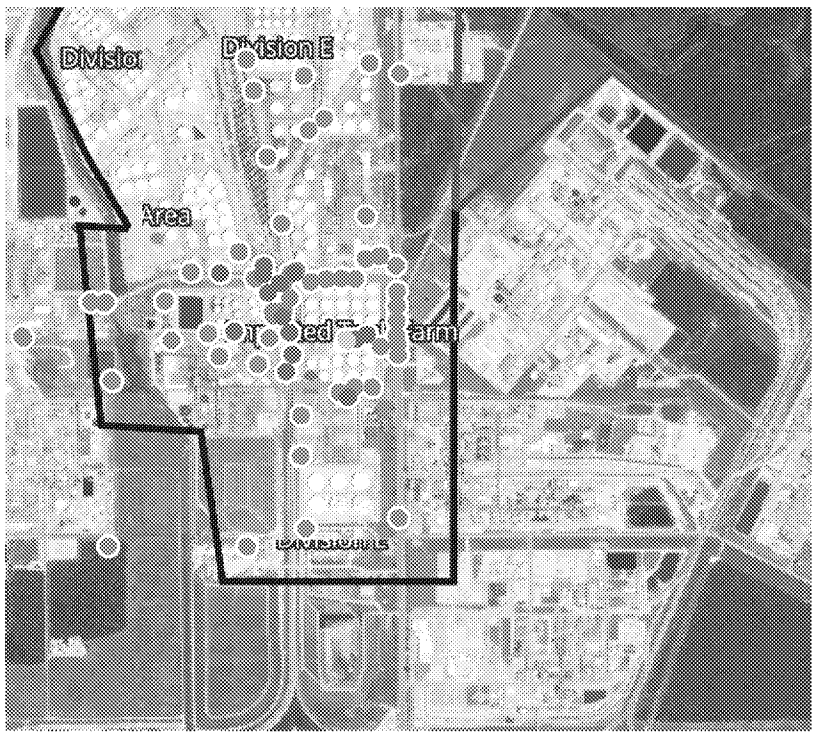
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 10:00:00 AM to 4/18/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 10:00:44	0.0400 ppm
	4/18/2019 10:03:58	0.0200 ppm
	4/18/2019 10:09:39	0.0900 ppm
	4/18/2019 10:15:13	0.0900 ppm
	4/18/2019 10:10:14	0.2250 ppm
	4/18/2019 10:16:48	0.2500 ppm
	4/18/2019 10:10:14	0.1750 ppm
	4/18/2019 10:44:35	0.1300 ppm
	4/18/2019 10:47:43	0.0300 ppm
	4/18/2019 10:53:13	0.1400 ppm
	4/18/2019 10:50:37	0.0300 ppm
	4/18/2019 10:56:22	0.0300 ppm
	4/18/2019 10:56:05	0.0700 ppm
Impacted Tank Farm	4/18/2019 10:21:41	0.1750 ppm
	4/18/2019 10:35:11	0.1500 ppm
	4/18/2019 10:43:45	0.2250 ppm
	4/18/2019 10:53:23	0.6750 ppm
	4/18/2019 10:54:06	0.6750 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 10:00:00 AM to 4/18/2019 11:00:00 AM

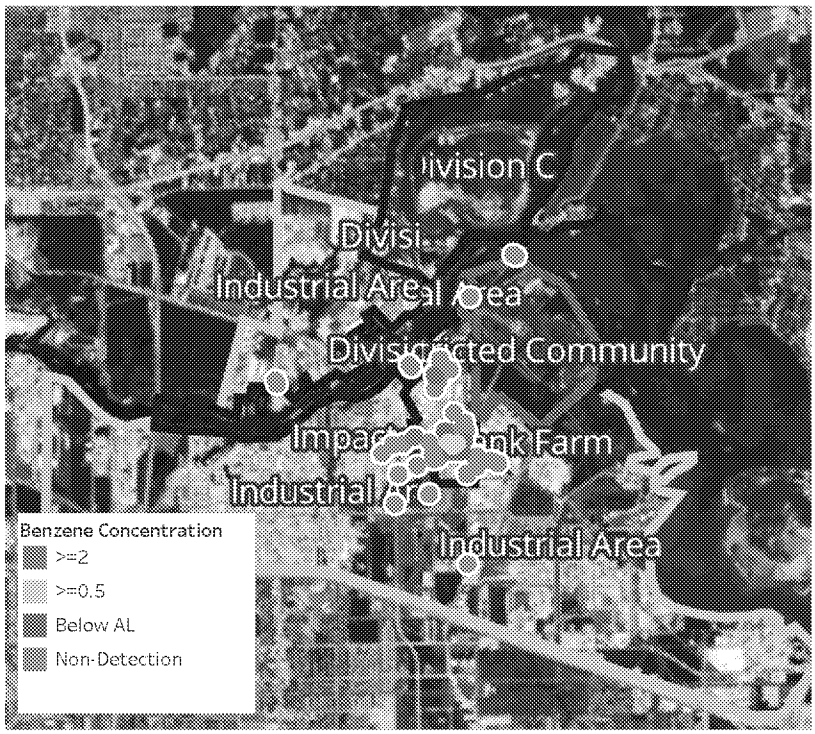
Benzene Action Level Concentration (ppm)

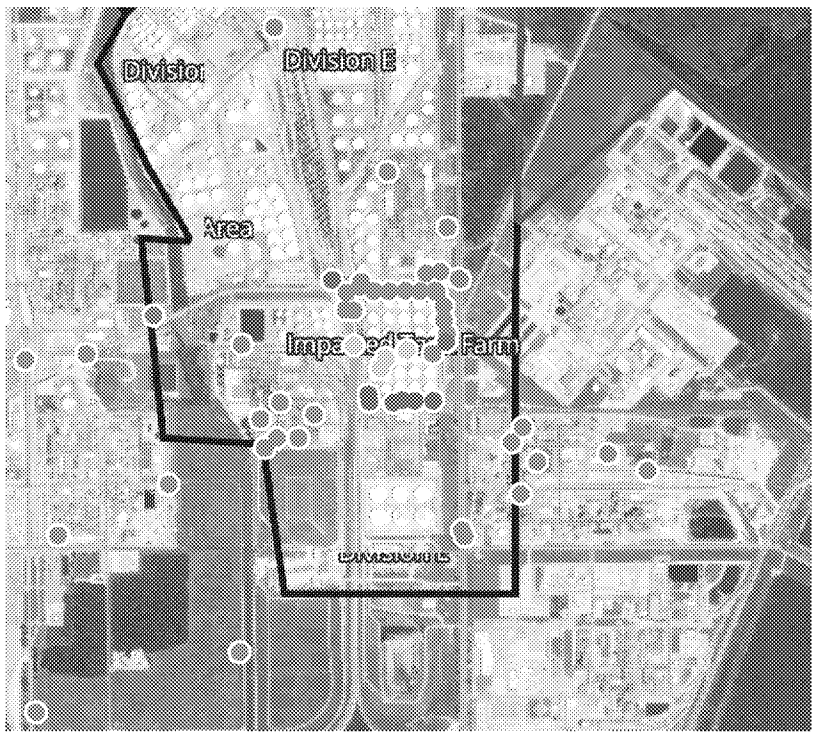
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 11:00:00 AM to 4/18/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 11:00:11	0.090 ppm
	4/18/2019 11:03:56	0.030 ppm
	4/18/2019 11:06:07	0.070 ppm
	4/18/2019 11:10:35	0.300 ppm
	4/18/2019 11:16:19	0.110 ppm
	4/18/2019 11:19:07	0.100 ppm
	4/18/2019 11:21:44	0.050 ppm
	4/18/2019 11:37:46	0.050 ppm
	4/18/2019 11:45:10	2.000 ppm
Impacted Tank Farm	4/18/2019 11:06:06	0.325 ppm
	4/18/2019 11:08:31	0.325 ppm
	4/18/2019 11:10:27	0.650 ppm
	4/18/2019 11:31:03	0.900 ppm
	4/18/2019 11:36:13	0.550 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 11:00:00 AM to 4/18/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 11:45:10	Division E	29.7525440,-95.0992470	https://www.google.com/maps/search/?api=1&query=29.7525440,-95.0992470	2.000 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/18/2019 5:10:20 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2400 Benzene Update
Attachments: 20190417_2300_benzene_report.pdf; 20190418_0000_benzene_report.pdf

All,

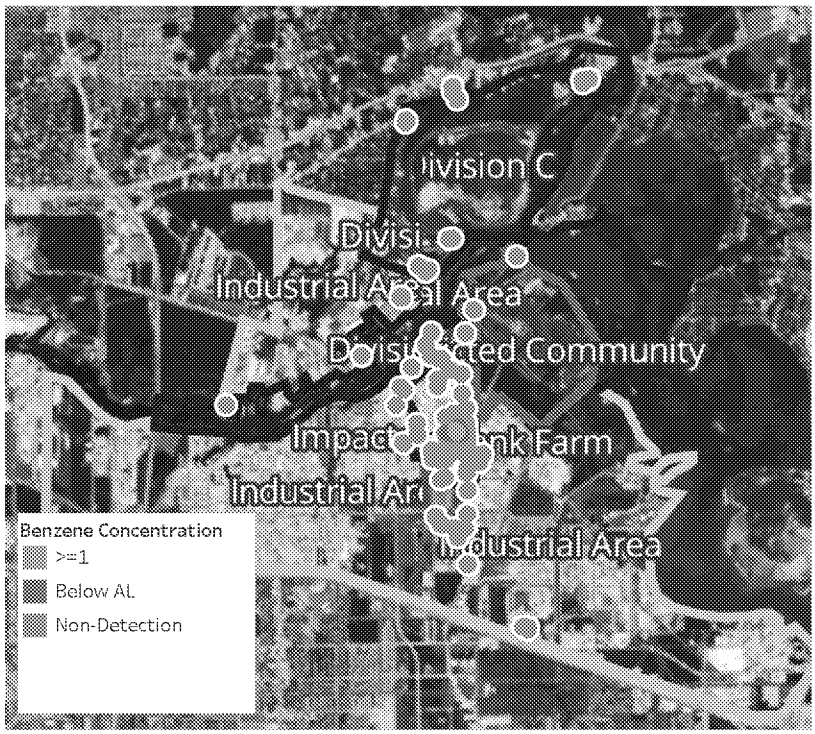
Attached are the benzene reports from 2200 – 2400.

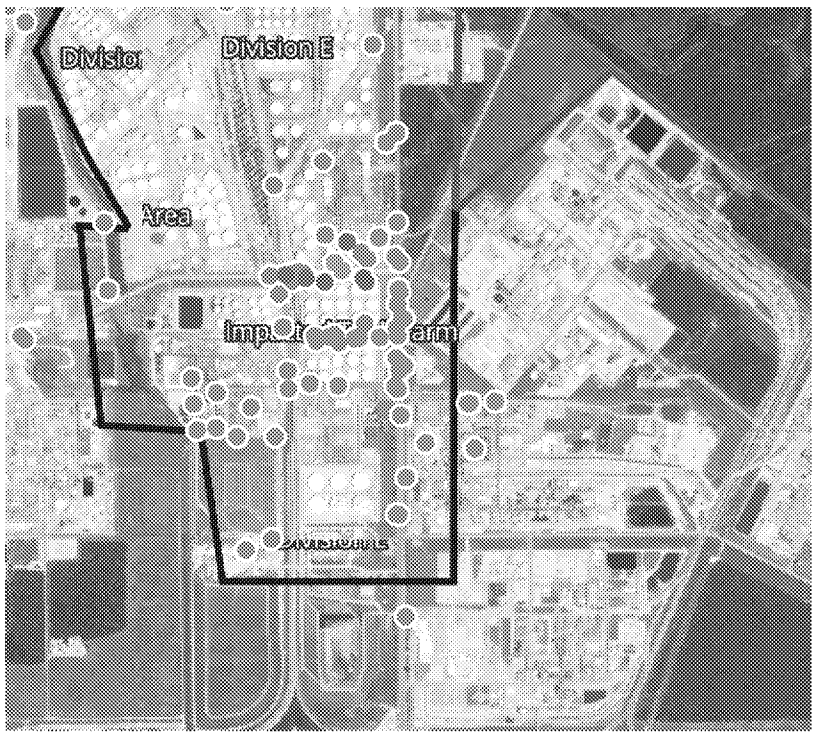
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 10:00:00 PM to 4/17/2019 11:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 22:02:02	0.050 ppm
	4/17/2019 22:07:51	0.130 ppm
	4/17/2019 22:10:07	0.360 ppm
	4/17/2019 22:12:58	1.130 ppm
	4/17/2019 22:15:42	0.130 ppm
	4/17/2019 22:19:56	0.090 ppm
	4/17/2019 22:16:39	0.020 ppm
	4/17/2019 22:21:08	1.160 ppm

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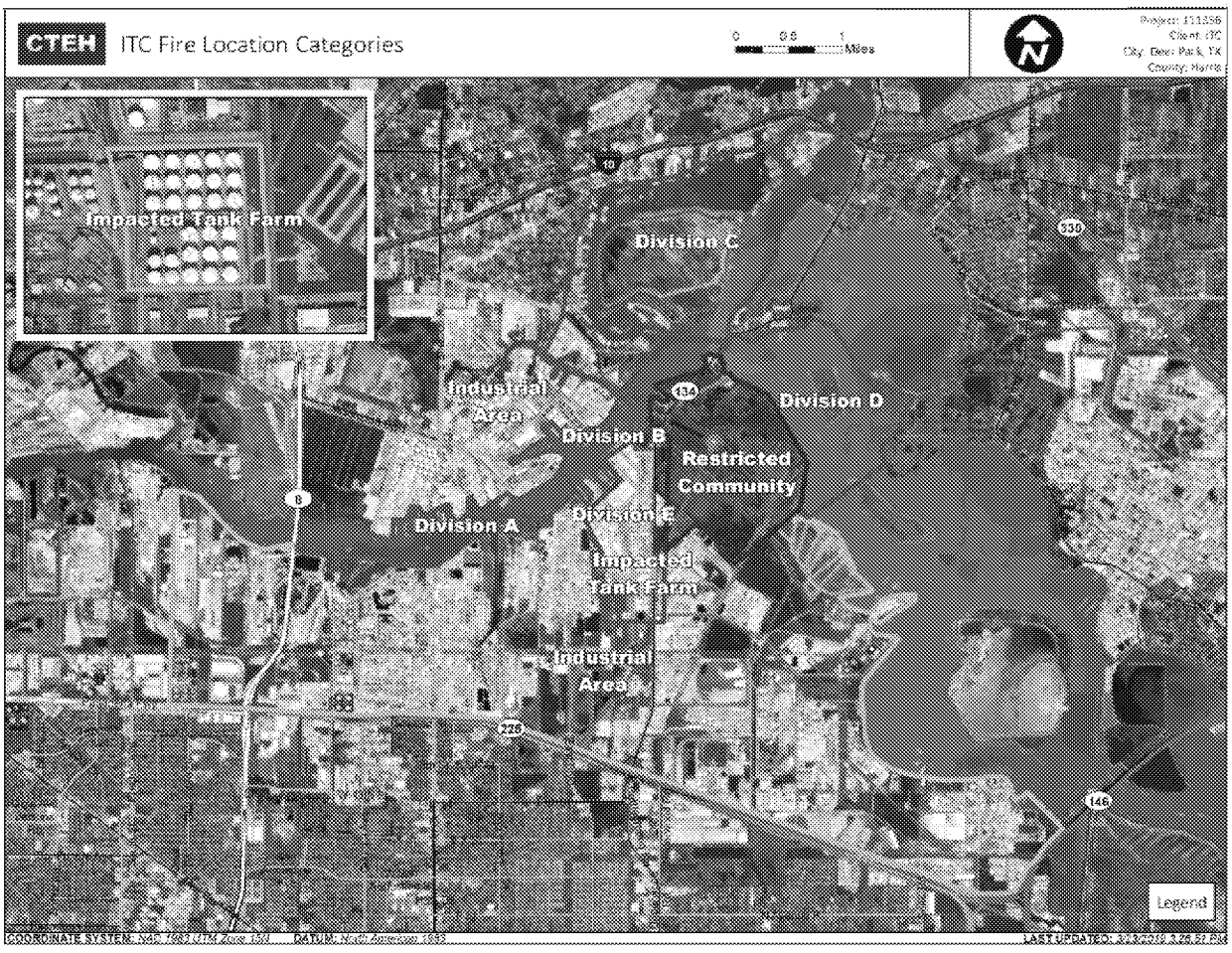
Reading Date
4/17/2019 10:00:00 PM to 4/17/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

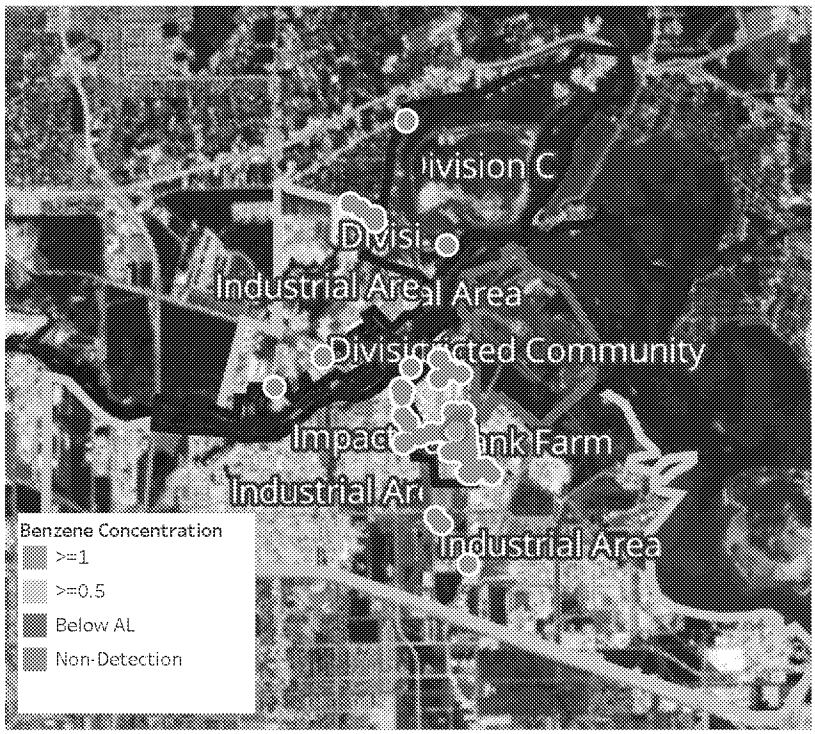
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 22:21:08	Division E	29.7535820, -95.0918190	https://www.google.com/maps/search/?api=1&query=29.7535820,-95.0918190	3.18000 ppm
4/17/2019 22:12:58	Division E	29.7533730, -95.0915830	https://www.google.com/maps/search/?api=1&query=29.7533730,-95.0915830	3.13000 ppm

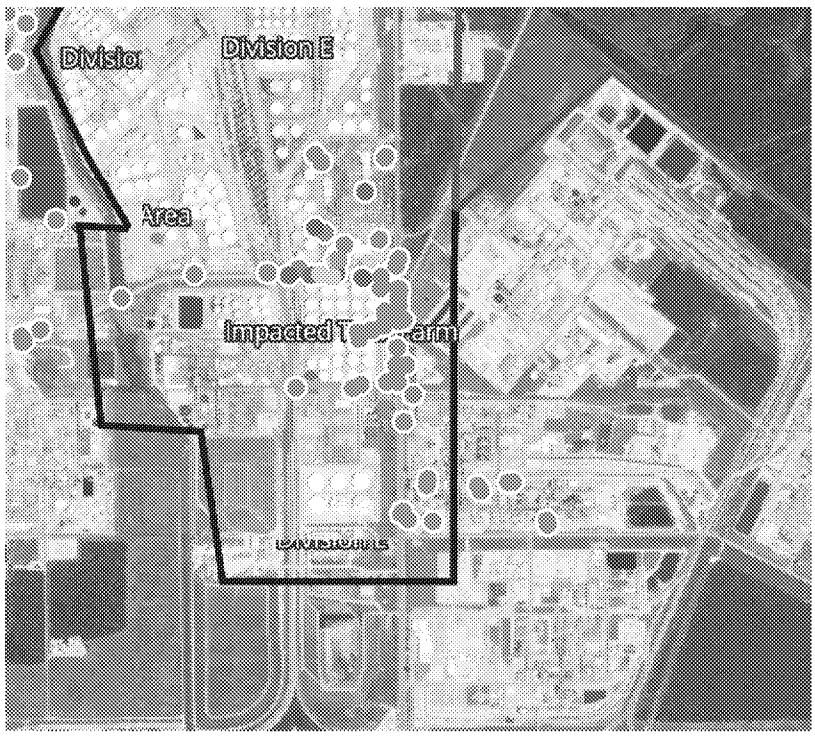


Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 11:00:00 PM to 4/18/2019 12:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 23:03:09	0.050 ppm
	4/17/2019 23:06:14	0.800 ppm
	4/17/2019 23:37:41	0.040 ppm
	4/17/2019 23:53:40	0.140 ppm
	4/17/2019 23:49:09	1.180 ppm
	4/17/2019 23:47:01	0.730 ppm
	4/17/2019 23:56:38	0.130 ppm
	4/17/2019 23:51:16	0.500 ppm
	4/17/2019 23:44:12	0.490 ppm
	4/17/2019 23:59:01	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 11:00:00 PM to 4/18/2019 12:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 23:49:08	Division E	29.7536560,-95.0916950	https://www.google.com/maps/search/?api=1&query=29.7536560,-95.0916950	1.190 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/18/2019 3:18:50 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190417_2100_benzene_report.pdf; 20190417_2200_benzene_report.pdf

All,

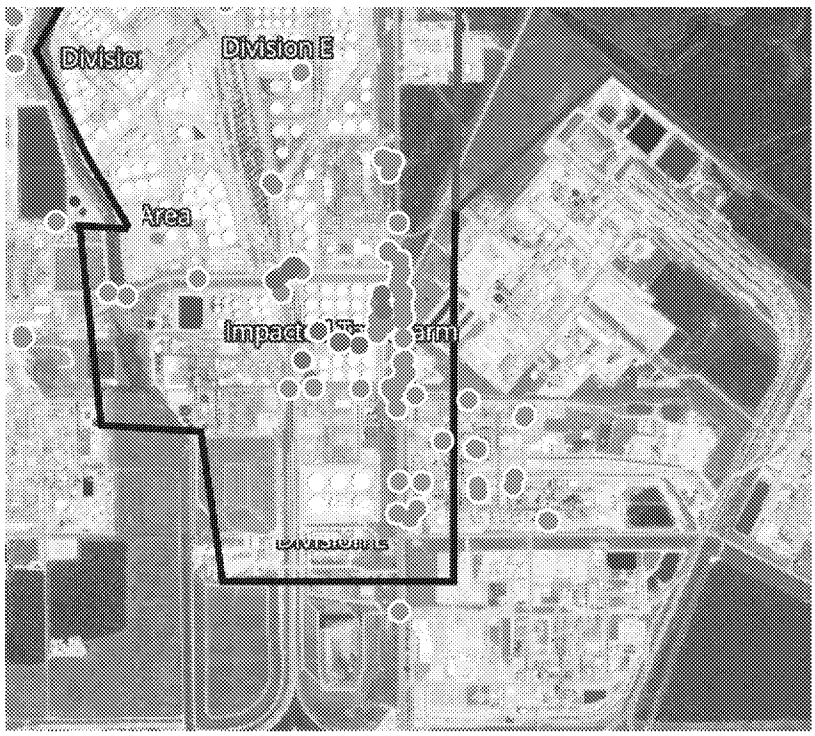
Attached are the benzene reports from 2000 – 2200.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 8:00:00 PM to 4/17/2019 9:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 20:03:55	0.0500 ppm
	4/17/2019 20:01:34	0.1700 ppm
	4/17/2019 20:32:53	0.0400 ppm
	4/17/2019 20:47:39	0.0200 ppm
	4/17/2019 20:49:30	0.0300 ppm
Impacted Tank Farm	4/17/2019 20:17:13	0.0700 ppm
	4/17/2019 20:35:14	0.0700 ppm
	4/17/2019 20:52:27	0.0400 ppm
	4/17/2019 20:47:23	0.1100 ppm
	4/17/2019 20:49:12	0.1100 ppm
	4/17/2019 20:50:42	0.1700 ppm
	4/17/2019 20:45:40	0.0100 ppm
	4/17/2019 20:57:01	0.0200 ppm

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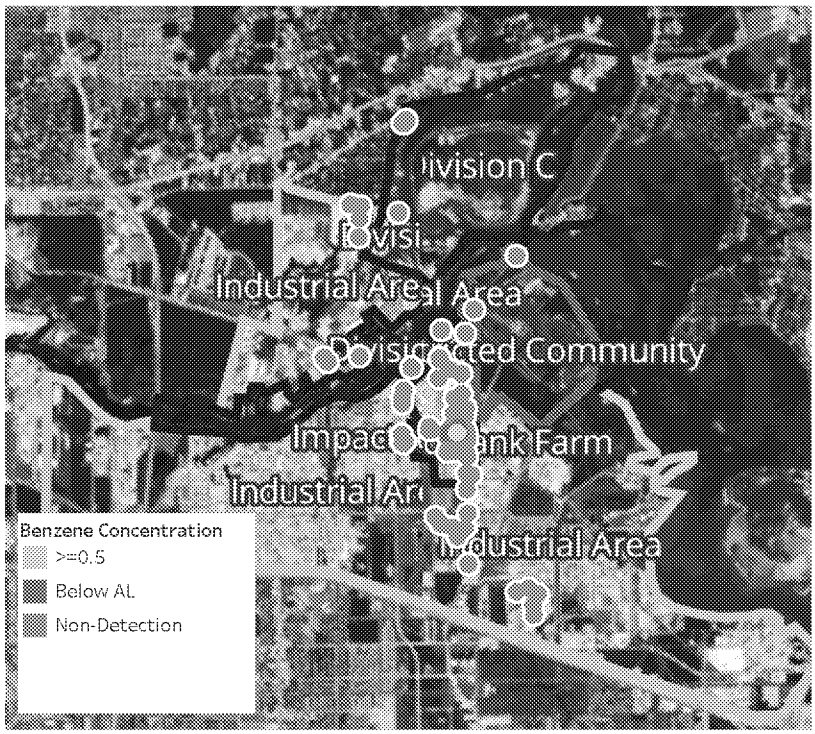
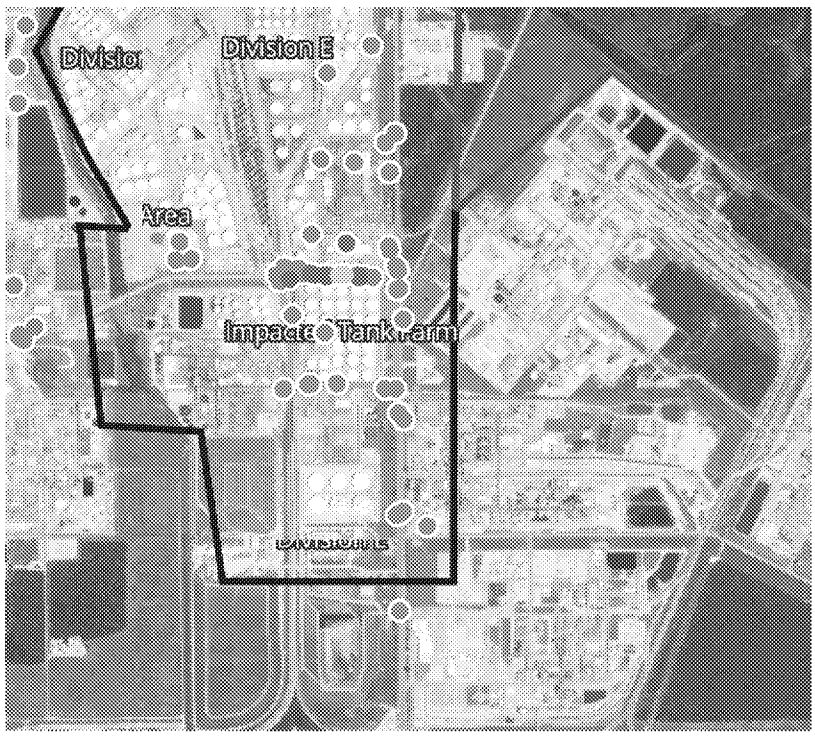
Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 9:00:00 PM to 4/17/2019 10:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 21:10:48	0.7400 ppm
	4/17/2019 21:05:25	0.3900 ppm
	4/17/2019 21:17:25	0.1000 ppm
	4/17/2019 21:14:08	0.3500 ppm
	4/17/2019 21:19:03	0.0300 ppm
	4/17/2019 21:15:34	0.3100 ppm
	4/17/2019 21:07:14	0.4200 ppm
	4/17/2019 21:12:01	0.7400 ppm
	4/17/2019 21:17:41	0.1600 ppm
	4/17/2019 21:43:18	0.1400 ppm

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Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/18/2019 3:15:39 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190418_1000_Benzene_Report.pdf; 20190418_0900_Benzene_Report.pdf

All,

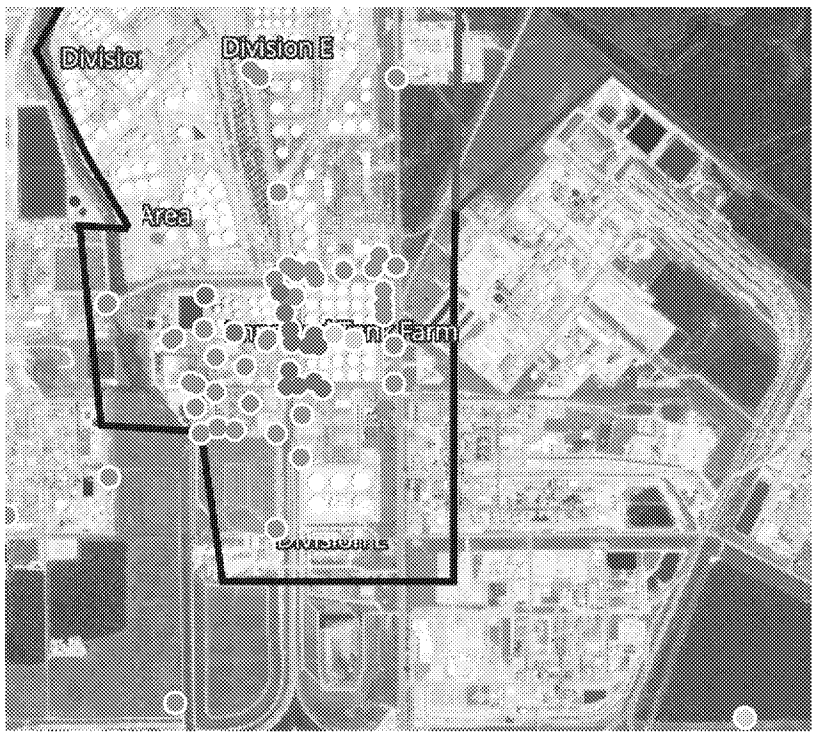
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 8:00:00 AM to 4/18/2019 9:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 08:08:13	0.1400 ppm
	4/18/2019 09:09:38	0.0200 ppm
	4/18/2019 08:02:58	0.2900 ppm
	4/18/2019 08:20:24	0.0300 ppm
	4/18/2019 08:19:42	0.2200 ppm
	4/18/2019 08:28:57	0.1800 ppm
	4/18/2019 08:15:51	0.2000 ppm
	4/18/2019 08:30:26	0.1600 ppm
	4/18/2019 08:07:51	0.1250 ppm
	4/18/2019 08:32:41	0.0400 ppm
	4/18/2019 08:37:36	0.2500 ppm
	4/18/2019 08:37:07	0.0600 ppm
	4/18/2019 08:39:40	0.0100 ppm
	4/18/2019 08:49:01	0.0200 ppm
	4/18/2019 09:49:51	0.2400 ppm
	4/18/2019 08:36:35	0.1000 ppm
	4/18/2019 09:45:58	0.0500 ppm
	4/18/2019 08:50:54	0.2100 ppm
	4/18/2019 08:51:54	0.0900 ppm
Impacted Tank Farm	4/18/2019 09:06:37	0.1750 ppm
	4/18/2019 08:25:59	0.6500 ppm
	4/18/2019 08:24:11	0.6250 ppm
	4/18/2019 08:34:41	0.9250 ppm
	4/18/2019 09:28:06	0.7000 ppm
	4/18/2019 08:47:32	0.2250 ppm
	4/18/2019 08:53:41	0.2750 ppm

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Reading Date
4/18/2019 8:00:00 AM to 4/18/2019 9:00:00 AM

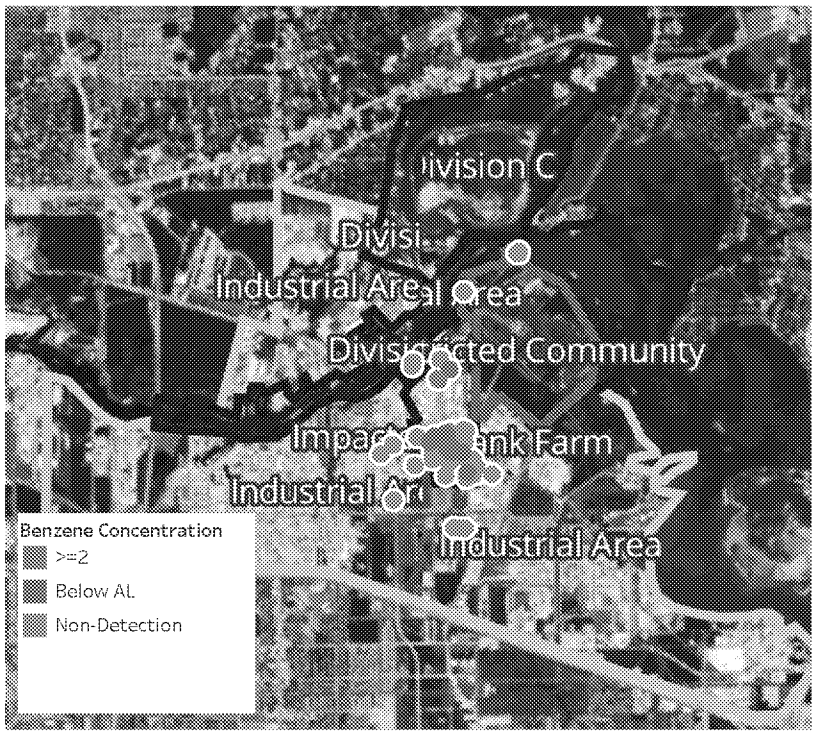
Benzene Action Level Concentration (ppm)

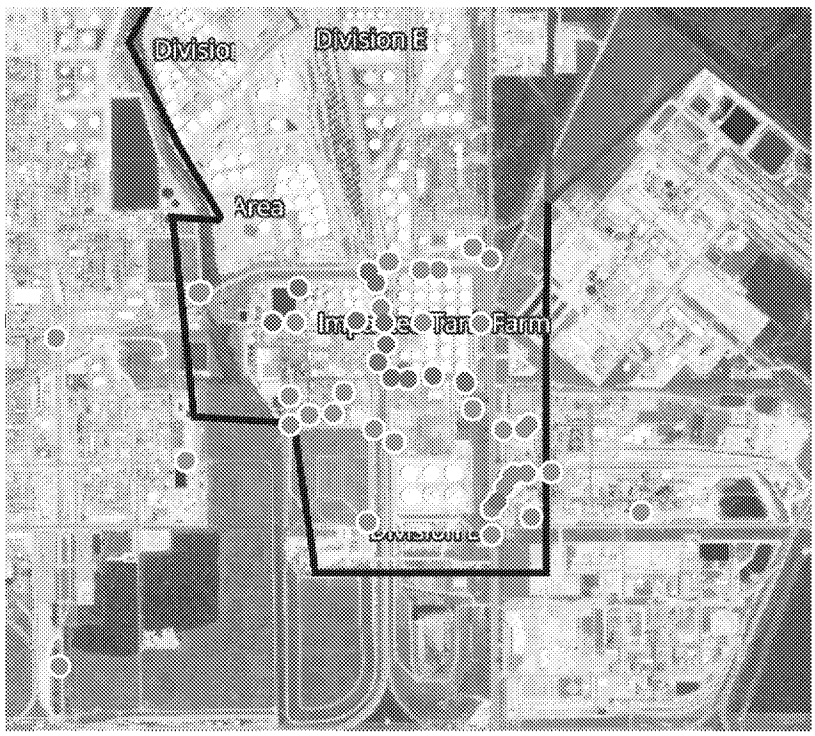
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 9:00:00 AM to 4/18/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 09:04:52	0.120 ppm
	4/18/2019 09:07:37	0.050 ppm
	4/18/2019 09:07:08	0.240 ppm
	4/18/2019 09:09:16	0.120 ppm
	4/18/2019 09:09:17	0.170 ppm
	4/18/2019 09:13:19	0.050 ppm
	4/18/2019 09:20:40	0.020 ppm
	4/18/2019 09:19:11	0.040 ppm
	4/18/2019 09:23:10	0.020 ppm
	4/18/2019 09:30:13	0.020 ppm
	4/18/2019 09:12:41	2.150 ppm
	4/18/2019 09:30:42	0.110 ppm
	4/18/2019 09:33:00	0.130 ppm
	4/18/2019 09:33:50	0.100 ppm
	4/18/2019 09:44:22	0.200 ppm
	4/18/2019 09:44:40	0.030 ppm
	4/18/2019 09:49:29	0.020 ppm
	4/18/2019 09:47:40	0.020 ppm
	4/18/2019 09:51:10	0.020 ppm
Industrial Area	4/18/2019 09:31:50	0.060 ppm
	4/18/2019 09:35:28	0.020 ppm

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Reading Date
4/18/2019 9:00:00 AM to 4/18/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 09:12:41	Division E	29.7416930,-95.0950740	https://www.google.com/maps/search/?api=1&query=29.7416930,-95.0950740	2.150 ppm

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Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/18/2019 1:22:16 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2000 Benzene Update
Attachments: 20190417_1900_benzene_report.pdf; 20190417_2000_benzene_report.pdf

All,

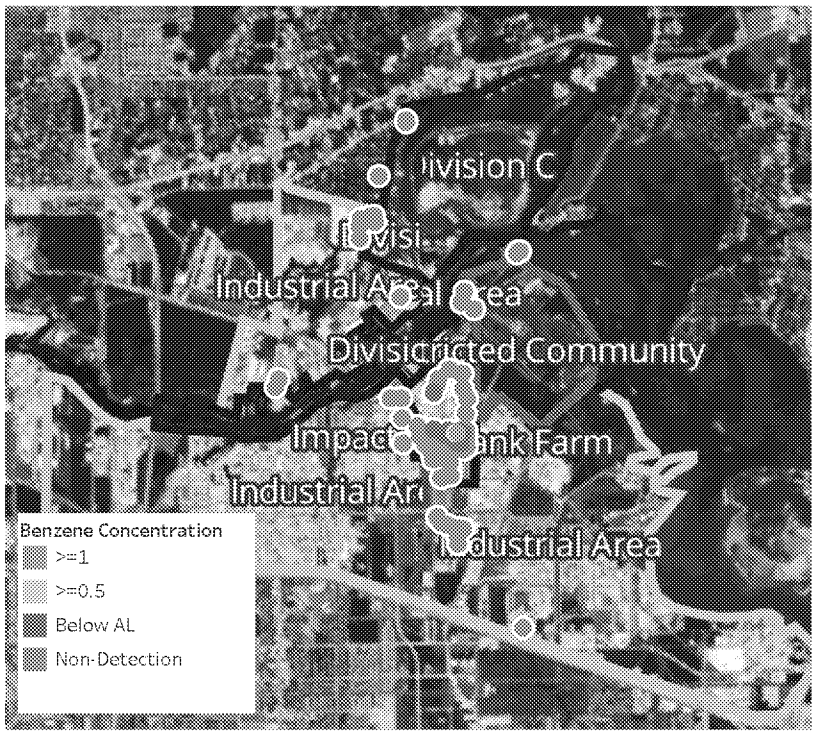
Attached are the benzene reports from 1800 – 2000.

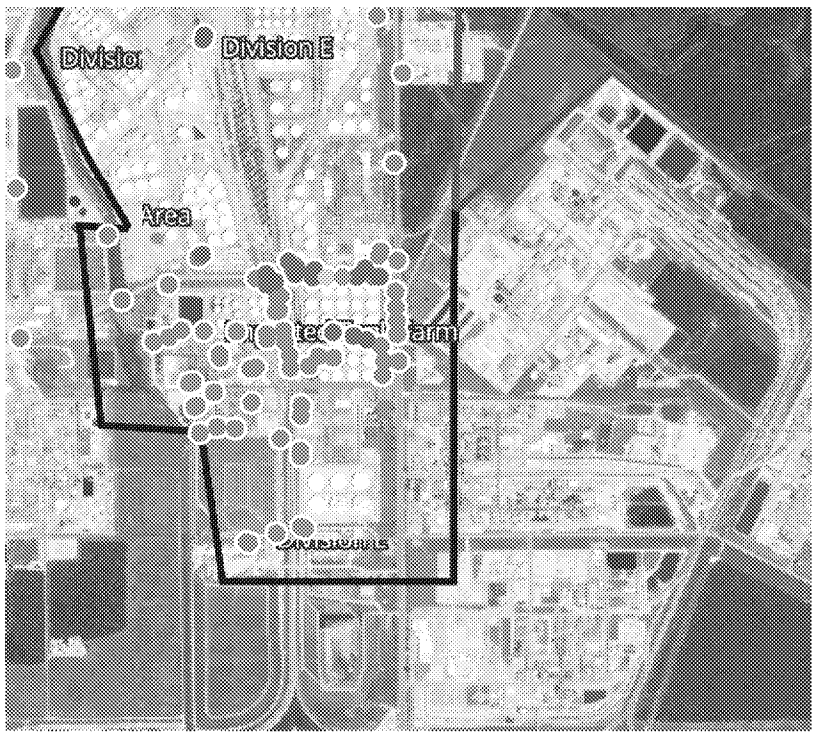
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 6:00:00 PM to 4/17/2019 7:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 18:06:46	0.030 ppm
	4/17/2019 18:16:38	0.080 ppm
	4/17/2019 18:16:54	0.550 ppm
	4/17/2019 18:21:30	1.720 ppm
	4/17/2019 18:23:48	0.050 ppm
	4/17/2019 18:27:49	0.100 ppm
	4/17/2019 18:27:41	0.320 ppm
	4/17/2019 18:05:29	0.200 ppm
	4/17/2019 18:34:06	0.100 ppm
	4/17/2019 18:42:30	0.040 ppm
	4/17/2019 18:45:40	0.310 ppm
	4/17/2019 18:44:04	0.080 ppm
	4/17/2019 18:31:33	0.120 ppm
	4/17/2019 18:26:48	0.030 ppm
	4/17/2019 18:49:40	0.030 ppm
	4/17/2019 18:53:10	0.050 ppm
Impacted Tank Farm	4/17/2019 18:53:16	0.110 ppm
	4/17/2019 18:55:59	0.080 ppm
	4/17/2019 18:59:17	0.120 ppm

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Reading Date
4/17/2019 6:00:00 PM to 4/17/2019 7:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 18:21:30	Division E	29.753z010,-95.0915730	https://www.google.com/maps/search/?api=1&query=29.753z010,-95.0915730	1.720 ppm

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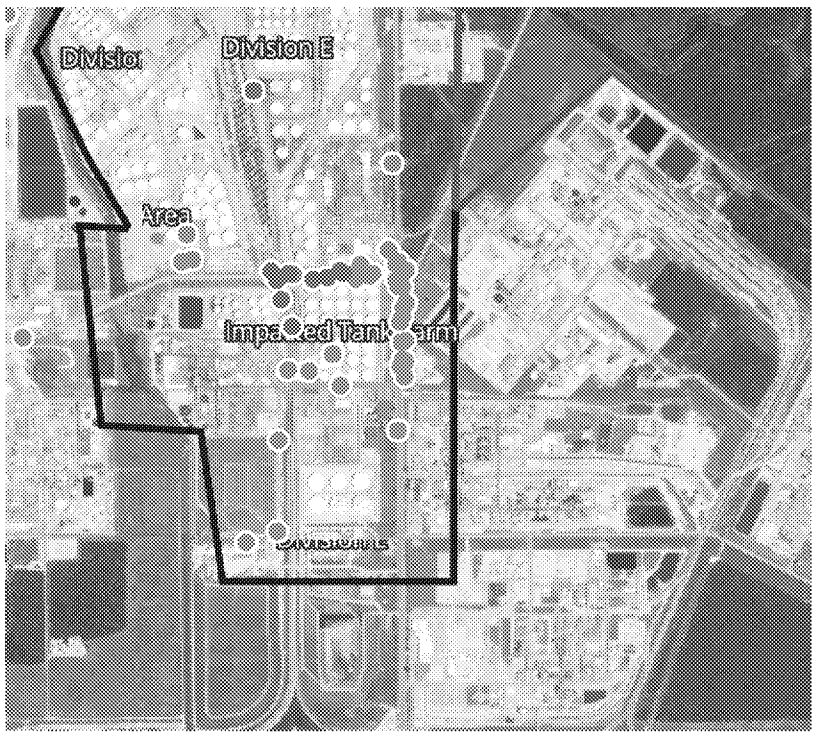
Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 7:00:00 PM to 4/17/2019 8:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 19:00:05	0.0400 ppm
	4/17/2019 19:15:06	0.1500 ppm
	4/17/2019 19:33:27	0.1500 ppm
	4/17/2019 19:39:02	0.1200 ppm
	4/17/2019 19:42:56	0.0200 ppm
	4/17/2019 19:50:47	0.1600 ppm
	4/17/2019 19:49:14	0.2200 ppm
	4/17/2019 19:49:55	0.1700 ppm
	4/17/2019 19:54:22	0.2100 ppm
	4/17/2019 19:56:02	0.2500 ppm
	4/17/2019 19:59:52	0.1800 ppm

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Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/17/2019 11:04:18 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Report
Attachments: 20190417_1700_Benzene_Report.pdf; 20190417_1800_Benzene_Report.pdf

All,

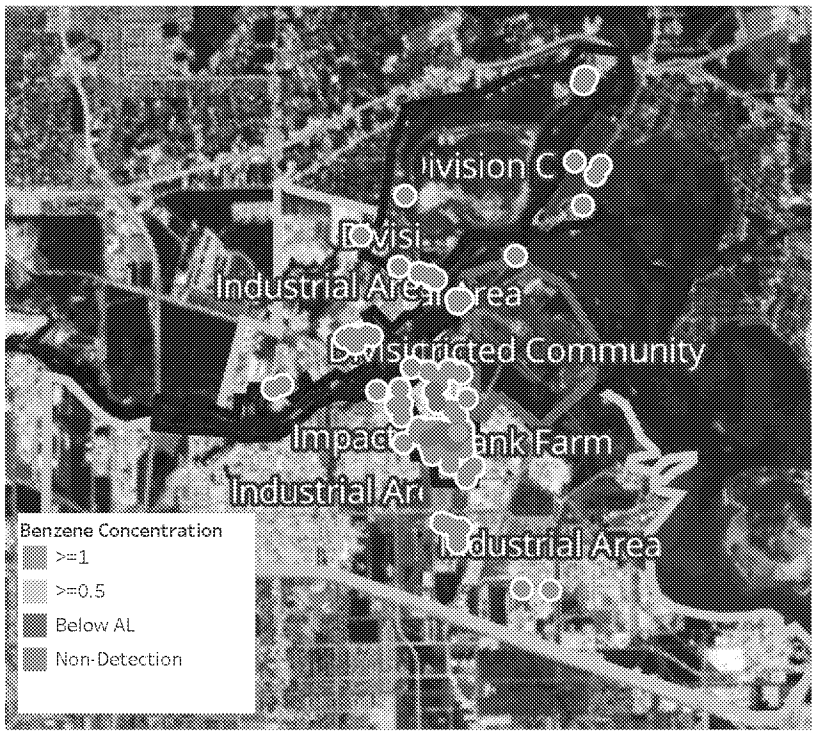
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

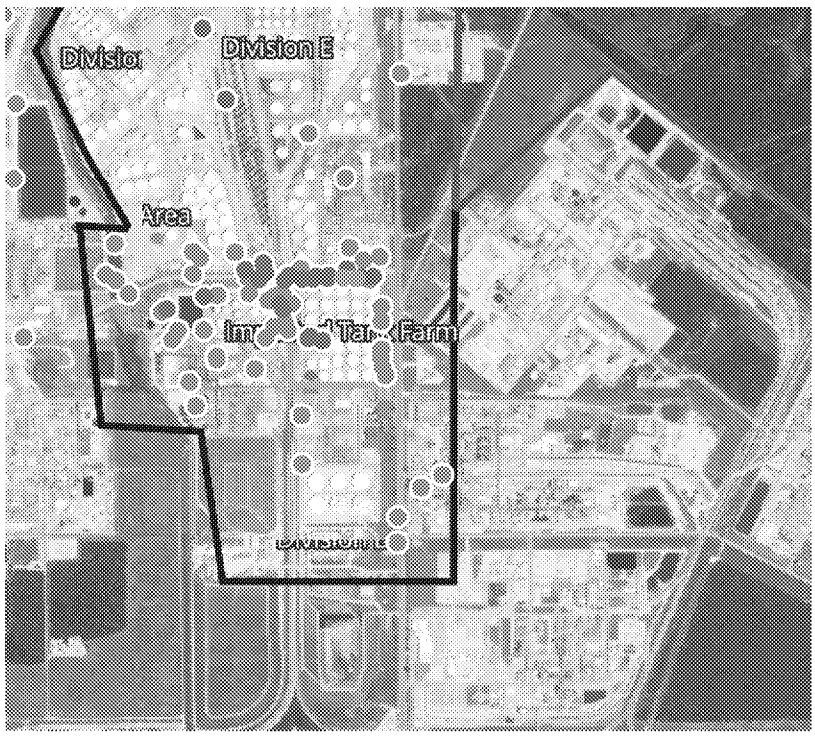
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 4:00:00 PM to 4/17/2019 5:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 16:01:06	0.100 ppm
	4/17/2019 16:03:40	0.210 ppm
	4/17/2019 16:04:53	0.020 ppm
	4/17/2019 16:06:03	0.030 ppm
	4/17/2019 16:03:59	0.040 ppm
	4/17/2019 16:06:20	0.140 ppm
	4/17/2019 16:07:50	0.030 ppm
	4/17/2019 16:08:18	0.020 ppm
	4/17/2019 16:09:07	1.070 ppm
	4/17/2019 16:13:31	0.200 ppm
	4/17/2019 16:11:20	1.100 ppm
	4/17/2019 16:07:52	0.370 ppm
	4/17/2019 16:02:34	0.030 ppm
	4/17/2019 16:30:29	0.050 ppm
	4/17/2019 16:37:18	0.050 ppm
	4/17/2019 16:09:20	0.370 ppm
	4/17/2019 16:42:45	0.250 ppm
	4/17/2019 16:33:07	0.020 ppm
	4/17/2019 16:19:12	0.370 ppm
	4/17/2019 16:58:32	0.040 ppm
	4/17/2019 16:44:26	0.030 ppm
	4/17/2019 16:33:32	0.060 ppm
	4/17/2019 16:34:39	0.050 ppm
	4/17/2019 16:20:55	0.870 ppm
Impacted Tank Farm	4/17/2019 16:14:53	0.030 ppm
	4/17/2019 16:29:31	0.110 ppm
	4/17/2019 16:48:47	0.030 ppm

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Reading Date
4/17/2019 4:00:00 PM to 4/17/2019 5:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

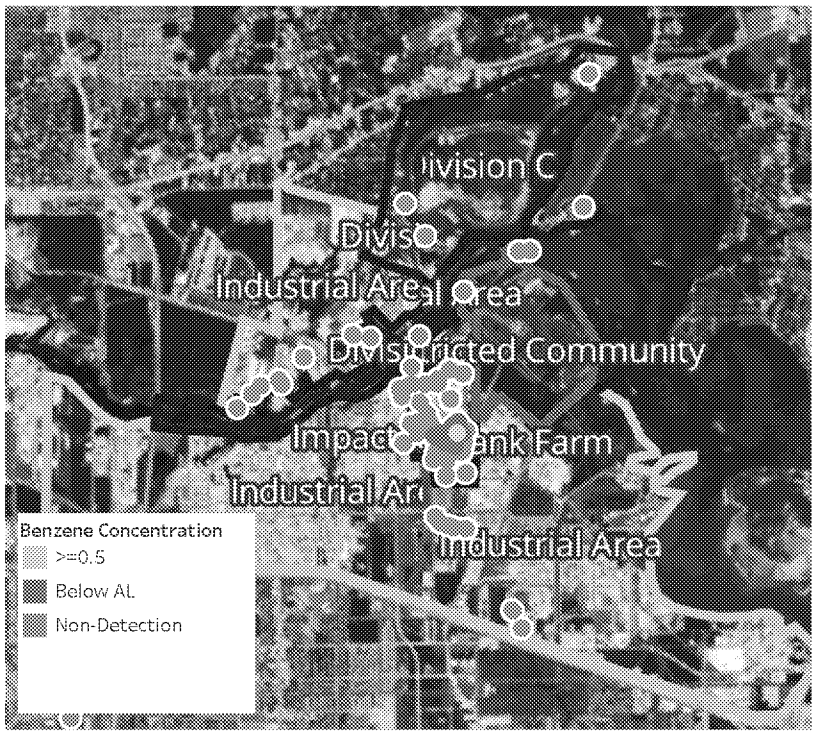
Recent Benzene Detections Greater than 1.00 ppm

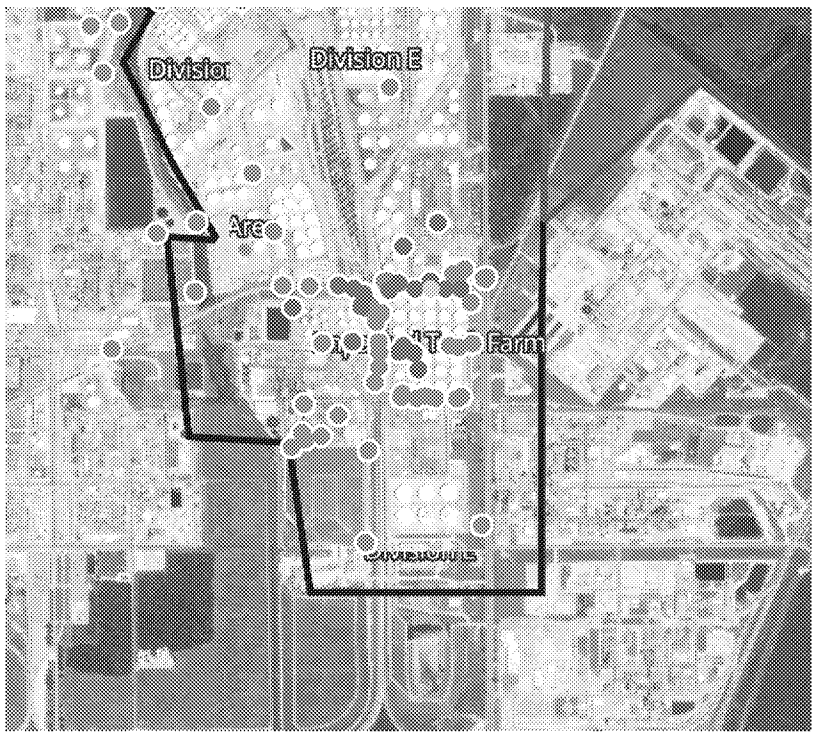
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 16:11:20	Division E	29.7531660,-95.0911510	https://www.google.com/maps/search/?api=1&query=29.7531660,-95.0911510	1.16000 ppm
4/17/2019 16:09:07	Division E	29.7531920,-95.0915760	https://www.google.com/maps/search/?api=1&query=29.7531920,-95.0915760	1.07000 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 5:00:00 PM to 4/17/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 17:00:33	0.1500 ppm
	4/17/2019 17:02:56	0.6400 ppm
	4/17/2019 17:05:00	0.0900 ppm
	4/17/2019 17:07:06	0.1200 ppm
	4/17/2019 17:16:45	0.0200 ppm
	4/17/2019 17:21:09	0.0200 ppm
	4/17/2019 17:18:42	0.0600 ppm
	4/17/2019 17:22:41	0.0100 ppm
	4/17/2019 17:21:52	0.3000 ppm
	4/17/2019 17:25:56	0.1300 ppm
	4/17/2019 17:34:52	0.0300 ppm
	4/17/2019 17:36:20	0.0200 ppm
	4/17/2019 17:39:37	0.1100 ppm
	4/17/2019 17:50:28	0.0200 ppm
	4/17/2019 17:29:25	0.0700 ppm
	4/17/2019 17:32:38	0.1100 ppm
Impacted Tank Farm	4/17/2019 17:07:23	0.0300 ppm
	4/17/2019 17:25:01	0.0300 ppm
	4/17/2019 17:38:07	0.0300 ppm
	4/17/2019 17:49:16	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 5:00:00 PM to 4/17/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/12/2019 3:25:01 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190412_0900_benzene_report.pdf; 20190412_1000_benzene_report.pdf

All,

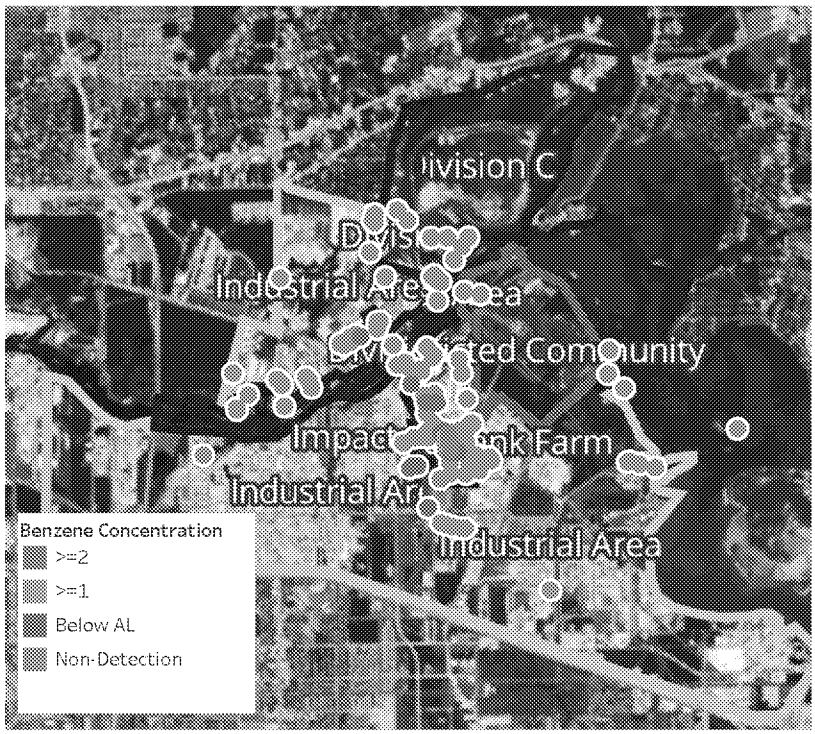
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

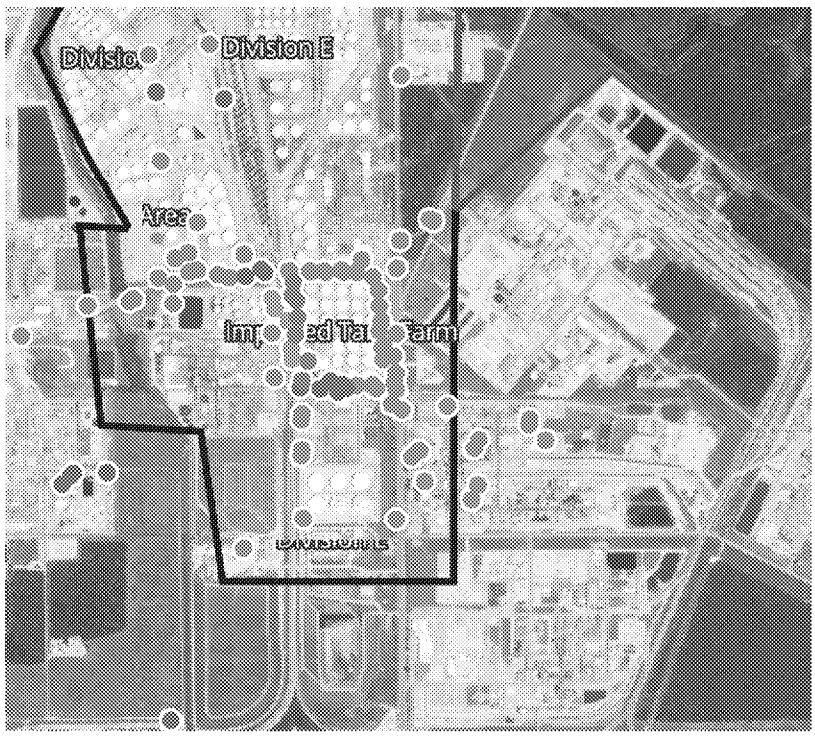
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 8:00:00 AM to 4/12/2019 9:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/12/2019 08:27:54	0.10 ppm
	4/12/2019 08:08:14	0.05 ppm
Division E	4/12/2019 08:03:53	2.80 ppm
	4/12/2019 08:15:32	0.04 ppm
	4/12/2019 08:30:06	0.11 ppm
	4/12/2019 08:37:05	0.08 ppm
	4/12/2019 08:38:06	1.02 ppm
	4/12/2019 08:41:30	0.11 ppm
	4/12/2019 08:44:11	0.11 ppm
	4/12/2019 08:47:02	0.18 ppm
	4/12/2019 08:47:41	1.08 ppm
	4/12/2019 08:53:12	1.83 ppm
	4/12/2019 08:54:07	1.73 ppm
	4/12/2019 08:47:49	4.22 ppm
	4/12/2019 08:55:42	1.94 ppm
	4/12/2019 08:55:41	0.02 ppm
	4/12/2019 08:58:49	0.03 ppm
	4/12/2019 08:53:43	0.02 ppm
	4/12/2019 08:51:37	0.08 ppm
	4/12/2019 08:54:20	0.08 ppm
Impacted Tank Farm	4/12/2019 08:02:51	11.25 ppm
	4/12/2019 09:22:57	26.55 ppm
	4/12/2019 08:34:07	2.75 ppm
	4/12/2019 08:40:24	2.88 ppm
	4/12/2019 08:43:49	5.45 ppm
Industrial Area	4/12/2019 09:10:00	0.20 ppm
	4/12/2019 09:16:01	0.49 ppm
	4/12/2019 09:26:04	0.09 ppm
	4/12/2019 08:38:17	0.12 ppm
	4/12/2019 08:48:17	0.42 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

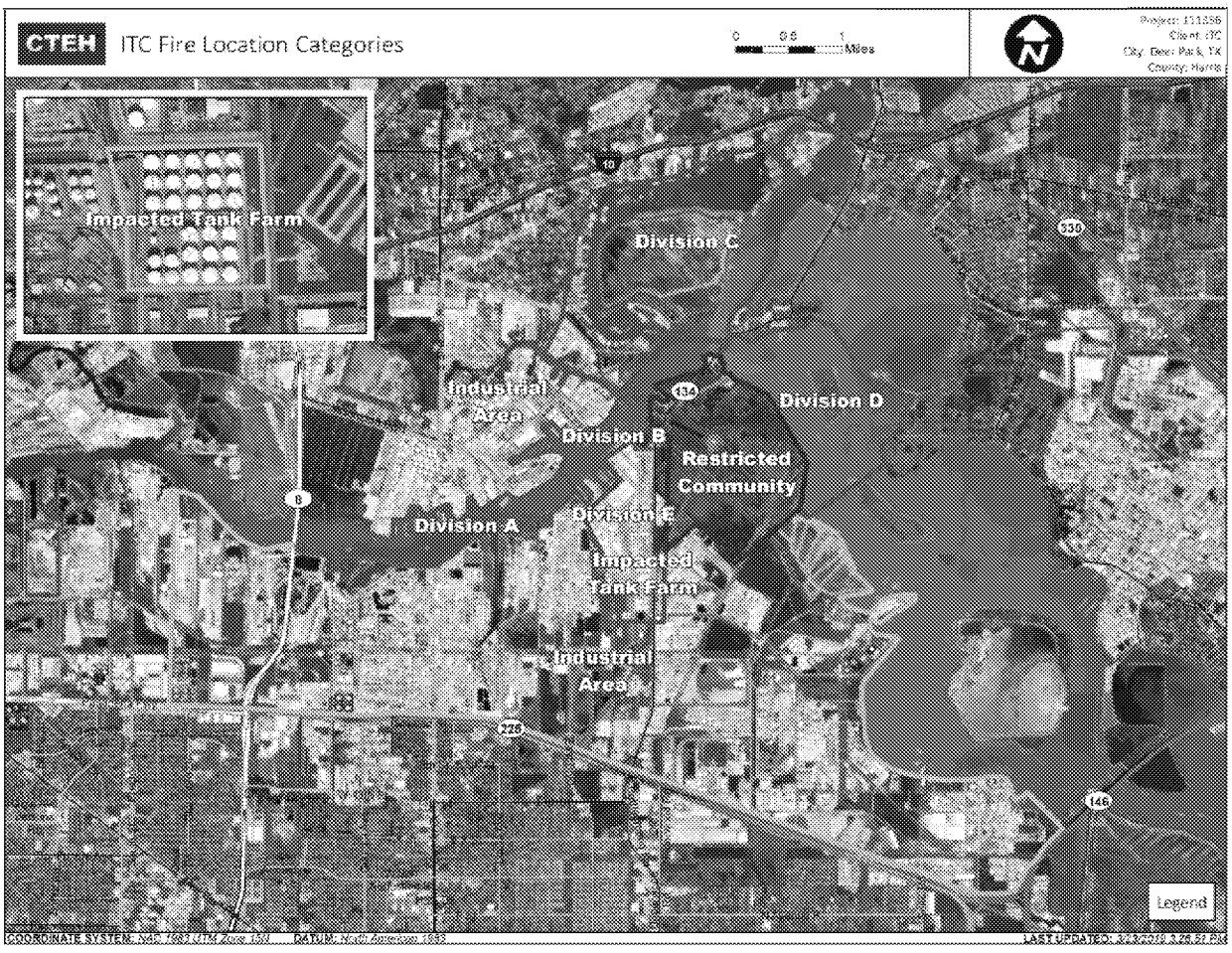
Reading Date
4/12/2019 8:00:00 AM to 4/12/2019 9:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

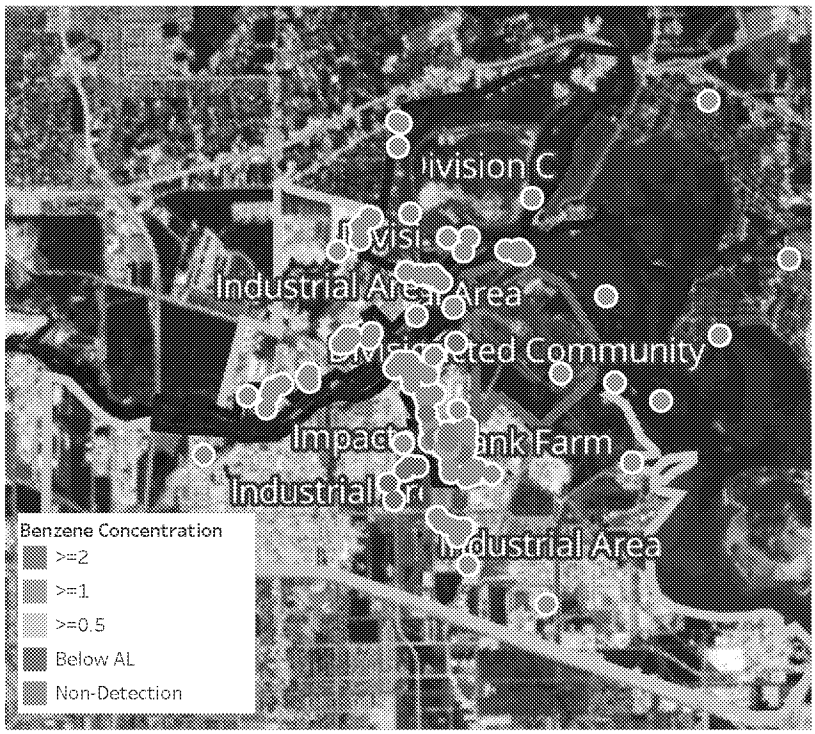
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 08:55:42	Division E	29.7313120,-95.0931290	https://www.google.com/maps/search/?api=1&query=29.7313120,-95.0931290	1.94 ppm
4/12/2019 08:54:07	Division E	29.7320450,-95.0932330	https://www.google.com/maps/search/?api=1&query=29.7320450,-95.0932330	1.73 ppm
4/12/2019 08:53:12	Division E	29.7310320,-95.0931070	https://www.google.com/maps/search/?api=1&query=29.7310320,-95.0931070	1.85 ppm
4/12/2019 08:47:49	Division E	29.7316700,-95.0930150	https://www.google.com/maps/search/?api=1&query=29.7316700,-95.0930150	4.22 ppm
4/12/2019 08:47:41	Division E	29.7323740,-95.0936440	https://www.google.com/maps/search/?api=1&query=29.7323740,-95.0936440	1.58 ppm
4/12/2019 08:43:49	Impacted Tank Farm	29.7527300,-95.0931020	https://www.google.com/maps/search/?api=1&query=29.7527300,-95.0931020	5.45 ppm
4/12/2019 08:40:24	Impacted Tank Farm	29.7509797,-95.0926185	https://www.google.com/maps/search/?api=1&query=29.7509797,-95.0926185	2.88 ppm
4/12/2019 08:38:06	Division E	29.7326350,-95.0927170	https://www.google.com/maps/search/?api=1&query=29.7326350,-95.0927170	1.02 ppm
4/12/2019 08:34:07	Impacted Tank Farm	29.7326810,-95.0929760	https://www.google.com/maps/search/?api=1&query=29.7326810,-95.0929760	2.75 ppm
4/12/2019 08:22:57	Impacted Tank Farm	29.7321350,-95.0929440	https://www.google.com/maps/search/?api=1&query=29.7321350,-95.0929440	28.55 ppm
4/12/2019 08:03:53	Division E	29.7504610,-95.0928100	https://www.google.com/maps/search/?api=1&query=29.7504610,-95.0928100	2.89 ppm
4/12/2019 08:02:51	Impacted Tank Farm	29.7530830,-95.0930760	https://www.google.com/maps/search/?api=1&query=29.7530830,-95.0930760	11.25 ppm

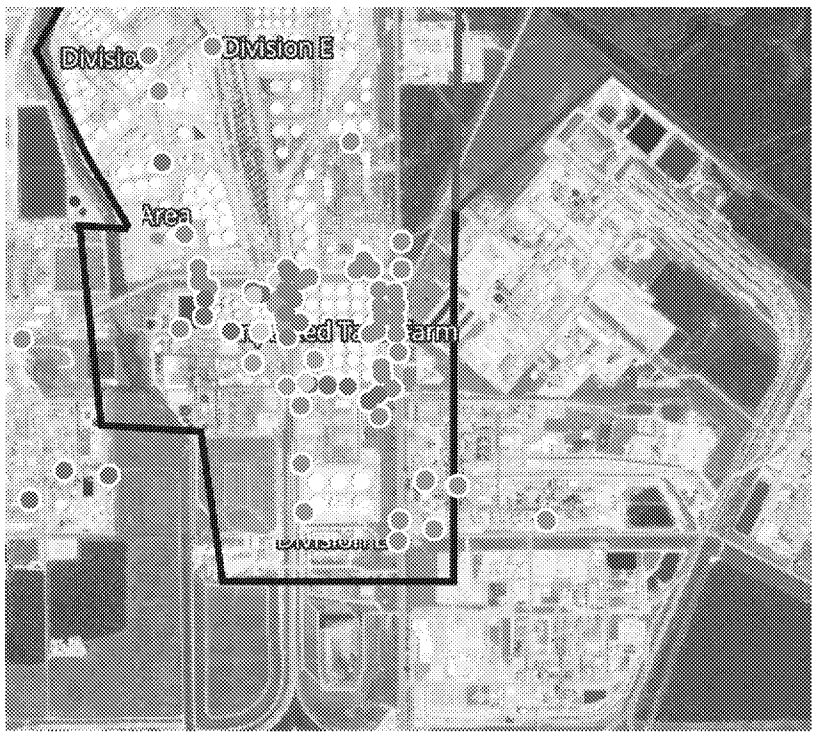


Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 9:00:00 AM to 4/12/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 09:00:03	2.91 ppm
	4/12/2019 09:02:26	0.96 ppm
	4/12/2019 09:04:09	1.96 ppm
	4/12/2019 09:07:30	0.21 ppm
	4/12/2019 09:06:49	0.47 ppm
	4/12/2019 09:08:47	1.22 ppm
	4/12/2019 09:10:27	1.33 ppm
	4/12/2019 09:11:58	0.02 ppm
	4/12/2019 09:12:09	4.26 ppm
	4/12/2019 09:13:34	0.18 ppm
	4/12/2019 09:12:52	0.61 ppm
	4/12/2019 09:09:30	2.48 ppm
	4/12/2019 09:20:14	0.05 ppm
	4/12/2019 09:15:45	0.96 ppm
	4/12/2019 09:00:21	0.56 ppm
	4/12/2019 09:20:53	0.02 ppm
	4/12/2019 09:31:48	0.06 ppm
	4/12/2019 09:44:01	0.02 ppm
	4/12/2019 09:42:39	0.49 ppm
	4/12/2019 09:44:43	0.54 ppm
	4/12/2019 09:41:21	1.68 ppm
	4/12/2019 09:46:05	0.02 ppm
	4/12/2019 09:53:55	0.38 ppm
	4/12/2019 09:50:26	0.18 ppm
	4/12/2019 09:57:02	0.56 ppm
	4/12/2019 09:16:02	1.27 ppm
Impacted Tank Farm	4/12/2019 09:03:59	20.70 ppm
	4/12/2019 09:10:06	1.30 ppm
	4/12/2019 09:17:30	5.43 ppm
	4/12/2019 09:36:24	1.38 ppm
	4/12/2019 09:23:14	2.68 ppm
	4/12/2019 09:47:27	2.28 ppm
Industrial Area	4/12/2019 09:02:57	0.23 ppm
	4/12/2019 09:15:59	0.20 ppm
	4/12/2019 09:32:45	0.12 ppm
	4/12/2019 09:54:09	0.13 ppm
	4/12/2019 09:57:15	0.09 ppm
Site Assessment	4/12/2019 09:05:30	0.28 ppm

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Reading Date
4/12/2019 9:00:00 AM to 4/12/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 09:47:27	Impacted Tank Farm	29.7326500,-95.0933280	https://www.google.com/maps/search/?api=1&query=29.7326500,-95.0933280	2.29 ppm
4/12/2019 09:41:21	Division E	29.7309290,-95.0943040	https://www.google.com/maps/search/?api=1&query=29.7309290,-95.0943040	1.48 ppm
4/12/2019 09:36:24	Impacted Tank Farm	29.7326640,-95.0935040	https://www.google.com/maps/search/?api=1&query=29.7326640,-95.0935040	1.38 ppm
4/12/2019 09:23:14	Impacted Tank Farm	29.7328180,-95.0931920	https://www.google.com/maps/search/?api=1&query=29.7328180,-95.0931920	2.68 ppm
4/12/2019 09:17:30	Impacted Tank Farm	29.7326120,-95.0930570	https://www.google.com/maps/search/?api=1&query=29.7326120,-95.0930570	5.43 ppm
4/12/2019 09:16:02	Division E	29.7324930,-95.0936160	https://www.google.com/maps/search/?api=1&query=29.7324930,-95.0936160	1.27 ppm
4/12/2019 09:12:09	Division E	29.7326550,-95.0932830	https://www.google.com/maps/search/?api=1&query=29.7326550,-95.0932830	4.26 ppm
4/12/2019 09:10:27	Division E	29.7303090,-95.0932670	https://www.google.com/maps/search/?api=1&query=29.7303090,-95.0932670	1.33 ppm
4/12/2019 09:10:06	Impacted Tank Farm	29.7310120,-95.0924110	https://www.google.com/maps/search/?api=1&query=29.7310120,-95.0924110	1.30 ppm
4/12/2019 09:09:30	Division E	29.7332920,-95.0932480	https://www.google.com/maps/search/?api=1&query=29.7332920,-95.0932480	2.48 ppm
4/12/2019 09:08:47	Division E	29.7321650,-95.0933740	https://www.google.com/maps/search/?api=1&query=29.7321650,-95.0933740	1.22 ppm
4/12/2019 09:04:09	Division E	29.7319130,-95.0933250	https://www.google.com/maps/search/?api=1&query=29.7319130,-95.0933250	1.96 ppm
4/12/2019 09:03:59	Impacted Tank Farm	29.7320050,-95.0926730	https://www.google.com/maps/search/?api=1&query=29.7320050,-95.0926730	20.70 ppm
4/12/2019 09:00:03	Division E	29.7316150,-95.0932470	https://www.google.com/maps/search/?api=1&query=29.7316150,-95.0932470	2.91 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/18/2019 1:04:21 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Report
Attachments: 20190418_0700_Benzene_Report.pdf; 20190418_0800_Benzene_Report.pdf

All,

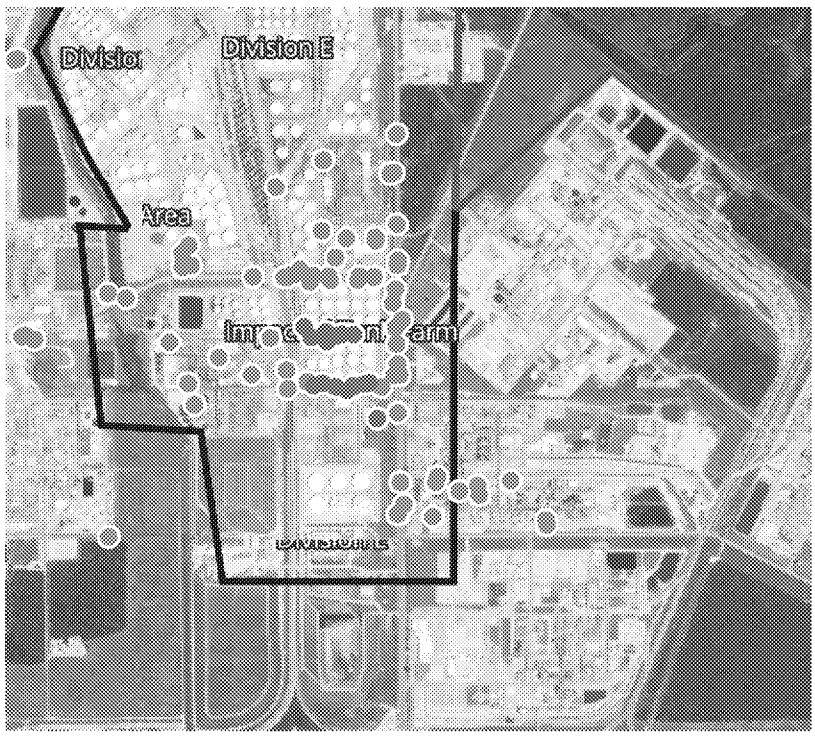
Please see the attached documents of benzene readings between 0600-0800. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 6:00:00 AM to 4/18/2019 7:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 06:13:18	0.1600 ppm
	4/18/2019 06:16:12	0.1000 ppm
	4/18/2019 06:15:34	0.2200 ppm
	4/18/2019 06:50:09	0.1400 ppm
	4/18/2019 06:48:53	0.1100 ppm
	4/18/2019 06:52:32	0.0900 ppm
	4/18/2019 06:53:32	0.0500 ppm
	4/18/2019 06:51:19	0.1300 ppm
	4/18/2019 06:58:46	0.3800 ppm
Impacted Tank Farm	4/18/2019 06:03:38	0.0600 ppm
	4/18/2019 06:06:15	0.2400 ppm
	4/18/2019 06:09:24	0.4400 ppm
	4/18/2019 06:13:38	0.3700 ppm
	4/18/2019 06:10:16	0.4600 ppm
	4/18/2019 06:04:32	0.1400 ppm
	4/18/2019 06:14:31	0.4000 ppm
	4/18/2019 06:07:42	0.2300 ppm
	4/18/2019 06:23:00	0.2500 ppm
	4/18/2019 06:23:17	0.2900 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 6:00:00 AM to 4/18/2019 7:00:00 AM

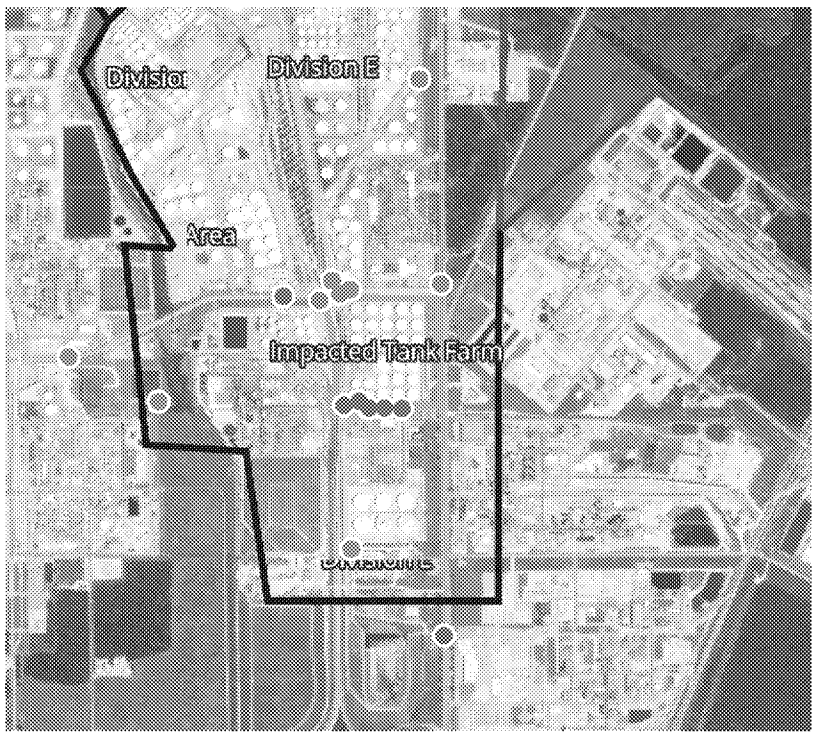
Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 7:00:00 AM to 4/18/2019 8:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 07:23:46	0.2000 ppm
	4/18/2019 07:38:01	0.1800 ppm
	4/18/2019 07:45:14	0.1300 ppm
	4/18/2019 07:42:28	0.2900 ppm
	4/18/2019 07:49:54	0.1000 ppm
	4/18/2019 07:52:28	0.1200 ppm
	4/18/2019 07:53:18	0.0300 ppm
	4/18/2019 07:55:30	0.0300 ppm
Industrial Area	4/18/2019 07:07:25	0.0700 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 7:00:00 AM to 4/18/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/11/2019 7:18:14 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]; Craig.j.groman@uscg.mil [Craig.j.groman@uscg.mil]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1400 Benzene Report
Attachments: 20190411_1300_benzene_report.pdf; 20190411_1400_benzene_report.pdf

All,

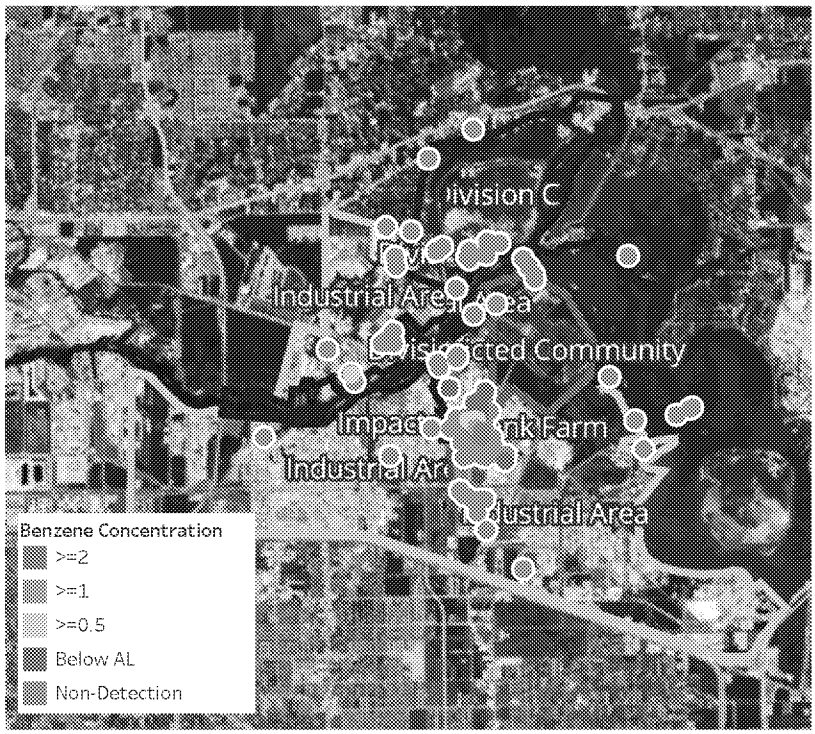
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

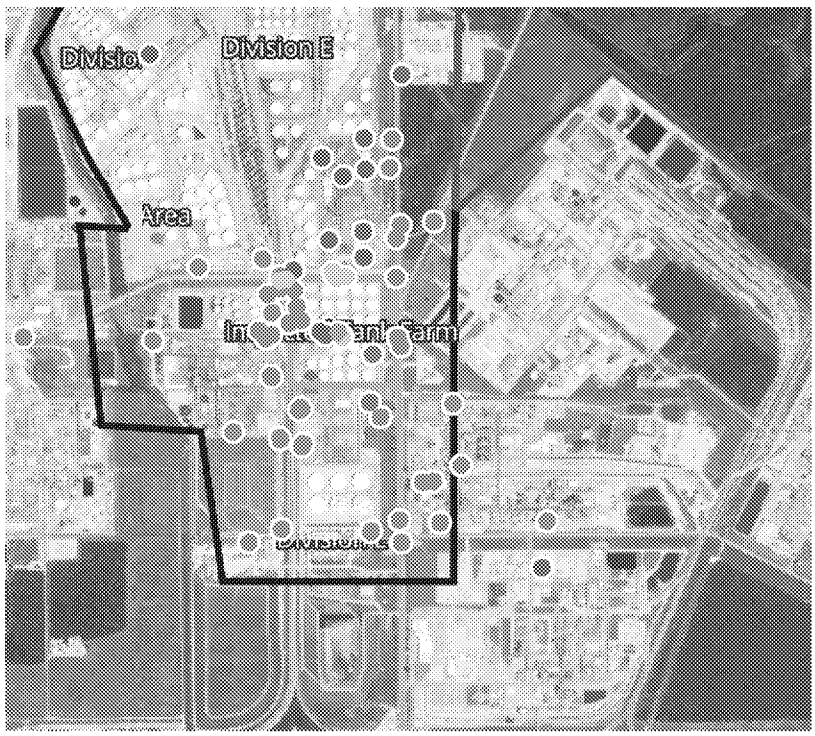
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 12:00:00 PM to 4/11/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division A	4/11/2019 12:59:12	0.725 ppm
Division E	4/11/2019 12:01:55	0.040 ppm
	4/11/2019 12:01:37	0.050 ppm
	4/11/2019 12:14:31	0.250 ppm
	4/11/2019 12:41:07	0.150 ppm
	4/11/2019 12:01:40	0.030 ppm
	4/11/2019 12:39:32	0.050 ppm
	4/11/2019 12:32:31	0.350 ppm
	4/11/2019 12:55:55	0.250 ppm
	4/11/2019 12:55:19	0.310 ppm
	4/11/2019 12:59:00	0.870 ppm
	4/11/2019 12:51:44	0.430 ppm
	4/11/2019 12:55:44	0.190 ppm
	4/11/2019 12:48:21	0.547 ppm
	4/11/2019 12:59:26	0.100 ppm
Impacted Tank Farm	4/11/2019 12:01:40	0.720 ppm
	4/11/2019 12:34:00	0.170 ppm
	4/11/2019 12:40:59	0.700 ppm
	4/11/2019 12:43:00	0.030 ppm
	4/11/2019 12:48:09	1.210 ppm
	4/11/2019 12:54:02	2.750 ppm
	4/11/2019 12:58:22	8.170 ppm
	4/11/2019 12:55:23	0.530 ppm
	4/11/2019 12:22:39	0.730 ppm
	4/11/2019 12:42:29	0.220 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 12:00:00 PM to 4/11/2019 1:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

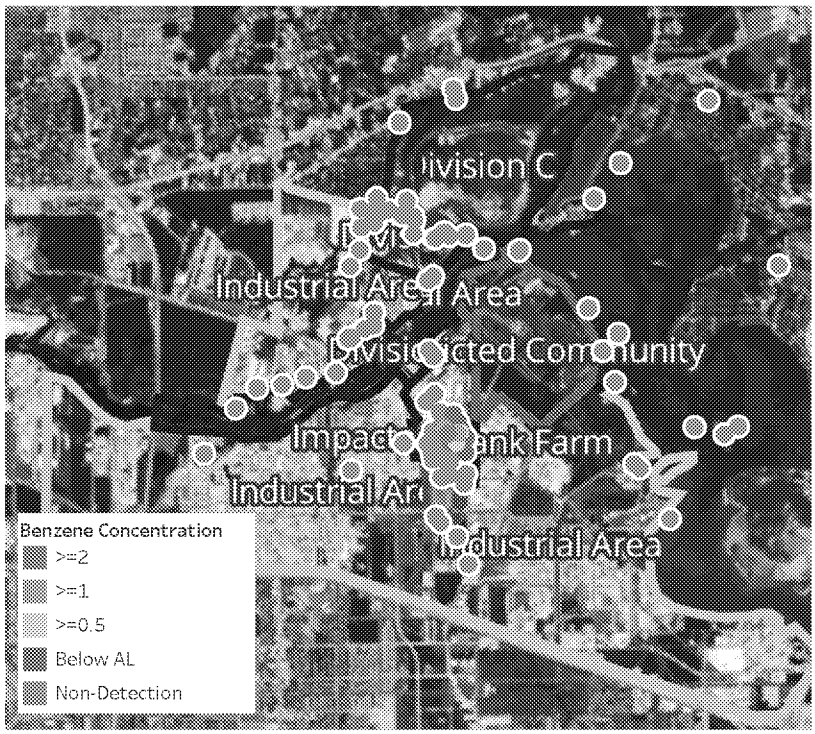
Recent Benzene Detections Greater than 1.00 ppm

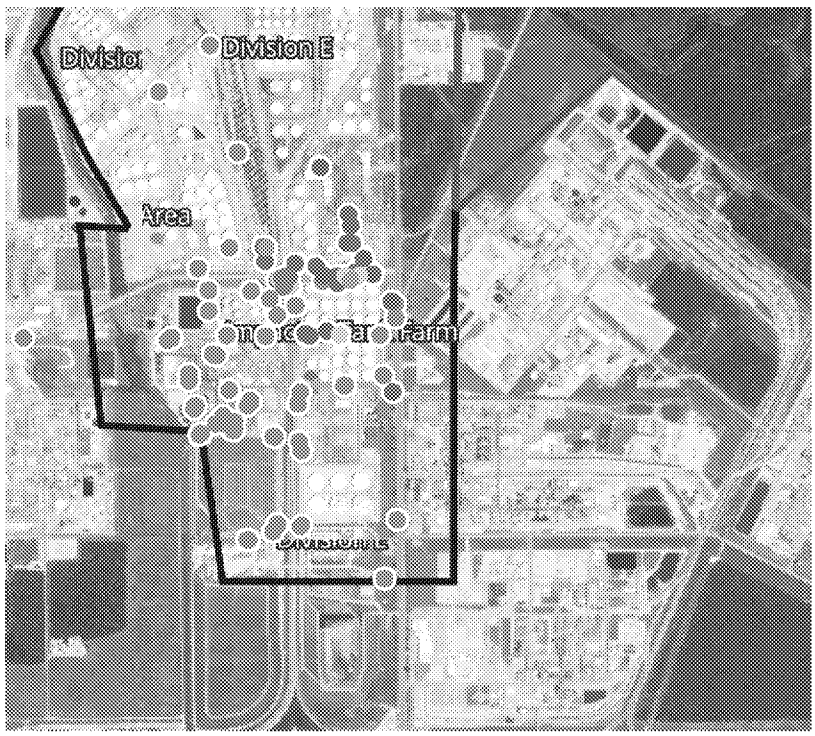
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 12:58:22	Impacted Tank Farm	29.7511540,-95.0906590	https://www.google.com/maps/search/?api=1&query=29.7511540,-95.0906590	8.170 ppm
4/11/2019 12:54:02	Impacted Tank Farm	29.7298890,-95.0907430	https://www.google.com/maps/search/?api=1&query=29.7298890,-95.0907430	2.750 ppm
4/11/2019 12:48:08	Impacted Tank Farm	29.7317410,-95.0917070	https://www.google.com/maps/search/?api=1&query=29.7317410,-95.0917070	1.210 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 1:00:00 PM to 4/11/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 13:01:22	0.030 ppm
	4/11/2019 13:08:50	0.040 ppm
	4/11/2019 13:04:14	1.180 ppm
	4/11/2019 13:03:18	0.410 ppm
	4/11/2019 13:06:35	2.270 ppm
	4/11/2019 13:02:55	0.240 ppm
	4/11/2019 13:08:10	0.490 ppm
	4/11/2019 13:11:02	0.170 ppm
	4/11/2019 13:20:54	1.120 ppm
	4/11/2019 13:19:04	0.060 ppm
	4/11/2019 13:22:34	0.180 ppm
	4/11/2019 13:23:13	0.130 ppm
	4/11/2019 13:24:25	0.250 ppm
	4/11/2019 13:14:23	4.760 ppm
	4/11/2019 13:15:57	2.550 ppm
	4/11/2019 13:18:45	3.680 ppm
	4/11/2019 13:04:09	1.725 ppm
	4/11/2019 13:28:19	2.910 ppm
	4/11/2019 13:34:59	0.225 ppm
	4/11/2019 13:33:10	2.170 ppm
	4/11/2019 13:40:46	2.970 ppm
	4/11/2019 13:51:52	0.260 ppm
	4/11/2019 13:56:54	0.010 ppm
	4/11/2019 13:55:10	0.050 ppm
	4/11/2019 13:58:05	0.460 ppm
	4/11/2019 13:42:49	6.280 ppm
	4/11/2019 13:45:05	7.720 ppm
	4/11/2019 13:55:01	8.390 ppm
Impacted Tank Farm	4/11/2019 13:01:22	1.270 ppm
	4/11/2019 13:02:41	0.100 ppm
	4/11/2019 13:02:46	0.050 ppm
	4/11/2019 13:02:35	0.325 ppm
	4/11/2019 13:14:02	0.410 ppm
	4/11/2019 13:22:20	0.150 ppm
	4/11/2019 13:23:25	0.100 ppm
	4/11/2019 13:30:50	0.570 ppm
	4/11/2019 13:44:11	0.150 ppm
	4/11/2019 13:47:18	0.600 ppm
	4/11/2019 13:51:02	0.640 ppm
	4/11/2019 13:56:18	0.030 ppm
	4/11/2019 13:49:32	0.100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 1:00:00 PM to 4/11/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 13:55:01	Division E	29.7332200,-95.0933380	https://www.google.com/maps/search/?api=1&query=29.7332200,-95.0933380	8.390 ppm
4/11/2019 13:45:05	Division E	29.7332050,-95.0932800	https://www.google.com/maps/search/?api=1&query=29.7332050,-95.0932800	7.720 ppm
4/11/2019 13:42:49	Division E	29.7331940,-95.0931920	https://www.google.com/maps/search/?api=1&query=29.7331940,-95.0931920	6.280 ppm
4/11/2019 13:40:46	Division E	29.7330830,-95.0933120	https://www.google.com/maps/search/?api=1&query=29.7330830,-95.0933120	2.970 ppm
4/11/2019 13:33:10	Division E	29.7331590,-95.0933140	https://www.google.com/maps/search/?api=1&query=29.7331590,-95.0933140	2.170 ppm
4/11/2019 13:28:19	Division E	29.7329490,-95.0933690	https://www.google.com/maps/search/?api=1&query=29.7329490,-95.0933690	2.910 ppm
4/11/2019 13:20:54	Division E	29.7329830,-95.0939040	https://www.google.com/maps/search/?api=1&query=29.7329830,-95.0939040	1.120 ppm
4/11/2019 13:18:45	Division E	29.7331170,-95.0934010	https://www.google.com/maps/search/?api=1&query=29.7331170,-95.0934010	3.690 ppm
4/11/2019 13:15:57	Division E	29.7331110,-95.0933160	https://www.google.com/maps/search/?api=1&query=29.7331110,-95.0933160	2.550 ppm
4/11/2019 13:14:23	Division E	29.7330430,-95.0933250	https://www.google.com/maps/search/?api=1&query=29.7330430,-95.0933250	4.760 ppm
4/11/2019 13:06:35	Division E	29.7331760,-95.0934240	https://www.google.com/maps/search/?api=1&query=29.7331760,-95.0934240	2.270 ppm
4/11/2019 13:04:14	Division E	29.7332130,-95.0933420	https://www.google.com/maps/search/?api=1&query=29.7332130,-95.0933420	3.180 ppm
4/11/2019 13:04:09	Division E	29.7330950,-95.0933590	https://www.google.com/maps/search/?api=1&query=29.7330950,-95.0933590	1.735 ppm
4/11/2019 13:01:22	Impacted Tank Farm	29.7351260,-95.0913260	https://www.google.com/maps/search/?api=1&query=29.7351260,-95.0913260	1.270 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/11/2019 3:49:40 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; Travis Sartain [tsartain@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190411_0900_benzene_report.pdf; 20190411_1000_benzene_report.pdf

All,

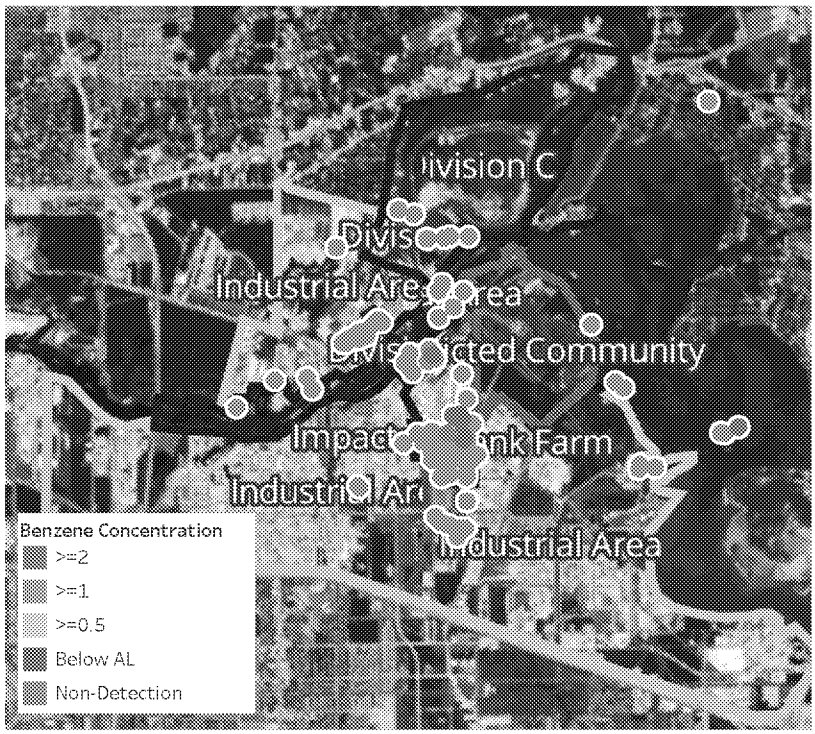
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

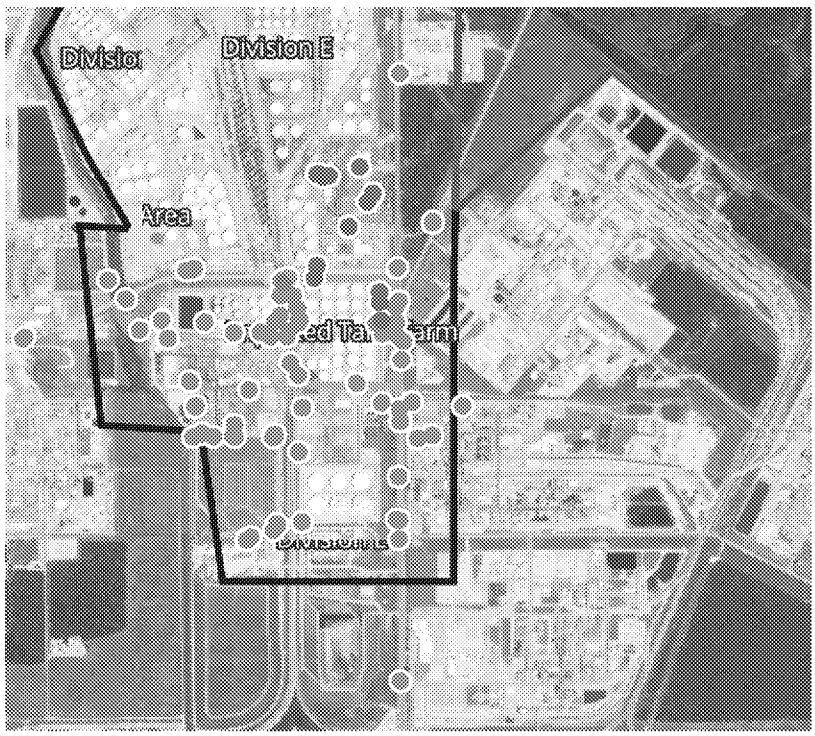
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 8:00:00 AM to 4/11/2019 9:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/11/2019 08:29:29	0.030 ppm
Division E	4/11/2019 08:03:31	0.175 ppm
	4/11/2019 08:16:04	0.175 ppm
	4/11/2019 08:16:43	0.150 ppm
	4/11/2019 08:30:03	0.170 ppm
	4/11/2019 08:08:32	0.050 ppm
	4/11/2019 08:34:43	0.120 ppm
	4/11/2019 08:19:17	0.680 ppm
	4/11/2019 08:37:55	1.320 ppm
	4/11/2019 08:41:46	0.175 ppm
	4/11/2019 08:50:31	0.160 ppm
	4/11/2019 08:50:38	0.200 ppm
	4/11/2019 08:56:08	0.230 ppm
Impacted Tank Farm	4/11/2019 08:45:13	0.180 ppm
	4/11/2019 08:41:15	0.250 ppm
	4/11/2019 08:35:16	0.200 ppm
	4/11/2019 08:43:46	6.140 ppm
	4/11/2019 08:55:54	1.200 ppm
Over Water (No Division)	4/11/2019 08:31:28	0.100 ppm

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Reading Date
4/11/2019 8:00:00 AM to 4/11/2019 9:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

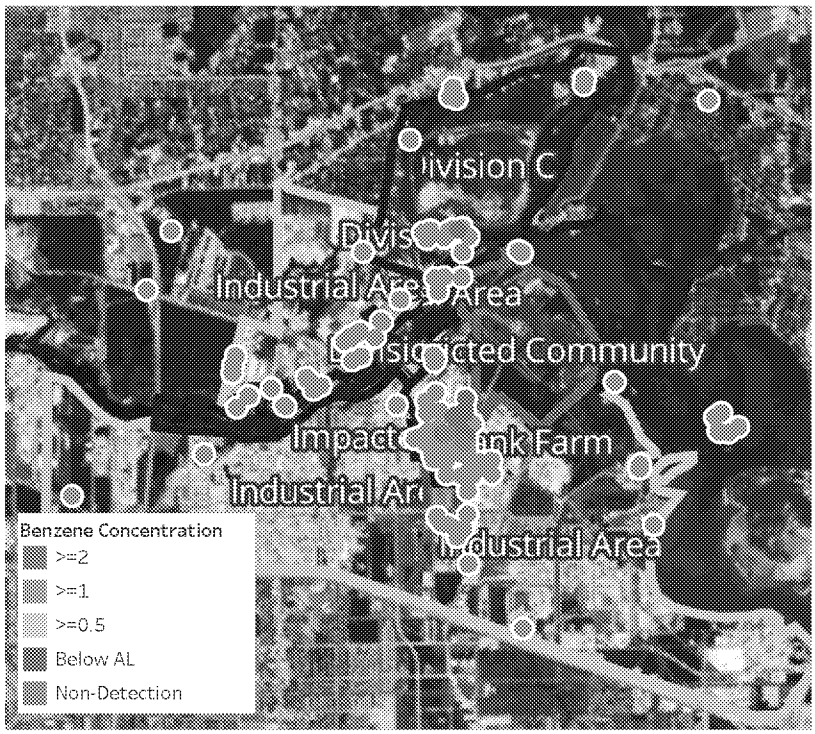
Recent Benzene Detections Greater than 1.00 ppm

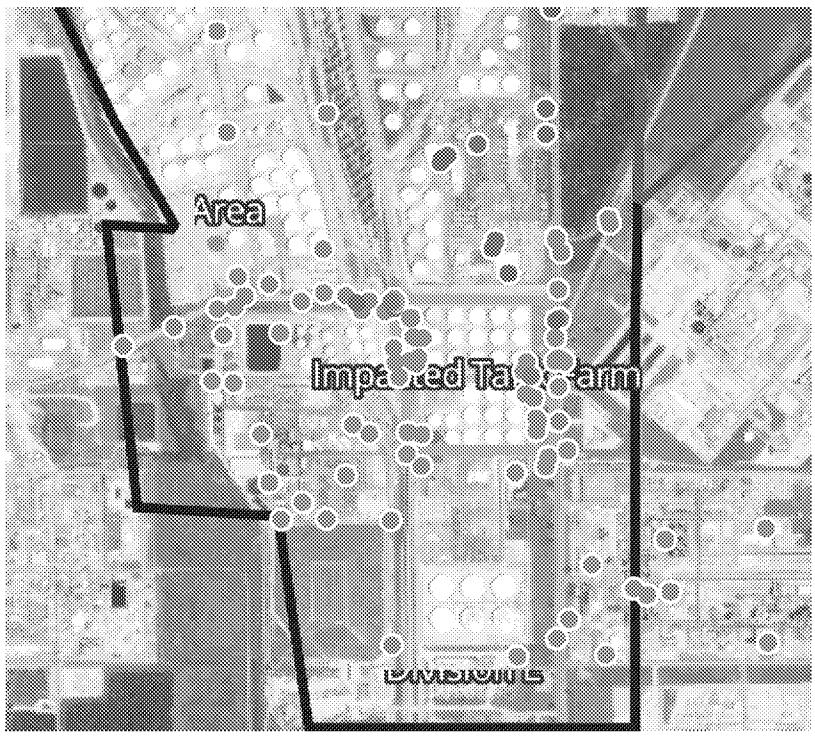
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 08:55:54	Impacted Tank Farm	29.7531710,-95.0932270	https://www.google.com/maps/search/?api=1&query=29.7531710,-95.0932270	1.690 ppm
4/11/2019 08:43:46	Impacted Tank Farm	29.7530510,-95.0933900	https://www.google.com/maps/search/?api=1&query=29.7530510,-95.0933900	6.140 ppm
4/11/2019 08:37:55	Division E	29.7551100,-95.0934400	https://www.google.com/maps/search/?api=1&query=29.7551100,-95.0934400	1.320 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 9:00:00 AM to 4/11/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/11/2019 09:41:48	0.120 ppm
Division E	4/11/2019 09:00:47	0.300 ppm
	4/11/2019 09:05:19	0.225 ppm
	4/11/2019 09:11:59	0.370 ppm
	4/11/2019 09:14:52	0.340 ppm
	4/11/2019 09:15:01	1.020 ppm
	4/11/2019 09:10:20	0.900 ppm
	4/11/2019 09:16:43	0.030 ppm
	4/11/2019 09:24:21	0.350 ppm
	4/11/2019 09:28:15	0.020 ppm
	4/11/2019 09:32:36	0.050 ppm
	4/11/2019 09:34:56	0.120 ppm
	4/11/2019 09:45:04	1.875 ppm
	4/11/2019 09:40:04	0.150 ppm
	4/11/2019 09:33:24	1.175 ppm
	4/11/2019 09:45:01	0.175 ppm
	4/11/2019 09:47:26	0.210 ppm
	4/11/2019 09:53:22	3.050 ppm
	4/11/2019 09:45:26	0.060 ppm
Impacted Tank Farm	4/11/2019 09:01:34	4.150 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

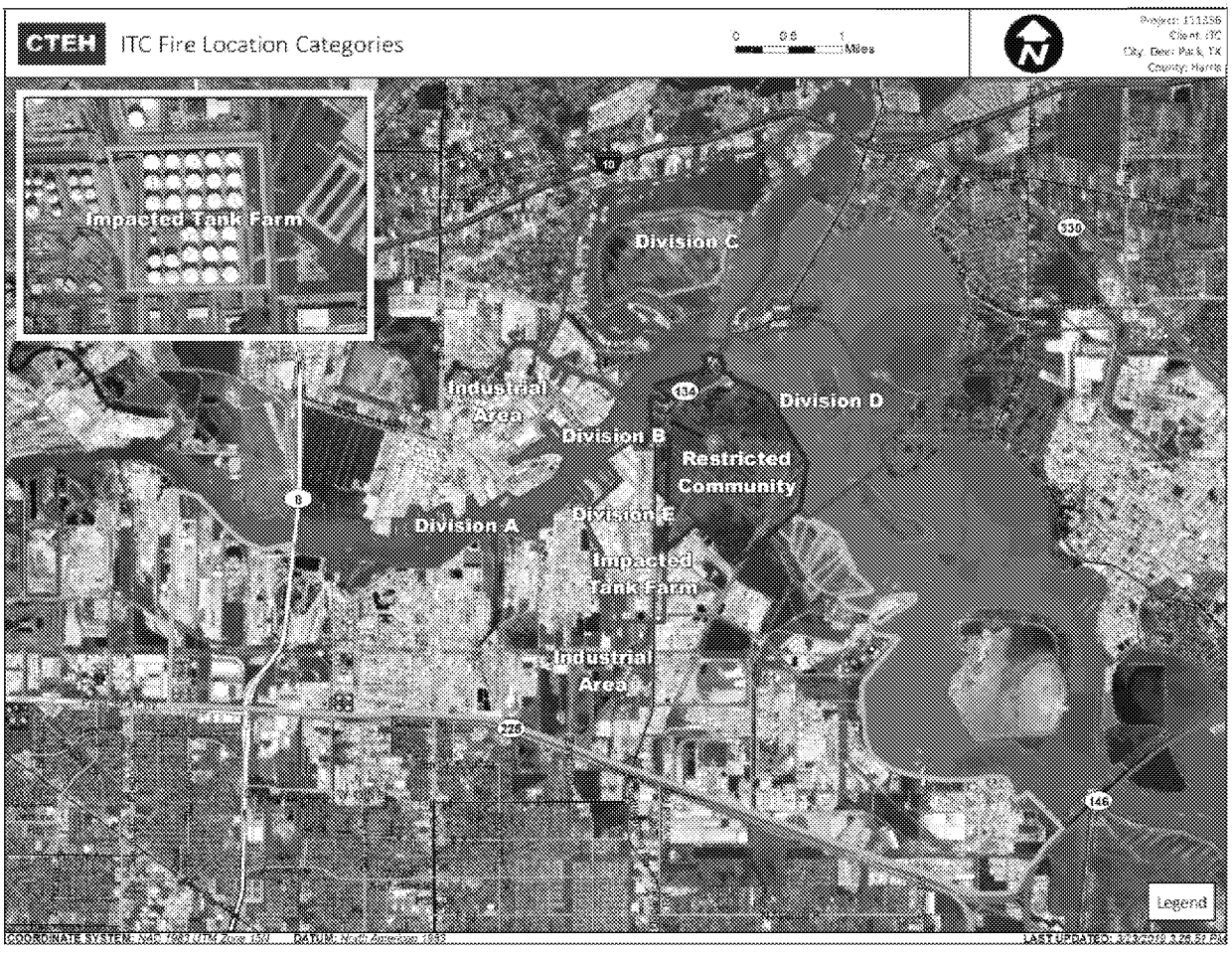
Reading Date
4/11/2019 9:00:00 AM to 4/11/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 09:53:22	Division E	29.7331200,-95.0934610	https://www.google.com/maps/search/?api=1&query=29.7331200,-95.0934610	3.050 ppm
4/11/2019 09:45:04	Division E	29.7330870,-95.0934060	https://www.google.com/maps/search/?api=1&query=29.7330870,-95.0934060	1.375 ppm
4/11/2019 09:33:24	Division E	29.7331250,-95.0933550	https://www.google.com/maps/search/?api=1&query=29.7331250,-95.0933550	1.175 ppm
4/11/2019 09:15:01	Division E	29.7331780,-95.0934040	https://www.google.com/maps/search/?api=1&query=29.7331780,-95.0934040	1.020 ppm
4/11/2019 09:01:34	Impacted Tank Farm	29.7317300,-95.0904400	https://www.google.com/maps/search/?api=1&query=29.7317300,-95.0904400	4.150 ppm



Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/18/2019 9:04:30 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Report
Attachments: 20190418_1600_Benzene_Report.pdf; 20190418_1500_Benzene_Report.pdf

All,

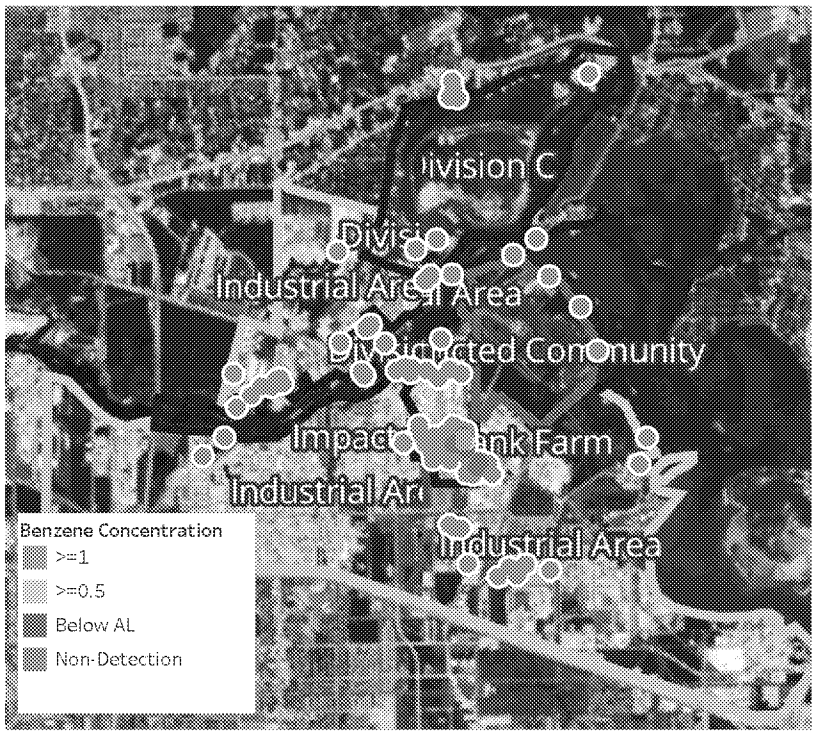
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

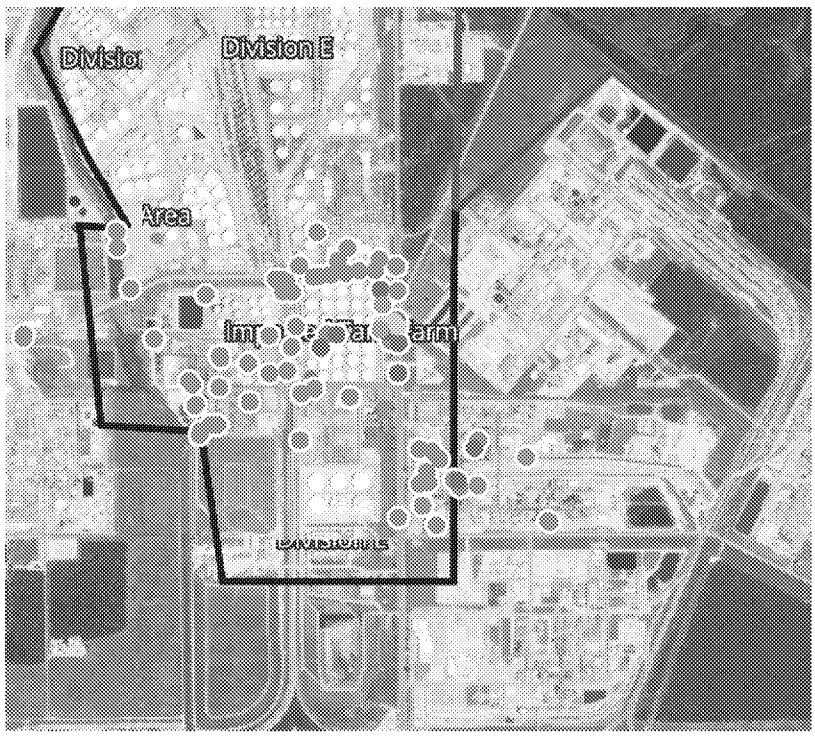
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 2:00:00 PM to 4/18/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 14:16:14	0.490 ppm
	4/18/2019 14:20:54	0.190 ppm
	4/18/2019 14:22:26	0.720 ppm
	4/18/2019 14:42:10	0.530 ppm
	4/18/2019 14:47:44	0.260 ppm
Impacted Tank Farm	4/18/2019 14:34:00	0.050 ppm
	4/18/2019 14:37:38	0.425 ppm
	4/18/2019 14:45:23	0.075 ppm
	4/18/2019 14:46:20	0.160 ppm
	4/18/2019 14:42:06	1.150 ppm
	4/18/2019 14:38:36	0.860 ppm
	4/18/2019 14:53:43	1.600 ppm
Industrial Area	4/18/2019 14:04:26	0.020 ppm
	4/18/2019 14:22:39	0.030 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 2:00:00 PM to 4/18/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

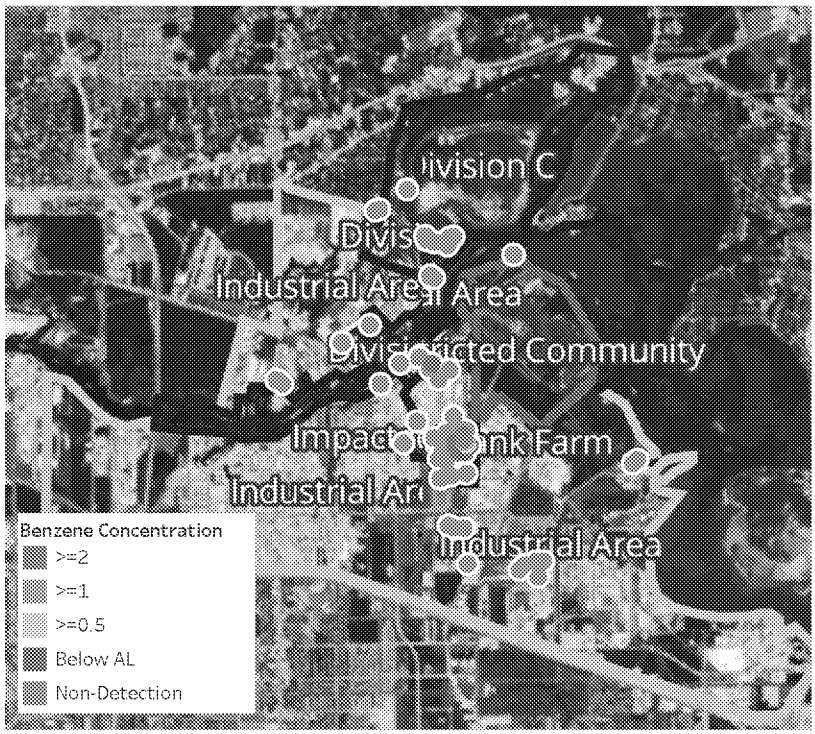
Recent Benzene Detections Greater than 1.00 ppm

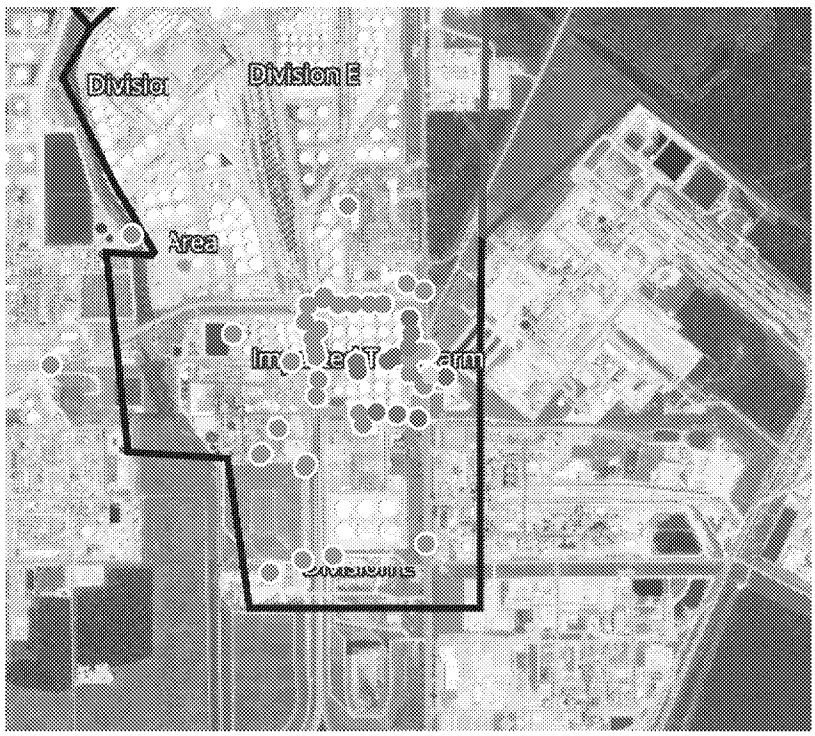
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 14:53:43	Impacted Tank Farm	29.7516130, -95.0904110	https://www.google.com/maps/search/?api=1&query=29.7516130,-95.0904110	1.0000 ppm
4/18/2019 14:42:06	Impacted Tank Farm	29.7324750, -95.0903540	https://www.google.com/maps/search/?api=1&query=29.7324750,-95.0903540	1.1500 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 3:00:00 PM to 4/18/2019 4:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/18/2019 15:31:40	0.190 ppm
Division E	4/18/2019 15:04:50	0.030 ppm
	4/18/2019 15:07:24	0.080 ppm
	4/18/2019 15:09:02	0.080 ppm
	4/18/2019 15:13:19	0.090 ppm
	4/18/2019 15:21:12	0.740 ppm
	4/18/2019 15:40:17	0.960 ppm
	4/18/2019 15:40:37	1.360 ppm
Impacted Tank Farm	4/18/2019 15:16:16	0.325 ppm
	4/18/2019 15:19:26	0.350 ppm
	4/18/2019 15:28:47	1.125 ppm
	4/18/2019 15:36:05	0.125 ppm
	4/18/2019 15:34:25	2.900 ppm
	4/18/2019 15:40:16	0.160 ppm
	4/18/2019 15:30:07	2.130 ppm
	4/18/2019 15:49:46	0.025 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 3:00:00 PM to 4/18/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 15:40:37	Division E	29.7519540,-95.0899750	https://www.google.com/maps/search/?api=1&query=29.7519540,-95.0899750	1.350 ppm
4/18/2019 15:34:25	Impacted Tank Farm	29.7324320,-95.0903020	https://www.google.com/maps/search/?api=1&query=29.7324320,-95.0903020	2.900 ppm
4/18/2019 15:30:07	Impacted Tank Farm	29.7320660,-95.0903840	https://www.google.com/maps/search/?api=1&query=29.7320660,-95.0903840	2.130 ppm
4/18/2019 15:28:47	Impacted Tank Farm	29.7317440,-95.0903610	https://www.google.com/maps/search/?api=1&query=29.7317440,-95.0903610	1.125 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/17/2019 9:09:16 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Report
Attachments: 20190417_1600_Benzene_Report.pdf; 20190417_1500_Benzene_Report.pdf

All,

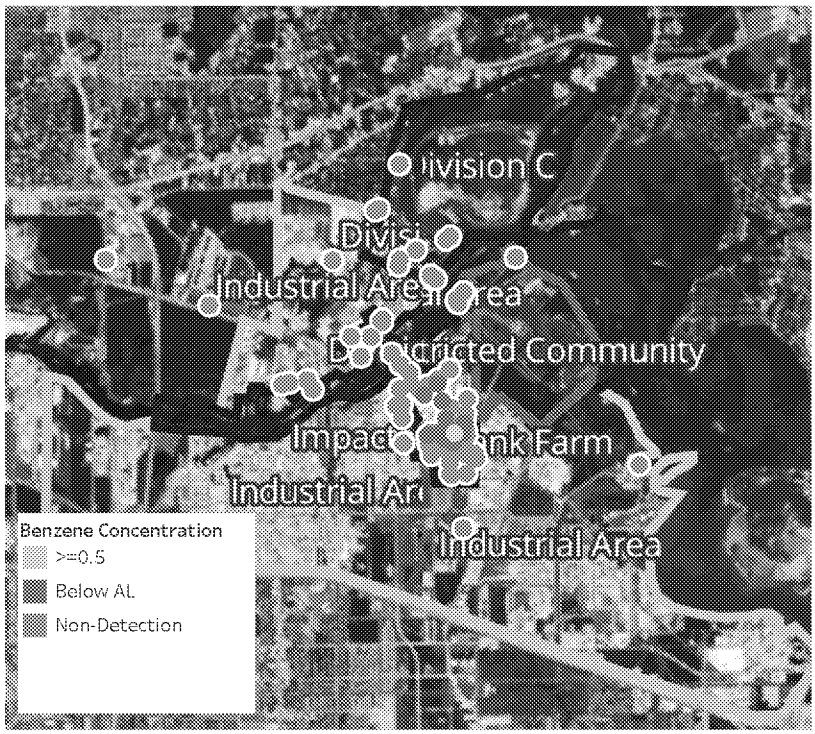
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

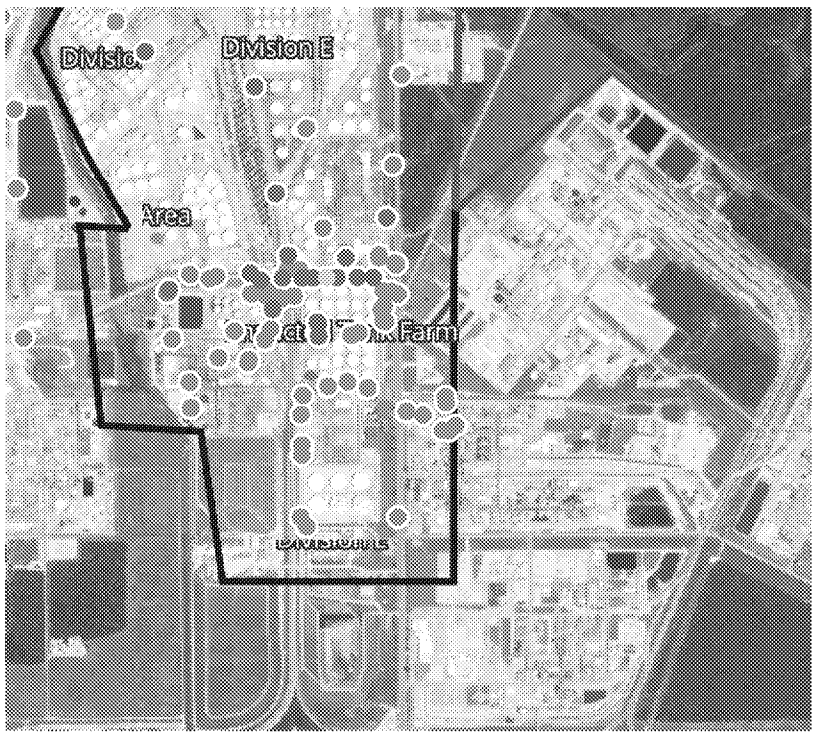
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 2:00:00 PM to 4/17/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 14:02:09	0.4500 ppm
	4/17/2019 14:05:43	0.2100 ppm
	4/17/2019 14:04:50	0.0400 ppm
	4/17/2019 14:08:19	0.1100 ppm
	4/17/2019 14:10:44	0.1200 ppm
	4/17/2019 14:13:13	0.2900 ppm
	4/17/2019 14:15:16	0.0600 ppm
	4/17/2019 14:25:30	0.0300 ppm
	4/17/2019 14:12:08	0.0300 ppm
	4/17/2019 14:14:17	0.0300 ppm
	4/17/2019 14:25:44	0.0300 ppm
	4/17/2019 14:47:06	0.0200 ppm
	4/17/2019 14:39:34	0.0300 ppm
	4/17/2019 14:56:31	0.1300 ppm
	4/17/2019 14:46:47	0.0800 ppm
	4/17/2019 14:59:04	0.0300 ppm
	4/17/2019 14:41:35	0.0300 ppm
	4/17/2019 14:50:21	0.0900 ppm
Impacted Tank Farm	4/17/2019 14:12:02	0.2600 ppm
	4/17/2019 14:36:28	0.0300 ppm
	4/17/2019 14:53:13	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 2:00:00 PM to 4/17/2019 3:00:00 PM

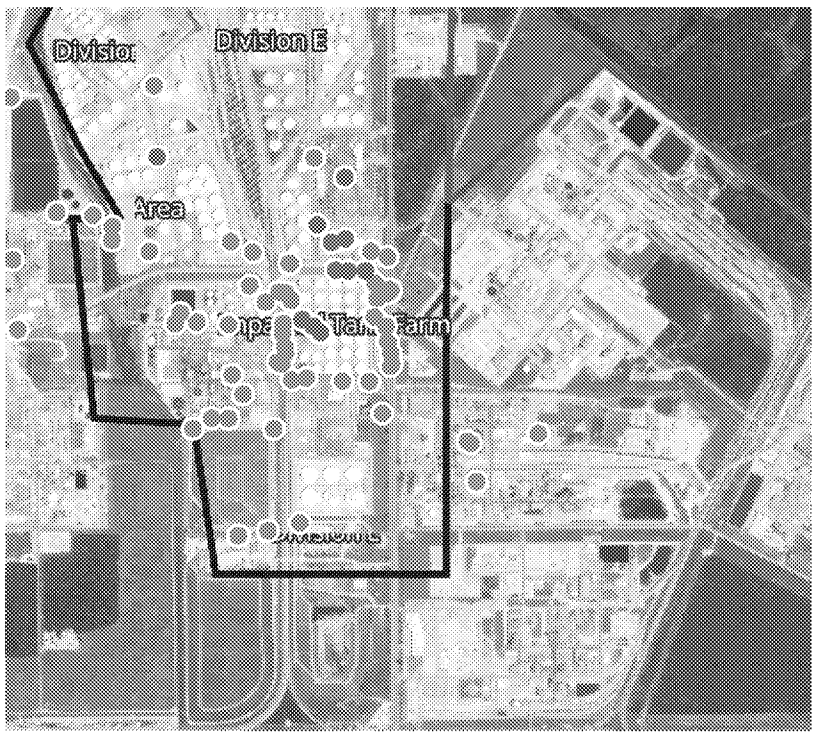
Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 3:00:00 PM to 4/17/2019 4:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 15:01:23	0.4100 ppm
	4/17/2019 15:03:36	0.4700 ppm
	4/17/2019 15:06:42	0.1100 ppm
	4/17/2019 15:33:17	0.0100 ppm
	4/17/2019 15:43:48	0.0500 ppm
	4/17/2019 15:49:06	0.1300 ppm
	4/17/2019 15:52:17	0.3500 ppm
	4/17/2019 15:55:09	0.1200 ppm
Impacted Tank Farm	4/17/2019 15:04:57	0.0300 ppm
	4/17/2019 15:38:53	0.0400 ppm
	4/17/2019 15:53:43	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 3:00:00 PM to 4/17/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/12/2019 1:15:56 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Report
Attachments: 20190412_0700_benzene_report.pdf; 20190412_0800_benzene_report.pdf

All,

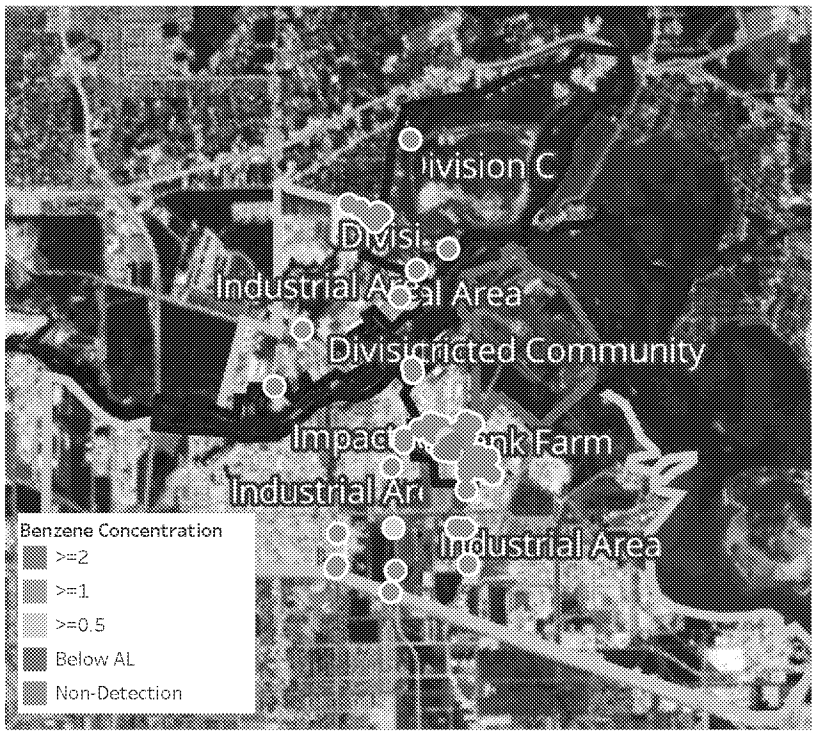
Please see the attached documents of benzene readings between 0600-0800. Let me know if you have any questions. Thanks!

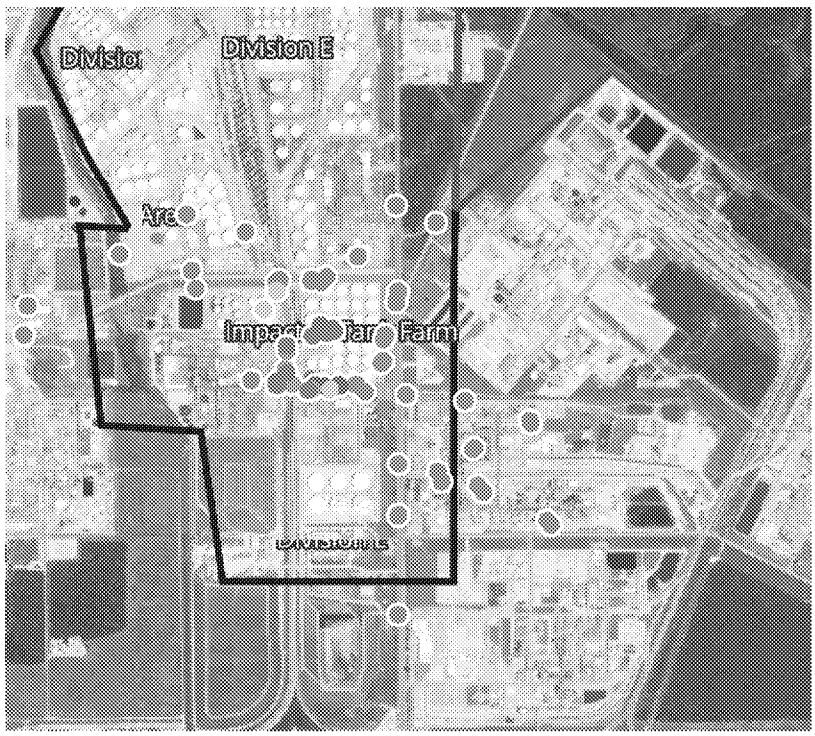
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 6:00:00 AM to 4/12/2019 7:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 06:19:33	1.35 ppm
	4/12/2019 06:22:29	2.32 ppm
	4/12/2019 06:28:33	1.32 ppm
	4/12/2019 06:18:08	0.30 ppm
	4/12/2019 06:21:14	0.66 ppm
	4/12/2019 06:23:22	1.06 ppm
	4/12/2019 06:29:08	3.56 ppm
	4/12/2019 06:31:47	0.64 ppm
	4/12/2019 06:34:41	7.90 ppm
	4/12/2019 06:32:10	1.68 ppm
	4/12/2019 06:37:10	0.93 ppm
	4/12/2019 06:40:05	0.63 ppm
	4/12/2019 06:50:04	4.35 ppm
	4/12/2019 06:54:52	5.03 ppm
	4/12/2019 06:56:29	7.33 ppm
	4/12/2019 06:50:27	0.41 ppm
	4/12/2019 06:55:41	0.44 ppm
	4/12/2019 06:53:16	0.39 ppm
Impacted Tank Farm	4/12/2019 06:23:00	5.06 ppm
	4/12/2019 06:23:21	4.67 ppm
	4/12/2019 06:28:26	26.76 ppm
	4/12/2019 06:26:19	27.85 ppm
	4/12/2019 06:25:59	16.80 ppm
	4/12/2019 06:27:59	25.00 ppm
Industrial Area	4/12/2019 06:52:17	0.51 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 6:00:00 AM to 4/12/2019 7:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

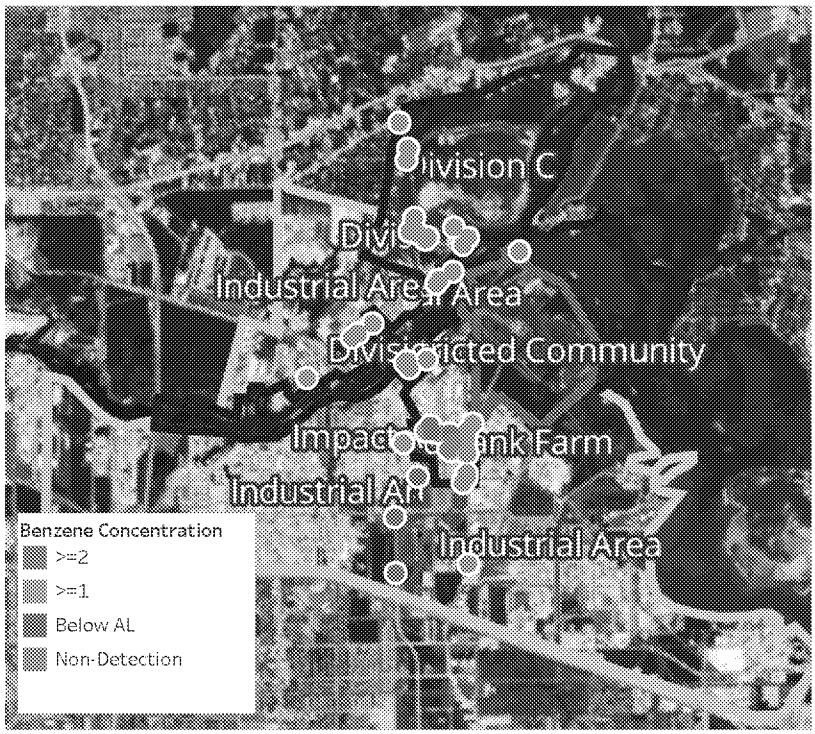
Recent Benzene Detections Greater than 1.00 ppm

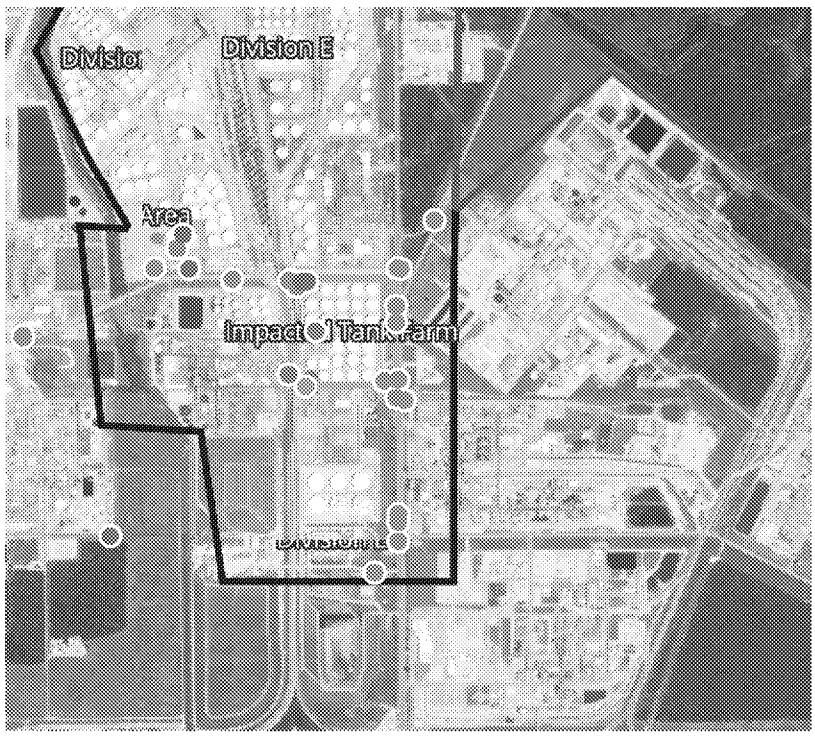
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 06:56:29	Division E	29.7303380,-95.0935560	https://www.google.com/maps/search/?api=1&query=29.7303380,-95.0935560	7.33 ppm
4/12/2019 06:54:52	Division E	29.7304360,-95.0935890	https://www.google.com/maps/search/?api=1&query=29.7304360,-95.0935890	5.03 ppm
4/12/2019 06:50:04	Division E	29.7302450,-95.0935980	https://www.google.com/maps/search/?api=1&query=29.7302450,-95.0935980	4.36 ppm
4/12/2019 06:34:41	Division E	29.7312820,-95.0932830	https://www.google.com/maps/search/?api=1&query=29.7312820,-95.0932830	7.90 ppm
4/12/2019 06:32:10	Division E	29.7307670,-95.0933080	https://www.google.com/maps/search/?api=1&query=29.7307670,-95.0933080	1.68 ppm
4/12/2019 06:29:08	Division E	29.7302080,-95.0926240	https://www.google.com/maps/search/?api=1&query=29.7302080,-95.0926240	3.56 ppm
4/12/2019 06:28:33	Division E	29.7305780,-95.0931020	https://www.google.com/maps/search/?api=1&query=29.7305780,-95.0931020	1.32 ppm
4/12/2019 06:28:26	Impacted Tank Farm	29.7317550,-95.0919500	https://www.google.com/maps/search/?api=1&query=29.7317550,-95.0919500	26.76 ppm
4/12/2019 06:27:59	Impacted Tank Farm	29.7318500,-95.0918830	https://www.google.com/maps/search/?api=1&query=29.7318500,-95.0918830	25.09 ppm
4/12/2019 06:26:19	Impacted Tank Farm	29.7317720,-95.0919230	https://www.google.com/maps/search/?api=1&query=29.7317720,-95.0919230	27.85 ppm
4/12/2019 06:25:59	Impacted Tank Farm	29.7317200,-95.0920510	https://www.google.com/maps/search/?api=1&query=29.7317200,-95.0920510	18.90 ppm
4/12/2019 06:23:22	Division E	29.7302340,-95.0925050	https://www.google.com/maps/search/?api=1&query=29.7302340,-95.0925050	1.06 ppm
4/12/2019 06:23:21	Impacted Tank Farm	29.7319330,-95.0922520	https://www.google.com/maps/search/?api=1&query=29.7319330,-95.0922520	4.67 ppm
4/12/2019 06:23:00	Impacted Tank Farm	29.7316450,-95.0924940	https://www.google.com/maps/search/?api=1&query=29.7316450,-95.0924940	5.06 ppm
4/12/2019 06:22:29	Division E	29.7306650,-95.0932770	https://www.google.com/maps/search/?api=1&query=29.7306650,-95.0932770	2.32 ppm
4/12/2019 06:19:33	Division E	29.7312370,-95.0932610	https://www.google.com/maps/search/?api=1&query=29.7312370,-95.0932610	1.35 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 7:00:00 AM to 4/12/2019 8:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 07:06:11	1.01 ppm
	4/12/2019 07:08:22	5.06 ppm
	4/12/2019 07:55:38	0.04 ppm
	4/12/2019 07:58:39	0.03 ppm
Impacted Tank Farm	4/12/2019 07:05:02	0.03 ppm
	4/12/2019 07:08:56	0.11 ppm
	4/12/2019 07:49:04	19.70 ppm
Industrial Area	4/12/2019 07:08:52	0.13 ppm
	4/12/2019 07:15:54	0.40 ppm
	4/12/2019 07:44:49	0.27 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 7:00:00 AM to 4/12/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 07:49:04	Impacted Tank Farm	29.7517670,-95.0923910	https://www.google.com/maps/search/?api=1&query=29.7517670,-95.0923910	19.70 ppm
4/12/2019 07:08:22	Division E	29.7306230,-95.0932160	https://www.google.com/maps/search/?api=1&query=29.7306230,-95.0932160	5.06 ppm
4/12/2019 07:06:11	Division E	29.7302090,-95.0927000	https://www.google.com/maps/search/?api=1&query=29.7302090,-95.0927000	1.01 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/18/2019 11:09:08 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190418_0500_benzene_report.pdf; 20190418_0600_benzene_report.pdf

All,

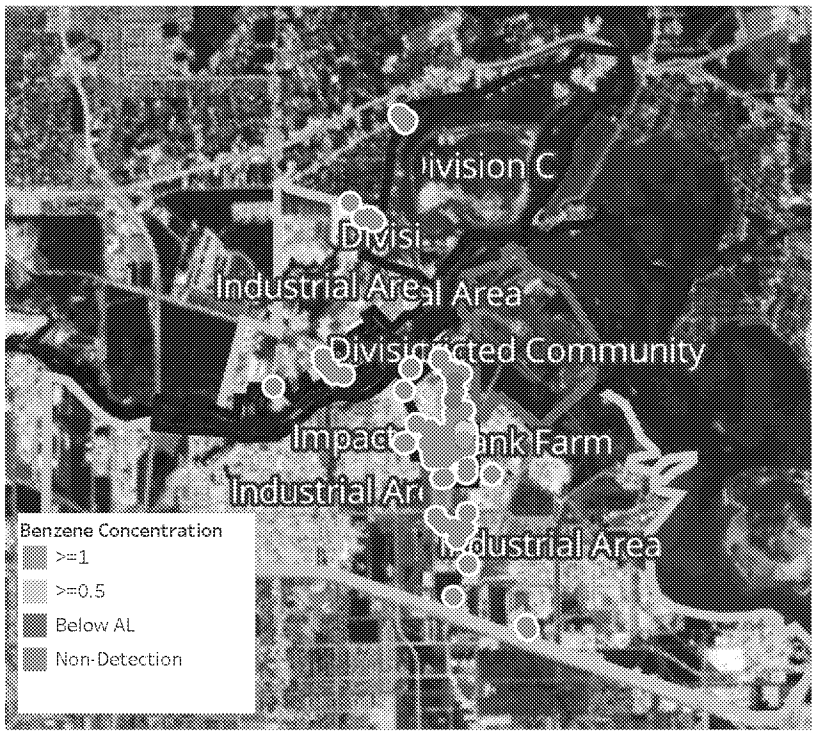
Attached are the benzene reports from 0400 – 0600.

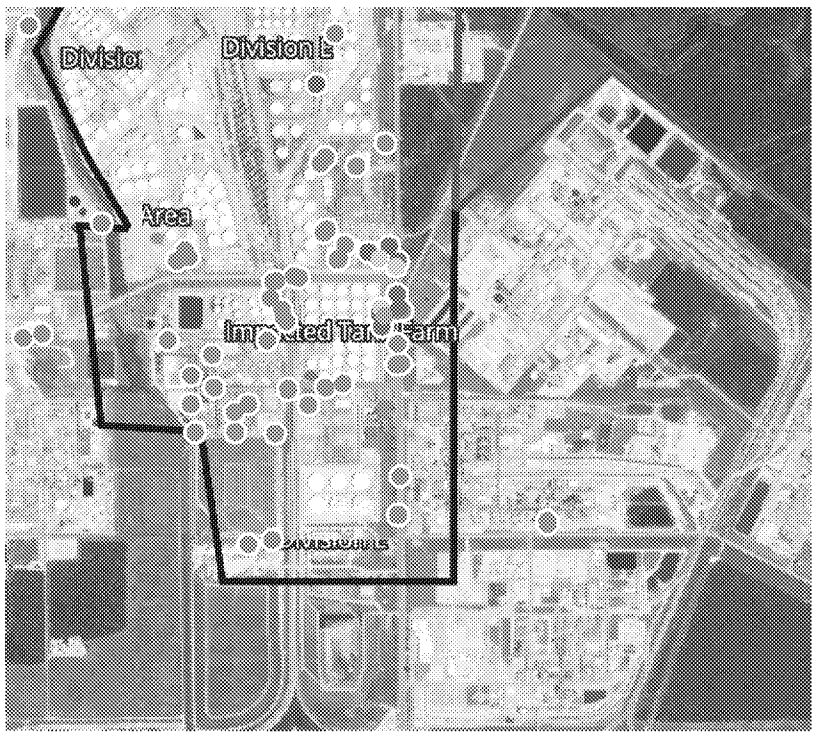
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 4:00:00 AM to 4/18/2019 5:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 04:02:58	0.280 ppm
	4/18/2019 04:02:18	0.140 ppm
	4/18/2019 04:04:25	0.080 ppm
	4/18/2019 04:01:10	0.170 ppm
	4/18/2019 04:33:30	0.020 ppm
	4/18/2019 04:30:53	0.740 ppm
	4/18/2019 04:45:40	0.030 ppm
	4/18/2019 04:44:40	0.640 ppm
	4/18/2019 04:46:51	0.240 ppm
Impacted Tank Farm	4/18/2019 04:01:22	0.060 ppm
	4/18/2019 04:07:56	0.210 ppm
	4/18/2019 04:16:43	0.180 ppm
	4/18/2019 04:14:51	0.630 ppm
	4/18/2019 04:25:10	1.300 ppm

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Reading Date
4/18/2019 4:00:00 AM to 4/18/2019 5:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

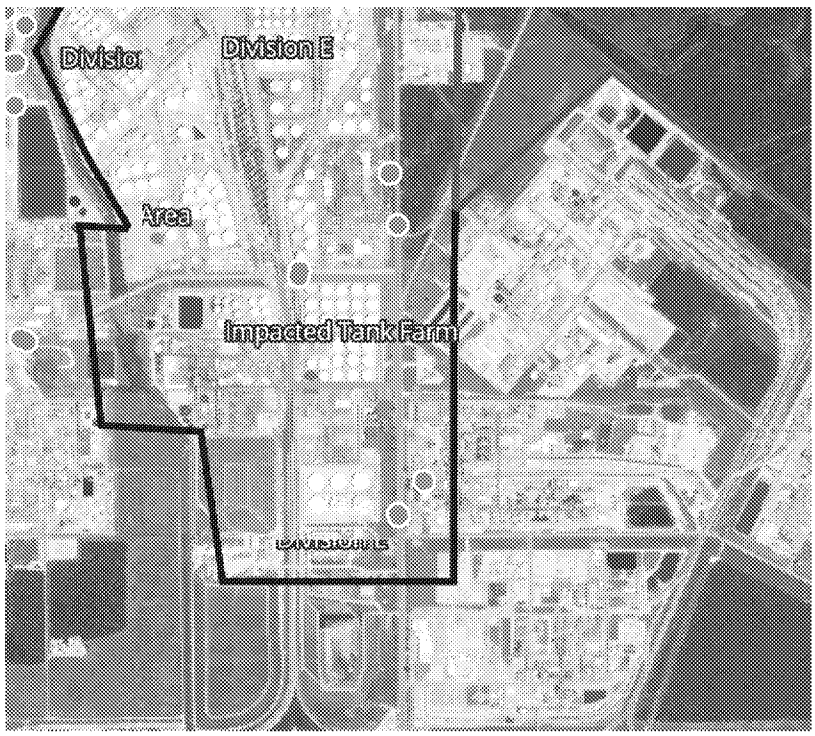
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 04:25:10	Impacted Tank Farm	29.7521830,-95.0903110	https://www.google.com/maps/search/?api=1&query=29.7521830,-95.0903110	1.300 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 5:00:00 AM to 4/18/2019 6:00:00 AM

Recent Benzene Detections



This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/18/2019 9:01:50 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1400 Benzene Report
Attachments: 20190418_1400_Benzene_Report.pdf; 20190418_1300_Benzene_Report.pdf

All,

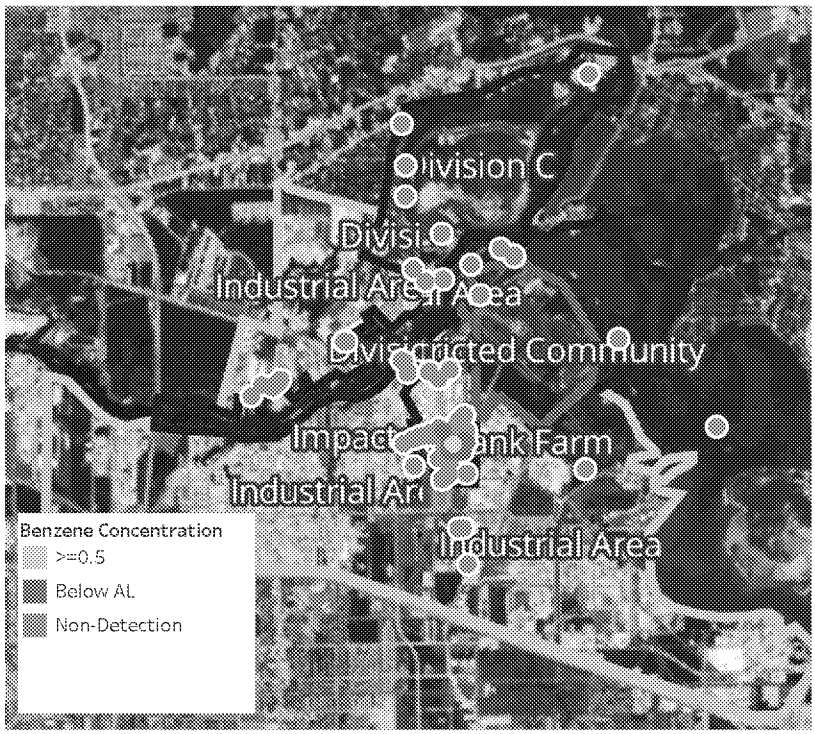
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

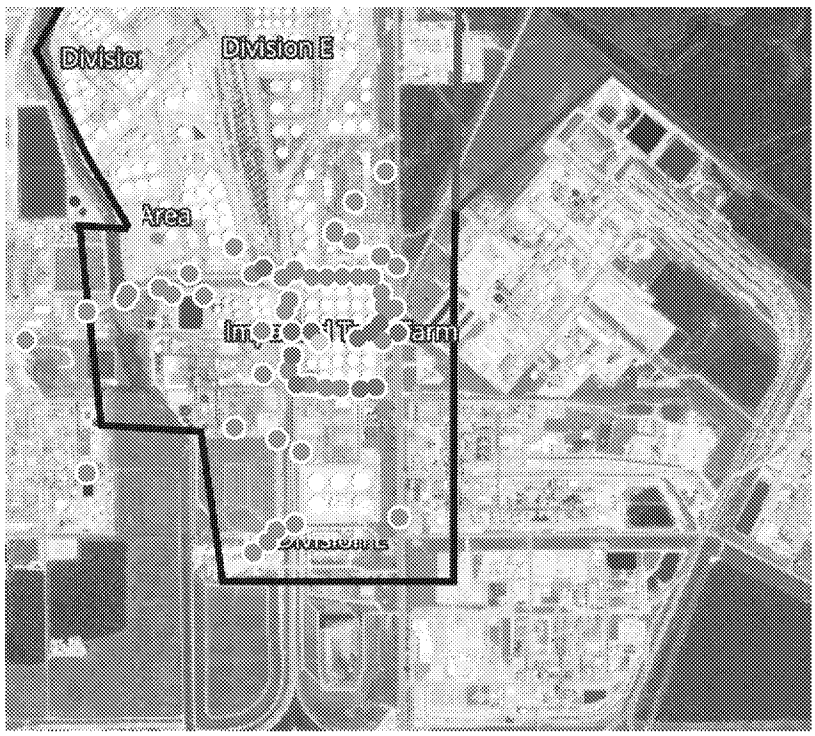
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 12:00:00 PM to 4/18/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 12:08:34	0.0900 ppm
	4/18/2019 12:13:16	0.1500 ppm
	4/18/2019 12:26:02	0.0200 ppm
	4/18/2019 12:44:22	0.2300 ppm
	4/18/2019 12:46:50	0.0900 ppm
	4/18/2019 12:58:02	0.0500 ppm
	4/18/2019 12:30:33	0.0100 ppm
Impacted Tank Farm	4/18/2019 12:15:37	0.3750 ppm
	4/18/2019 12:08:13	0.0900 ppm
	4/18/2019 12:39:51	0.2250 ppm
	4/18/2019 12:47:24	0.1250 ppm
	4/18/2019 12:54:34	0.2250 ppm

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Reading Date
4/18/2019 12:00:00 PM to 4/18/2019 1:00:00 PM

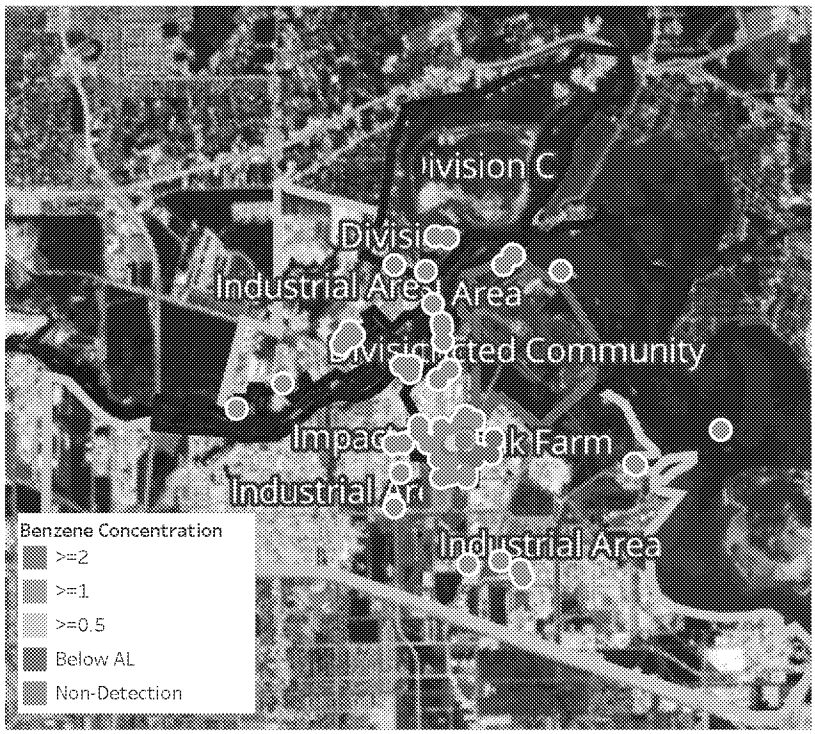
Benzene Action Level Concentration (ppm)

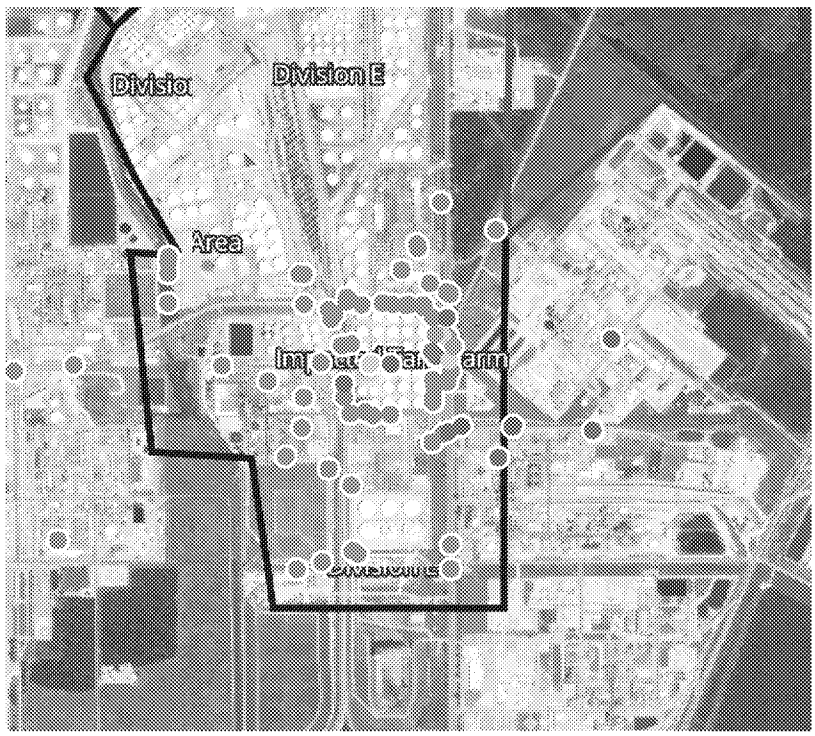
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 1:00:00 PM to 4/18/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 13:16:47	0.020 ppm
	4/18/2019 13:24:57	0.590 ppm
	4/18/2019 13:49:39	0.100 ppm
	4/18/2019 13:41:25	0.560 ppm
	4/18/2019 13:33:18	1.120 ppm
Impacted Tank Farm	4/18/2019 13:07:09	0.225 ppm
	4/18/2019 13:00:01	2.360 ppm
	4/18/2019 13:16:21	0.300 ppm
	4/18/2019 13:06:01	1.600 ppm
	4/18/2019 13:20:25	0.575 ppm
Industrial Area	4/18/2019 13:42:32	0.100 ppm
	4/18/2019 13:14:24	0.010 ppm
	4/18/2019 13:24:19	0.050 ppm
	4/18/2019 13:09:00	0.020 ppm
	4/18/2019 13:02:46	0.060 ppm
	4/18/2019 13:52:04	0.050 ppm
	4/18/2019 13:47:40	0.060 ppm
	4/18/2019 13:49:15	0.030 ppm

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Reading Date
4/18/2019 1:00:00 PM to 4/18/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 13:33:18	Division E	29.7520780,-95.0897540	https://www.google.com/maps/search/?api=1&query=29.7520780,-95.0897540	1.120 ppm
4/18/2019 13:06:01	Impacted Tank Farm	29.7324040,-95.0902850	https://www.google.com/maps/search/?api=1&query=29.7324040,-95.0902850	1.600 ppm
4/18/2019 13:00:01	Impacted Tank Farm	29.7319490,-95.0904050	https://www.google.com/maps/search/?api=1&query=29.7319490,-95.0904050	2.360 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/18/2019 9:18:28 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190418_0300_benzene_report.pdf; 20190418_0400_benzene_report.pdf

All,

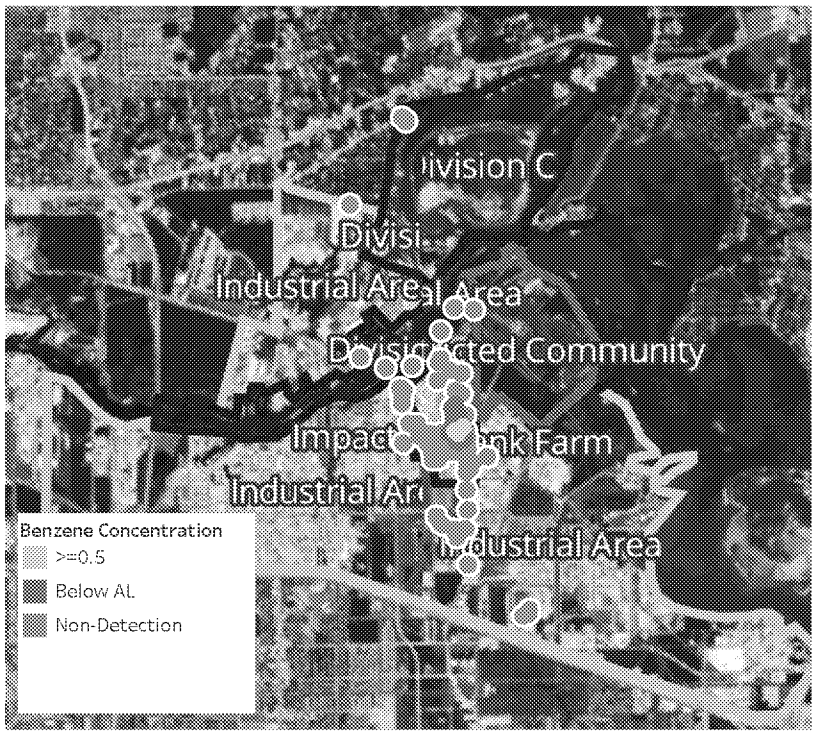
Attached are the benzene reports from 0200 – 0400.

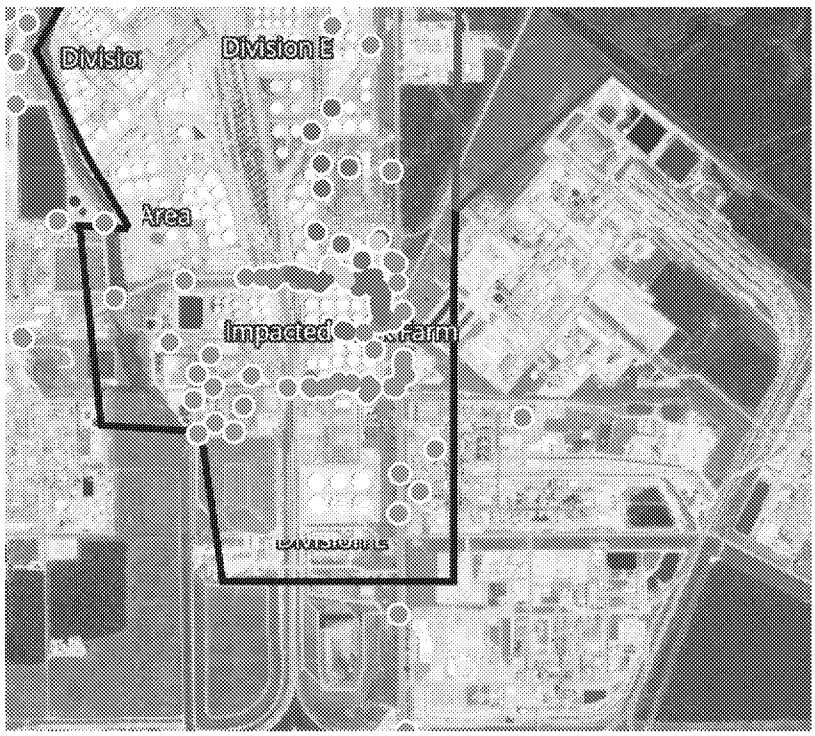
Thanks, All,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 2:00:00 AM to 4/18/2019 3:00:00 AM

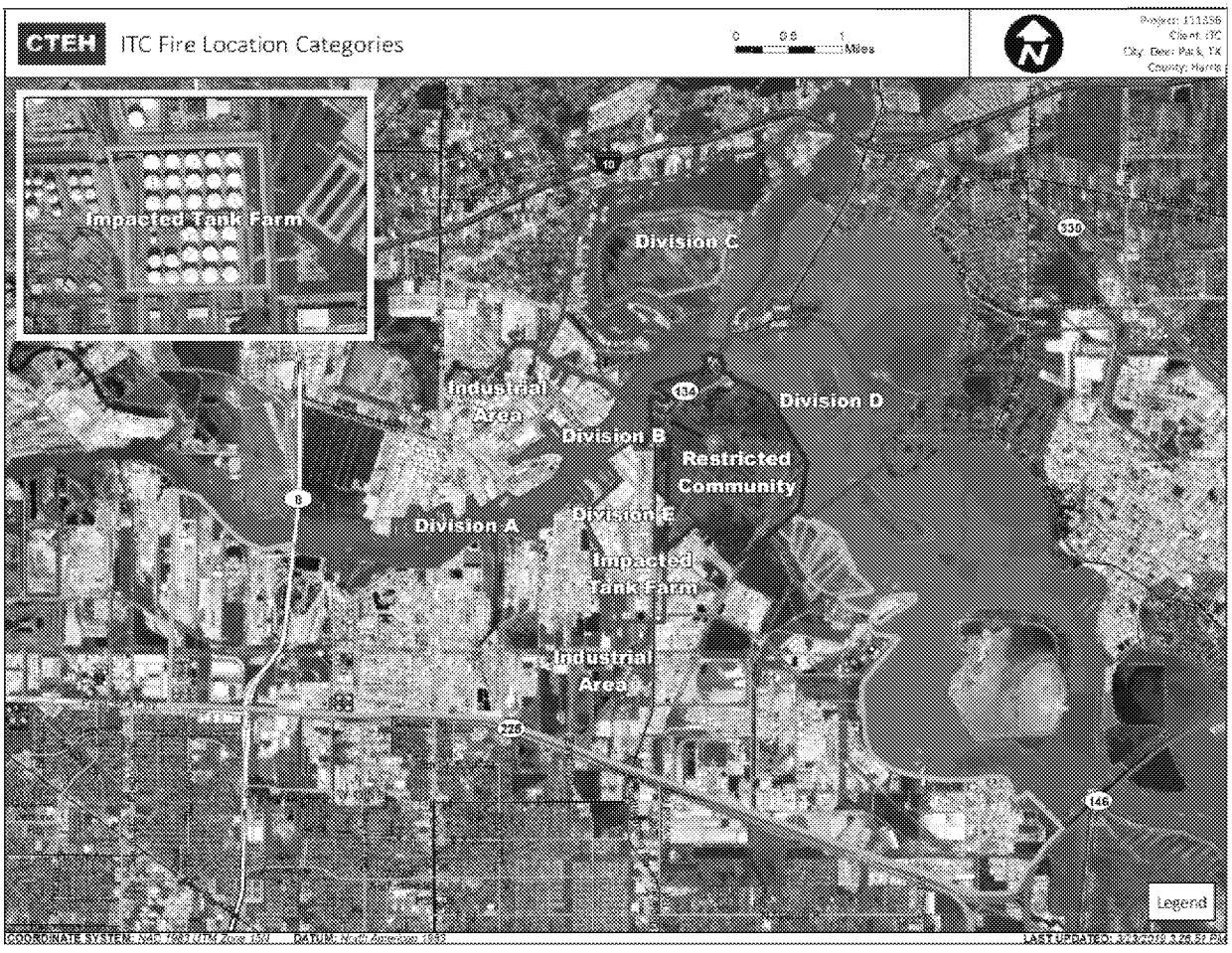




Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 02:06:08	0.6750 ppm
	4/18/2019 02:04:27	0.0600 ppm
	4/18/2019 02:14:27	0.0300 ppm
	4/18/2019 02:24:03	0.1300 ppm
	4/18/2019 02:27:24	0.2000 ppm
	4/18/2019 02:34:20	0.1600 ppm
	4/18/2019 02:29:36	0.6500 ppm
	4/18/2019 02:26:43	0.1800 ppm
	4/18/2019 02:31:43	0.4600 ppm
	4/18/2019 02:24:14	0.1700 ppm
	4/18/2019 02:32:46	0.4200 ppm
	4/18/2019 02:35:12	0.2200 ppm
	4/18/2019 02:30:12	0.7500 ppm
	4/18/2019 02:37:07	0.2000 ppm
	4/18/2019 02:36:35	0.0600 ppm
	4/18/2019 02:45:22	0.4000 ppm
	4/18/2019 02:30:59	0.1800 ppm
	4/18/2019 02:32:55	0.0700 ppm
	4/18/2019 02:24:50	0.6300 ppm
	4/18/2019 02:28:51	0.2600 ppm
	4/18/2019 02:22:05	0.2900 ppm
	4/18/2019 02:16:03	0.2200 ppm
Impacted Tank Farm	4/18/2019 02:16:25	0.1600 ppm
	4/18/2019 02:23:21	0.3300 ppm
	4/18/2019 02:03:17	0.0200 ppm
	4/18/2019 02:00:59	0.0500 ppm
	4/18/2019 02:20:29	0.0800 ppm
	4/18/2019 02:27:06	0.0300 ppm
	4/18/2019 02:24:34	0.0200 ppm
	4/18/2019 02:29:20	0.4300 ppm
	4/18/2019 02:32:07	0.0500 ppm
	4/18/2019 02:36:37	0.0700 ppm
	4/18/2019 02:49:14	0.1600 ppm

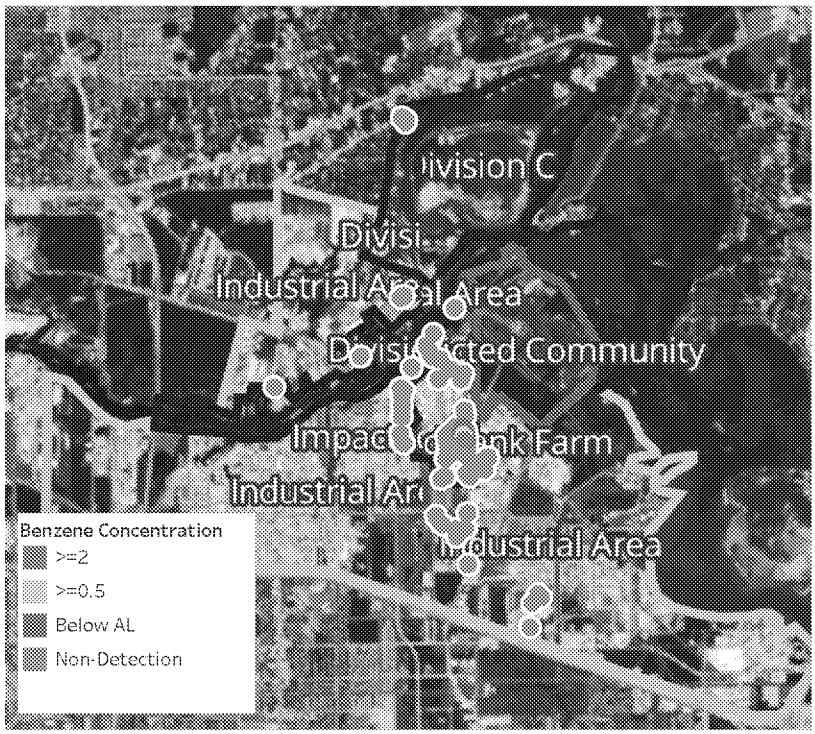
This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

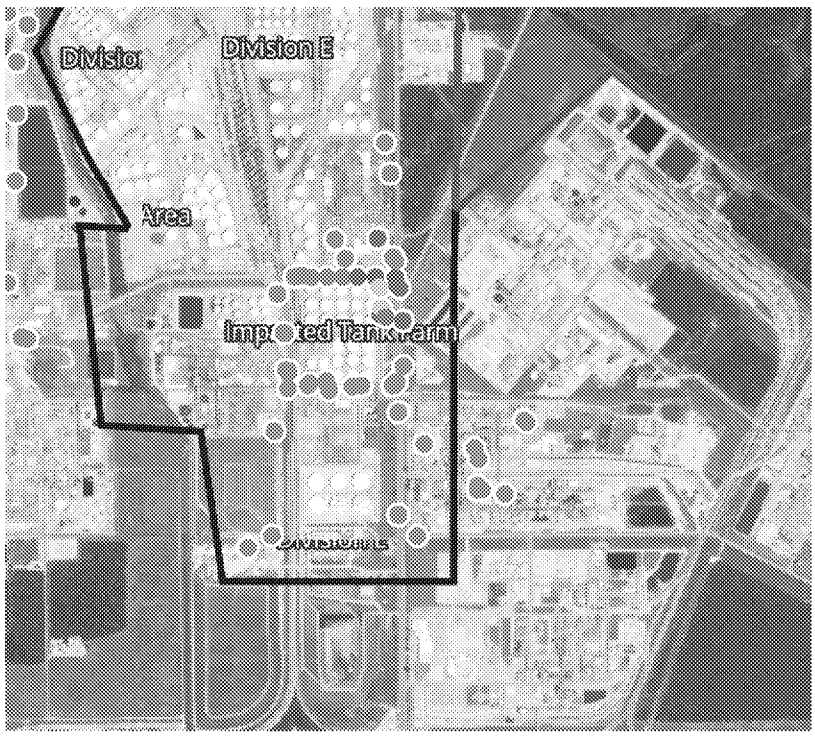


Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/18/2019 3:00:00 AM to 4/18/2019 4:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/18/2019 03:12:31	0.380 ppm
	4/18/2019 03:43:11	0.050 ppm
	4/18/2019 03:49:22	0.380 ppm
	4/18/2019 03:49:27	0.050 ppm
	4/18/2019 03:46:42	0.050 ppm
	4/18/2019 03:52:55	0.300 ppm
	4/18/2019 03:58:38	0.200 ppm
Impacted Tank Farm	4/18/2019 03:05:20	0.540 ppm
	4/18/2019 03:22:32	0.330 ppm
	4/18/2019 03:31:34	2.020 ppm
	4/18/2019 03:52:30	0.660 ppm
	4/18/2019 03:56:35	0.250 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/18/2019 3:00:00 AM to 4/18/2019 4:00:00 AM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/18/2019 03:31:34	Impacted Tank Farm	29.7521390,-95.0902660	https://www.google.com/maps/search/?api=1&query=29.7521390,-95.0902660	2.020 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/17/2019 7:08:26 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1400 Benzene Report
Attachments: 20190417_1300_Benzene_Report.pdf; 20190417_1400_Benzene_Report.pdf

All,

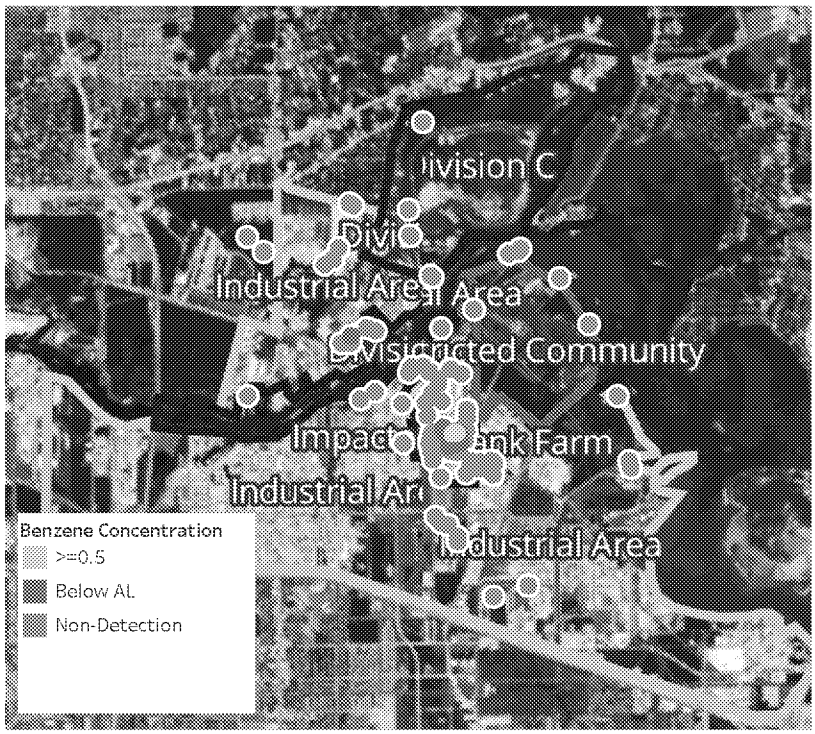
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

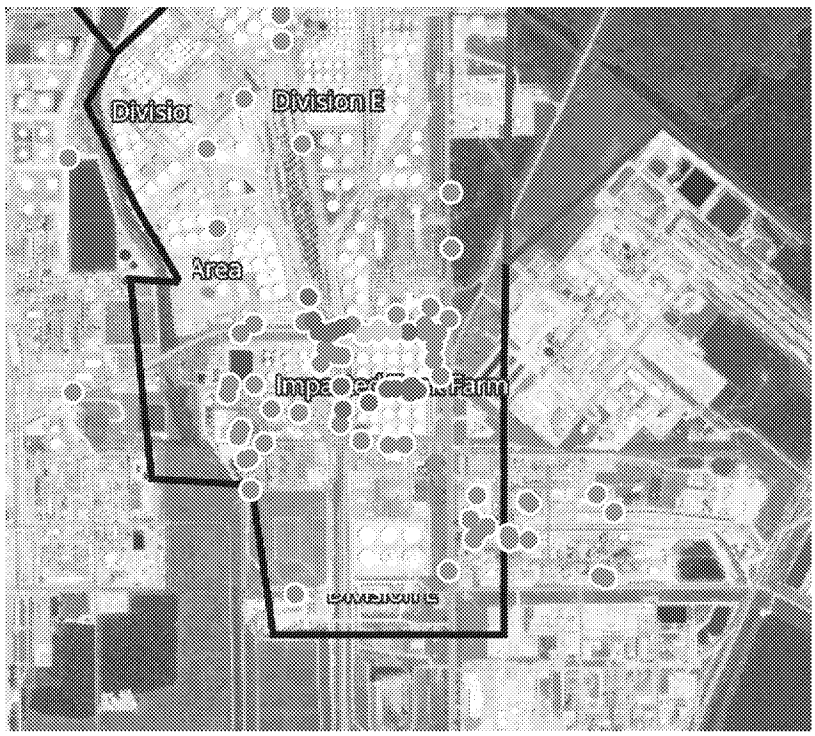
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 12:00:00 PM to 4/17/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Above Grate	4/17/2019 12:14:05	0.0700 ppm
	4/17/2019 12:33:42	0.0700 ppm
Division E	4/17/2019 12:11:40	0.0700 ppm
	4/17/2019 12:03:25	0.6100 ppm
	4/17/2019 12:20:42	0.0200 ppm
	4/17/2019 12:24:09	0.5000 ppm
	4/17/2019 12:28:53	0.7100 ppm
	4/17/2019 12:24:47	0.0200 ppm
	4/17/2019 12:31:15	0.6200 ppm
	4/17/2019 12:34:04	0.3000 ppm
	4/17/2019 12:33:39	0.0300 ppm
	4/17/2019 12:38:17	0.0400 ppm
	4/17/2019 12:36:41	0.0500 ppm
	4/17/2019 12:29:49	0.1500 ppm
	4/17/2019 12:28:07	0.0600 ppm
	4/17/2019 12:44:11	0.1200 ppm
	4/17/2019 12:47:36	0.0300 ppm
Impacted Tank Farm	4/17/2019 12:11:21	0.1500 ppm
	4/17/2019 12:15:44	0.0800 ppm
	4/17/2019 12:42:36	0.0400 ppm
	4/17/2019 12:48:35	0.0600 ppm
	4/17/2019 12:51:47	0.1100 ppm
	4/17/2019 12:54:18	0.2500 ppm
	4/17/2019 12:58:13	0.1200 ppm

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Reading Date
4/17/2019 12:00:00 PM to 4/17/2019 1:00:00 PM

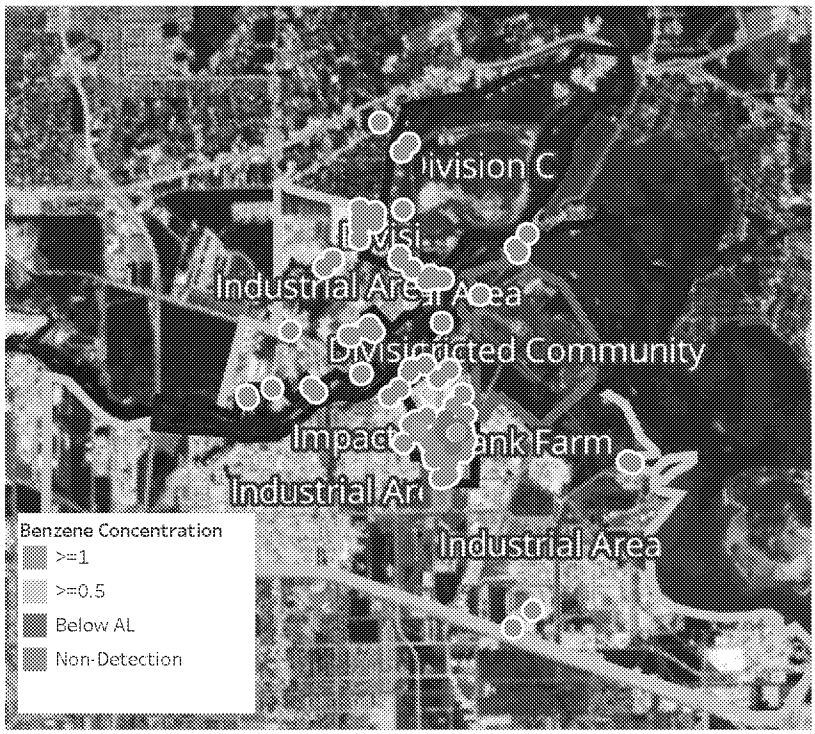
Benzene Action Level Concentration (ppm)

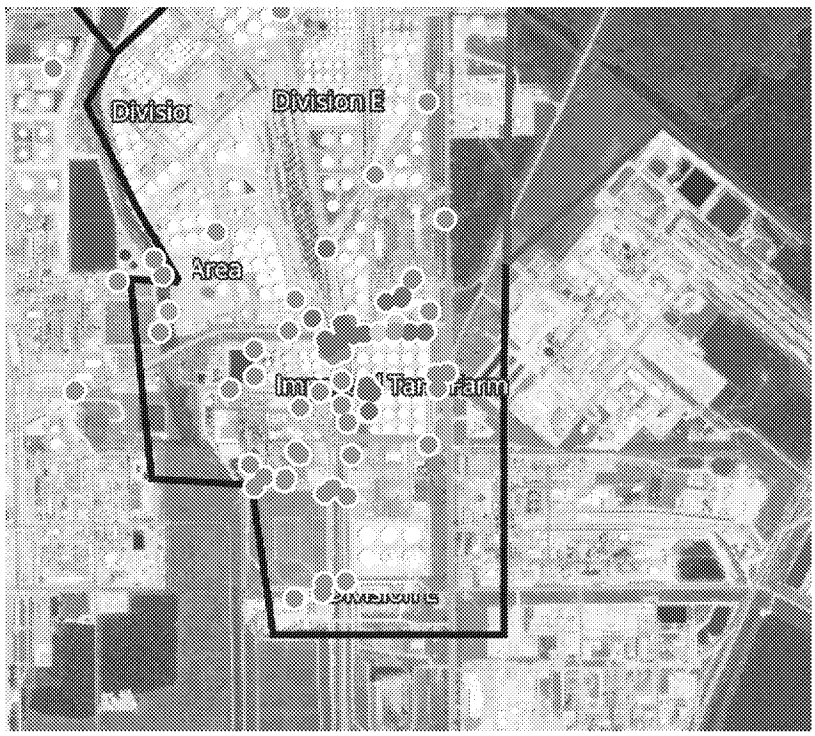
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 1:00:00 PM to 4/17/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 13:04:02	0.190 ppm
	4/17/2019 13:01:49	0.080 ppm
	4/17/2019 13:06:12	0.160 ppm
	4/17/2019 13:11:26	0.130 ppm
	4/17/2019 13:12:22	0.300 ppm
	4/17/2019 13:14:56	0.050 ppm
	4/17/2019 13:16:25	0.030 ppm
	4/17/2019 13:18:21	0.050 ppm
	4/17/2019 13:18:02	1.750 ppm
	4/17/2019 13:20:44	0.660 ppm
	4/17/2019 13:22:49	1.500 ppm
	4/17/2019 13:25:23	0.310 ppm
	4/17/2019 13:27:14	0.050 ppm
	4/17/2019 13:07:04	0.100 ppm
	4/17/2019 13:11:53	0.030 ppm
	4/17/2019 13:15:48	0.040 ppm
	4/17/2019 13:40:25	0.660 ppm
	4/17/2019 13:56:22	0.240 ppm
Impacted Tank Farm	4/17/2019 13:00:27	0.060 ppm
	4/17/2019 13:14:16	0.040 ppm
	4/17/2019 13:22:39	0.030 ppm
	4/17/2019 13:48:16	0.040 ppm

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Reading Date
4/17/2019 1:00:00 PM to 4/17/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 13:22:49	Division E	29.732000,-95.0915400	https://www.google.com/maps/search/?api=1&query=29.732000,-95.0915400	1.5000 ppm
4/17/2019 13:18:02	Division E	29.7337300,-95.0984200	https://www.google.com/maps/search/?api=1&query=29.7337300,-95.0984200	1.7500 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/12/2019 11:14:09 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190412_0500_benzene_report.pdf; 20190412_0600_benzene_report.pdf

All,

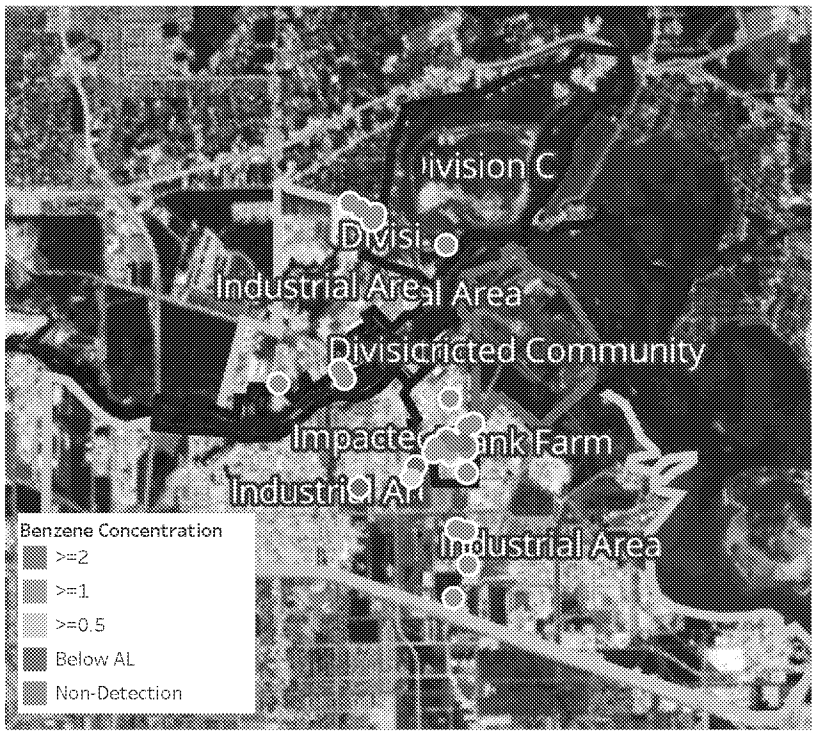
Attached are the benzene reports for 0400 – 0600.

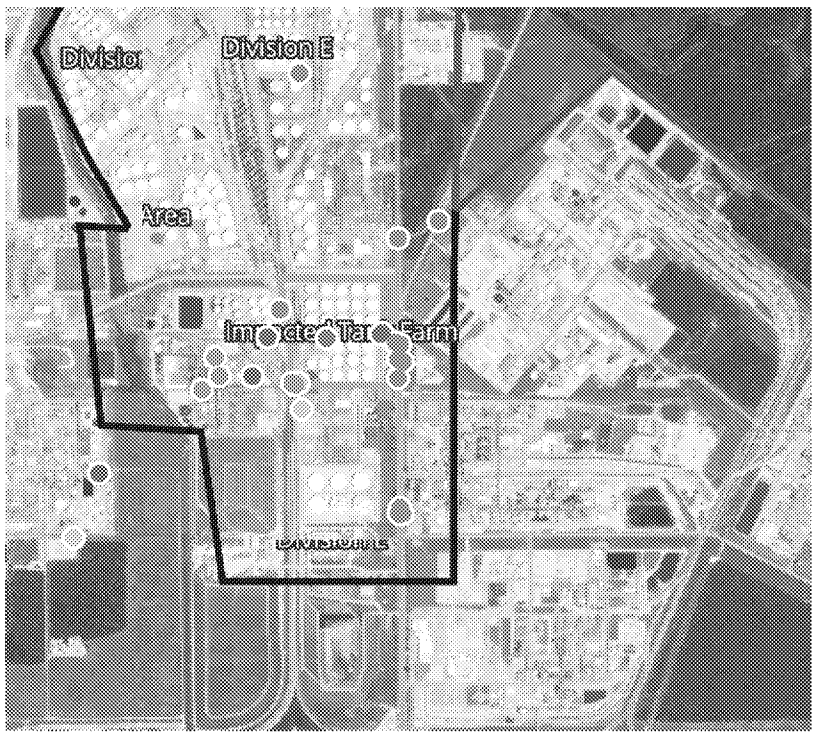
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 4:00:00 AM to 4/12/2019 5:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 04:08:30	0.69 ppm
	4/12/2019 04:14:12	0.26 ppm
	4/12/2019 04:19:46	0.28 ppm
	4/12/2019 04:25:57	1.58 ppm
	4/12/2019 04:28:58	0.76 ppm
	4/12/2019 04:33:11	1.26 ppm
	4/12/2019 04:39:30	1.80 ppm
	4/12/2019 04:58:36	1.05 ppm
	4/12/2019 04:56:50	1.75 ppm
Impacted Tank Farm	4/12/2019 04:08:34	14.46 ppm
	4/12/2019 04:19:16	0.17 ppm
Industrial Area	4/12/2019 04:06:15	0.32 ppm
	4/12/2019 04:10:43	0.54 ppm
	4/12/2019 04:34:03	0.23 ppm

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Reading Date
4/12/2019 4:00:00 AM to 4/12/2019 5:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

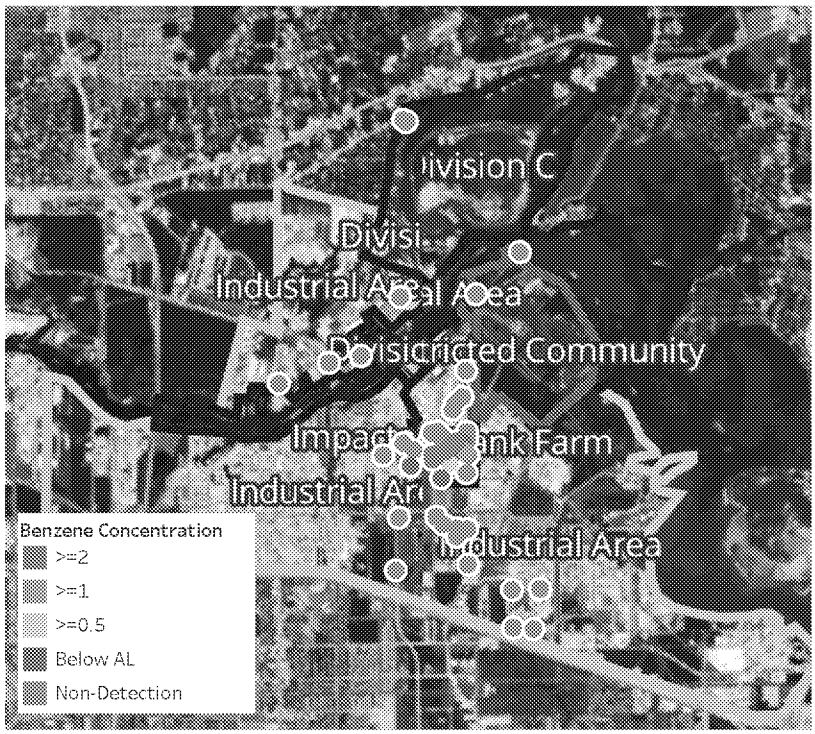
PRELIMINARY

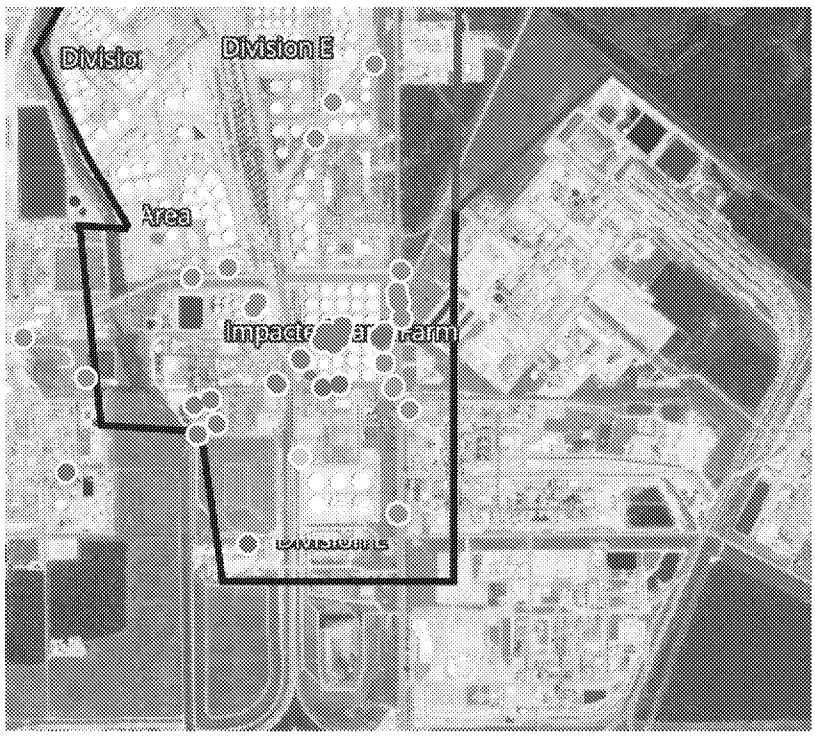
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 04:58:36	Division E	29.7305852,-95.0953251	https://www.google.com/maps/search/?api=1&query=29.7305852,-95.0953251	1.05 ppm
4/12/2019 04:56:50	Division E	29.7302210,-95.0956650	https://www.google.com/maps/search/?api=1&query=29.7302210,-95.0956650	1.75 ppm
4/12/2019 04:39:30	Division E	29.7310780,-95.0954600	https://www.google.com/maps/search/?api=1&query=29.7310780,-95.0954600	1.30 ppm
4/12/2019 04:33:11	Division E	29.7304030,-95.0931140	https://www.google.com/maps/search/?api=1&query=29.7304030,-95.0931140	1.26 ppm
4/12/2019 04:25:57	Division E	29.7303470,-95.0930090	https://www.google.com/maps/search/?api=1&query=29.7303470,-95.0930090	1.58 ppm
4/12/2019 04:08:34	Impacted Tank Farm	29.7315920,-95.0920600	https://www.google.com/maps/search/?api=1&query=29.7315920,-95.0920600	14.45 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 5:00:00 AM to 4/12/2019 6:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 05:03:25	3.55 ppm
	4/12/2019 05:07:27	4.33 ppm
	4/12/2019 05:06:04	2.90 ppm
	4/12/2019 05:08:58	5.53 ppm
	4/12/2019 05:15:12	9.03 ppm
	4/12/2019 05:23:58	0.20 ppm
	4/12/2019 05:46:48	0.53 ppm
	4/12/2019 05:57:03	2.73 ppm
	4/12/2019 05:22:22	0.20 ppm
	4/12/2019 05:36:23	0.25 ppm
Impacted Tank Farm	4/12/2019 05:04:14	8.55 ppm
	4/12/2019 05:07:34	7.42 ppm
	4/12/2019 05:07:21	9.05 ppm
	4/12/2019 05:05:03	10.30 ppm
	4/12/2019 05:21:39	7.90 ppm
	4/12/2019 05:19:05	3.51 ppm
	4/12/2019 05:24:40	6.05 ppm
	4/12/2019 05:20:16	0.16 ppm
	4/12/2019 05:21:37	0.28 ppm
	4/12/2019 05:28:52	0.13 ppm
	4/12/2019 05:23:51	0.39 ppm
	4/12/2019 05:26:29	1.10 ppm
	4/12/2019 05:44:59	1.72 ppm
	4/12/2019 05:46:35	4.39 ppm
	4/12/2019 05:43:09	11.60 ppm
	4/12/2019 05:43:21	25.37 ppm
	4/12/2019 05:47:15	4.26 ppm
	4/12/2019 05:52:30	28.21 ppm
	4/12/2019 05:44:37	2.00 ppm
	4/12/2019 05:52:38	24.20 ppm
	4/12/2019 05:49:50	25.00 ppm
Industrial Area	4/12/2019 05:17:37	0.29 ppm

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Reading Date
4/12/2019 5:00:00 AM to 4/12/2019 6:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

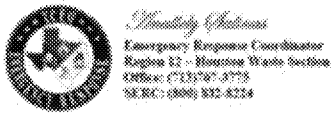
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 05:57:03	Division E	29.7304040,-95.0936080	https://www.google.com/maps/search/?api=1&query=29.7304040,-95.0936080	2.73 ppm
4/12/2019 05:52:38	Impacted Tank Farm	29.7315160,-95.0919750	https://www.google.com/maps/search/?api=1&query=29.7315160,-95.0919750	24.20 ppm
4/12/2019 05:52:30	Impacted Tank Farm	29.7316570,-95.0919830	https://www.google.com/maps/search/?api=1&query=29.7316570,-95.0919830	28.21 ppm
4/12/2019 05:49:50	Impacted Tank Farm	29.7314950,-95.0922180	https://www.google.com/maps/search/?api=1&query=29.7314950,-95.0922180	25.00 ppm
4/12/2019 05:47:15	Impacted Tank Farm	29.7317970,-95.0916200	https://www.google.com/maps/search/?api=1&query=29.7317970,-95.0916200	4.26 ppm
4/12/2019 05:46:35	Impacted Tank Farm	29.7319130,-95.0915970	https://www.google.com/maps/search/?api=1&query=29.7319130,-95.0915970	6.39 ppm
4/12/2019 05:44:59	Impacted Tank Farm	29.7318020,-95.0916160	https://www.google.com/maps/search/?api=1&query=29.7318020,-95.0916160	1.72 ppm
4/12/2019 05:44:37	Impacted Tank Farm	29.7318030,-95.0915660	https://www.google.com/maps/search/?api=1&query=29.7318030,-95.0915660	2.00 ppm
4/12/2019 05:43:21	Impacted Tank Farm	29.7319090,-95.0915590	https://www.google.com/maps/search/?api=1&query=29.7319090,-95.0915590	25.37 ppm
4/12/2019 05:43:09	Impacted Tank Farm	29.7315690,-95.0916530	https://www.google.com/maps/search/?api=1&query=29.7315690,-95.0916530	11.69 ppm
4/12/2019 05:26:29	Impacted Tank Farm	29.7502930,-95.0900150	https://www.google.com/maps/search/?api=1&query=29.7502930,-95.0900150	1.10 ppm
4/12/2019 05:24:40	Impacted Tank Farm	29.7310560,-95.0928700	https://www.google.com/maps/search/?api=1&query=29.7310560,-95.0928700	6.05 ppm
4/12/2019 05:21:39	Impacted Tank Farm	29.7310050,-95.0928440	https://www.google.com/maps/search/?api=1&query=29.7310050,-95.0928440	7.90 ppm
4/12/2019 05:19:05	Impacted Tank Farm	29.7310020,-95.0928290	https://www.google.com/maps/search/?api=1&query=29.7310020,-95.0928290	5.51 ppm
4/12/2019 05:15:12	Division E	29.7302555,-95.0935521	https://www.google.com/maps/search/?api=1&query=29.7302555,-95.0935521	9.03 ppm
4/12/2019 05:08:58	Division E	29.7299550,-95.0956000	https://www.google.com/maps/search/?api=1&query=29.7299550,-95.0956000	5.53 ppm
4/12/2019 05:07:34	Impacted Tank Farm	29.7317158,-95.0919424	https://www.google.com/maps/search/?api=1&query=29.7317158,-95.0919424	7.42 ppm
4/12/2019 05:07:27	Division E	29.7295150,-95.0954090	https://www.google.com/maps/search/?api=1&query=29.7295150,-95.0954090	4.33 ppm
4/12/2019 05:07:21	Impacted Tank Farm	29.7317320,-95.0921160	https://www.google.com/maps/search/?api=1&query=29.7317320,-95.0921160	9.05 ppm
4/12/2019 05:06:04	Division E	29.7290420,-95.0959900	https://www.google.com/maps/search/?api=1&query=29.7290420,-95.0959900	2.90 ppm
4/12/2019 05:05:03	Impacted Tank Farm	29.7317450,-95.0920530	https://www.google.com/maps/search/?api=1&query=29.7317450,-95.0920530	10.50 ppm
4/12/2019 05:04:14	Impacted Tank Farm	29.7314100,-95.0918480	https://www.google.com/maps/search/?api=1&query=29.7314100,-95.0918480	3.65 ppm
4/12/2019 05:03:25	Division E	29.7296120,-95.0960460	https://www.google.com/maps/search/?api=1&query=29.7296120,-95.0960460	3.65 ppm

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/9/2019 2:36:39 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: Air Monitoring Plan 04/09/2019 - 0600-1400
Attachments: Air Monitoring Plan 4-9-19 0600-1400.docx

Just an FYI



From: spill12
Sent: Tuesday, April 9, 2019 9:20 AM
To: Helen Dubach <hdubach@ctehrm.com>
Cc: Adams, Adam <Adams.Adam@epa.gov>
Subject: FW: Air Monitoring Plan 04/09/2019 - 0600-1400

Helen,

Please see the attached TCEQ Air Monitoring Plan for April 09, 2019.

Anallely Salinas
TCEQ- State on Scene Coordinator
(512)965-2717

From: Jason Holloman
Sent: Tuesday, April 9, 2019 8:31 AM
To: spill12 <spill12@tceq.texas.gov>
Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Joseph Doby <joe.doby@tceq.texas.gov>; Corbett Brinly <Corbett.Brinly@tceq.texas.gov>; Warda Omar <Warda.Omar@Tceq.Texas.Gov>; Amy Messick <amy.messick@tceq.texas.gov>
Subject: Air Monitoring Plan 04/09/2019 - 0600-1400

Please see the attached Air Monitoring Plan for 04/09/2019 0600-1400.

Thank You

Jason Holloman
Environmental Investigator
TCEQ - Region 12
5425 Polk Ave. Ste H
Houston, Texas 77023
713-767-3553
Jason.Holloman@tceq.texas.gov

Message

From: spill12 [spill12@tceq.texas.gov]
Sent: 4/9/2019 2:27:16 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: Email address for tank table
Attachments: Tank Update 4-9-19.xlsx

Resending it.

From: spill12
Sent: Tuesday, April 9, 2019 9:26 AM
To: patell.anish@epa.gov
Subject: FW: Email address for tank table

Emergency Response Coordinator
Region 12 – Houston Waste Section
Office: (713)767-3778
SERC: (800) 832-8224

From: Nicole Bealle
Sent: Tuesday, April 9, 2019 9:19 AM
To: spill12 <spill12@tceq.texas.gov>
Cc: Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Guadalupe Quiroz <guadalupe.quiroz@tceq.texas.gov>
Subject: FW: Email address for tank table

FYR

From: Kelly Cook
Sent: Tuesday, April 9, 2019 8:43 AM
To: Jonathan Walling <jonathan.walling@tceq.texas.gov>; Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; David Galindo <david.galindo@tceq.texas.gov>; Bob Patton <bob.patton@tceq.texas.gov>; Ramiro Garcia <ramiro.garcia@tceq.texas.gov>; Anthony Buck <Anthony.Buck@tceq.texas.gov>; Christopher Wiatrek <christopher.wiatrek@tceq.texas.gov>
Subject: FW: Email address for tank table

FYI

From: Brent Weber <bweber@iterm.com>
Sent: Tuesday, April 9, 2019 8:37 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Adams, Adam <Adams.Adam@epa.gov>; Mike Gaudet <MGaudet@iterm.com>
Subject: RE: Email address for tank table

Updated:

From: Crossland, Ronnie [mailto:Crossland.Ronnie@epa.gov]
Sent: Tuesday, April 09, 2019 7:43 AM
To: Brent Weber
Cc: Adams, Adam
Subject: Email address for tank table

Brent

Just making sure you have my email address

Thanks
Ronnie

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/9/2019 1:41:06 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: Email address for tank table
Attachments: Tank Update 4-9-19.xlsx

From: Brent Weber <bweber@iterm.com>
Sent: Tuesday, April 9, 2019 8:37 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; kelly.cook@tceq.texas.gov
Cc: Adams, Adam <Adams.Adam@epa.gov>; Mike Gaudet <MGaudet@iterm.com>
Subject: RE: Email address for tank table

Updated:

From: Crossland, Ronnie [mailto:Crossland.Ronnie@epa.gov]
Sent: Tuesday, April 09, 2019 7:43 AM
To: Brent Weber
Cc: Adams, Adam
Subject: Email address for tank table

Brent

Just making sure you have my email address

Thanks
Ronnie

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/17/2019 5:19:07 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 benzene Report
Attachments: 20190417_1100_Benzene_Report.pdf; 20190417_1200_Benzene_Report.pdf

All,

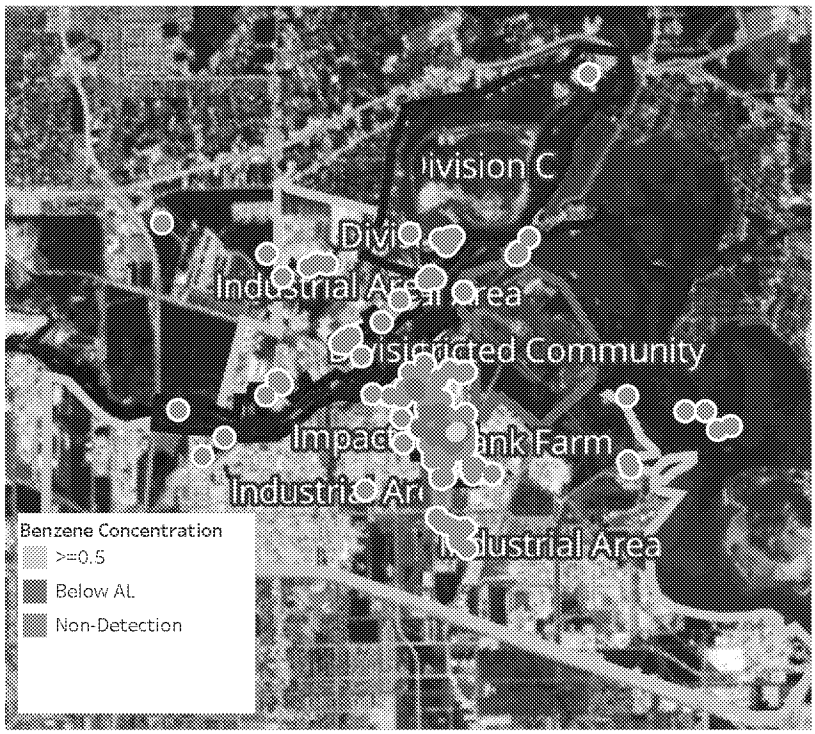
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

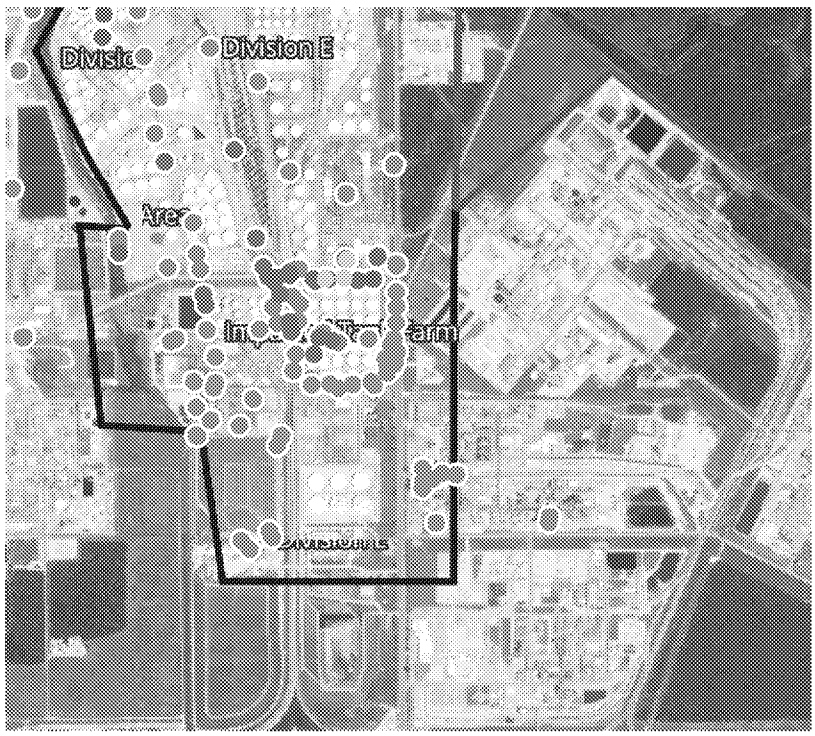
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 10:00:00 AM to 4/17/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 10:01:01	0.6000 ppm
	4/17/2019 10:03:58	0.0600 ppm
	4/17/2019 10:11:56	0.1700 ppm
	4/17/2019 10:13:13	0.0750 ppm
	4/17/2019 10:17:02	0.0200 ppm
	4/17/2019 10:21:07	0.0300 ppm
	4/17/2019 10:23:16	0.1700 ppm
	4/17/2019 10:22:10	0.0600 ppm
	4/17/2019 10:25:13	0.2300 ppm
	4/17/2019 10:18:45	0.0400 ppm
	4/17/2019 10:24:09	0.0200 ppm
	4/17/2019 10:27:43	0.0300 ppm
	4/17/2019 10:30:04	0.3400 ppm
	4/17/2019 10:32:15	0.2300 ppm
	4/17/2019 10:18:52	0.0300 ppm
	4/17/2019 10:35:53	0.0900 ppm
	4/17/2019 10:35:34	0.0600 ppm
	4/17/2019 10:25:04	0.0400 ppm
	4/17/2019 10:33:41	0.0400 ppm
	4/17/2019 10:54:19	0.3500 ppm
	4/17/2019 10:46:51	0.1600 ppm
	4/17/2019 10:48:24	0.0500 ppm
	4/17/2019 10:44:51	0.0500 ppm
	4/17/2019 10:50:21	0.0300 ppm
	4/17/2019 10:04:44	0.0600 ppm
	4/17/2019 10:27:00	0.0200 ppm
	4/17/2019 10:52:02	0.0200 ppm
	4/17/2019 10:35:50	0.3500 ppm
	4/17/2019 10:54:40	0.6500 ppm
Impacted Tank Farm	4/17/2019 10:27:27	0.0400 ppm
	4/17/2019 10:33:27	0.0600 ppm
	4/17/2019 10:47:22	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 10:00:00 AM to 4/17/2019 11:00:00 AM

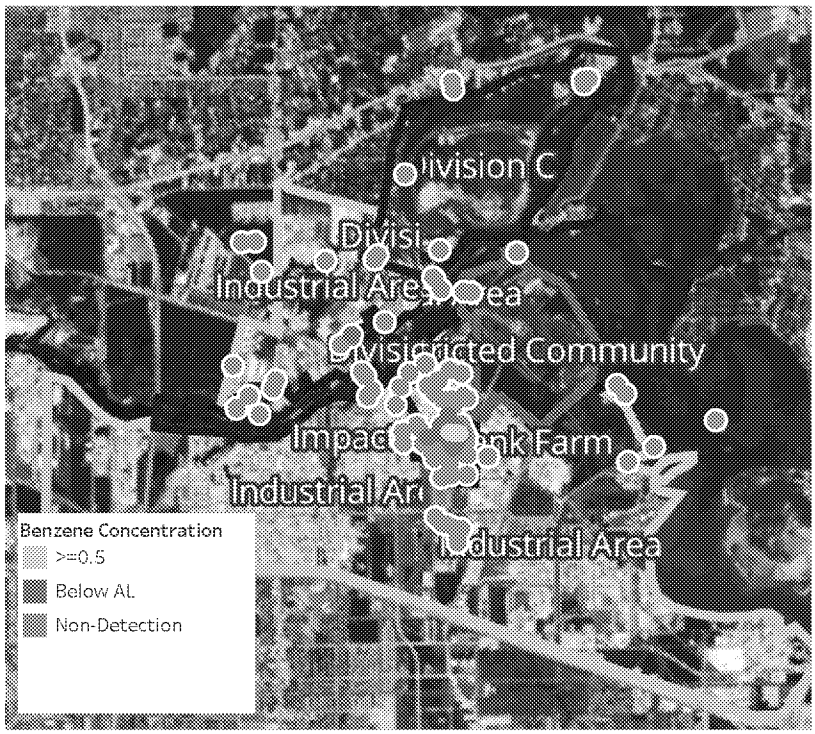
Benzene Action Level Concentration (ppm)

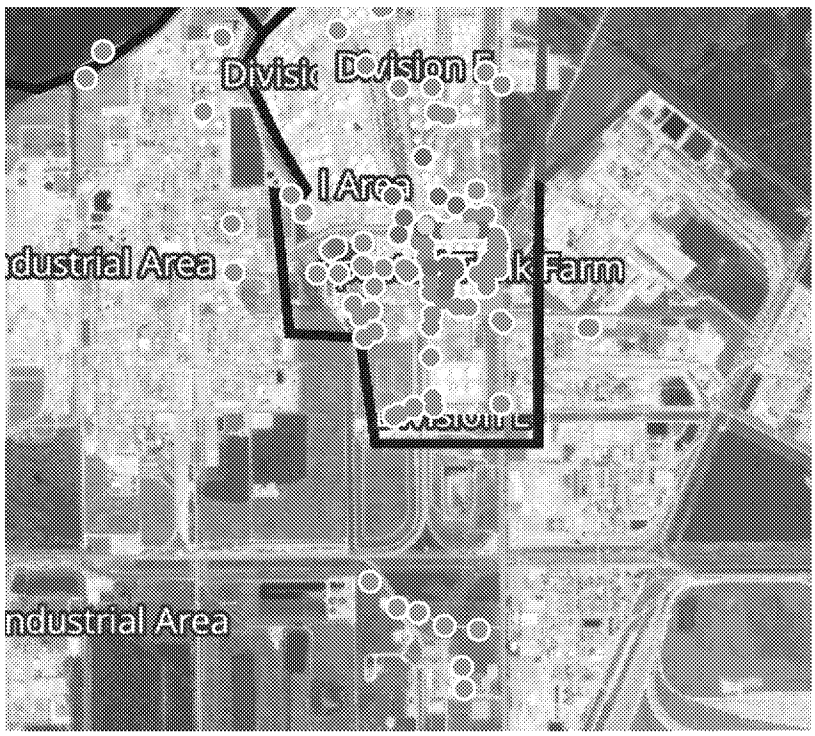
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 11:00:00 AM to 4/17/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Below Grate	4/17/2019 11:04:34	0.0700 ppm
Division E	4/17/2019 11:00:08	0.0500 ppm
	4/17/2019 11:08:29	0.2400 ppm
	4/17/2019 11:10:30	0.8500 ppm
	4/17/2019 11:12:56	0.3100 ppm
	4/17/2019 11:13:41	0.1700 ppm
	4/17/2019 11:15:28	0.9100 ppm
	4/17/2019 11:17:30	0.1500 ppm
	4/17/2019 11:17:57	0.0400 ppm
	4/17/2019 11:21:22	0.1800 ppm
	4/17/2019 11:00:27	0.0900 ppm
	4/17/2019 11:26:28	0.8750 ppm
	4/17/2019 11:35:02	0.0200 ppm
	4/17/2019 11:14:10	0.0300 ppm
	4/17/2019 11:49:21	0.6700 ppm
	4/17/2019 11:49:18	0.0400 ppm
	4/17/2019 11:05:55	0.0800 ppm
	4/17/2019 11:00:14	0.9200 ppm
Impacted Tank Farm	4/17/2019 11:24:45	0.0400 ppm
	4/17/2019 11:27:59	0.0700 ppm
	4/17/2019 11:30:42	0.1500 ppm
	4/17/2019 11:33:45	0.0400 ppm
	4/17/2019 11:36:44	0.0700 ppm
	4/17/2019 11:52:13	0.0300 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 11:00:00 AM to 4/17/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/17/2019 3:05:38 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190417_0900_Benzene_Report.pdf; 20190417_1000_Benzene_Report.pdf

All,

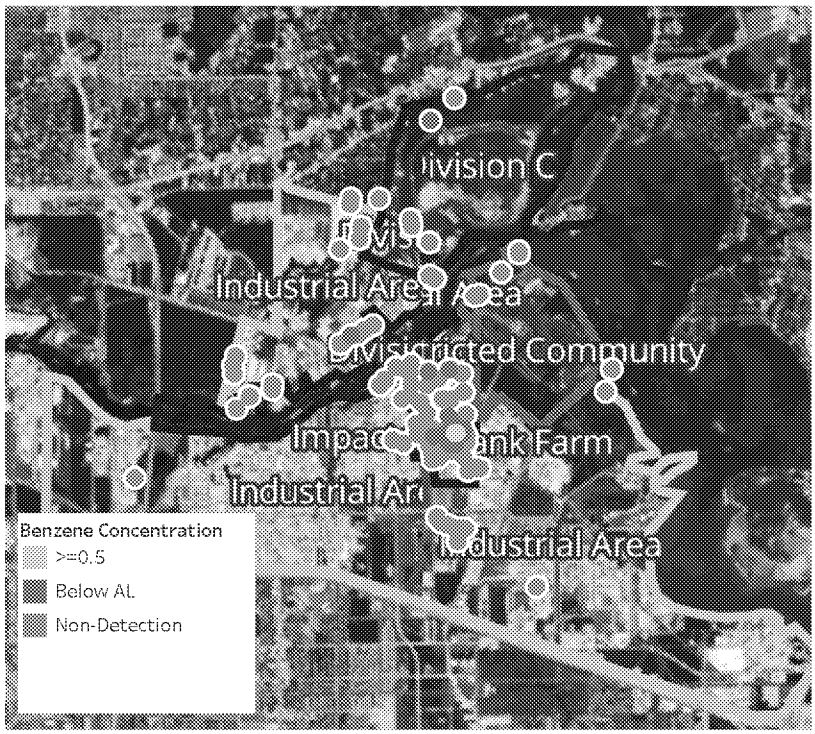
Please see the attached document for benzene readings between 0800-1000 for Independence. Let me know if you have any questions. Thanks!

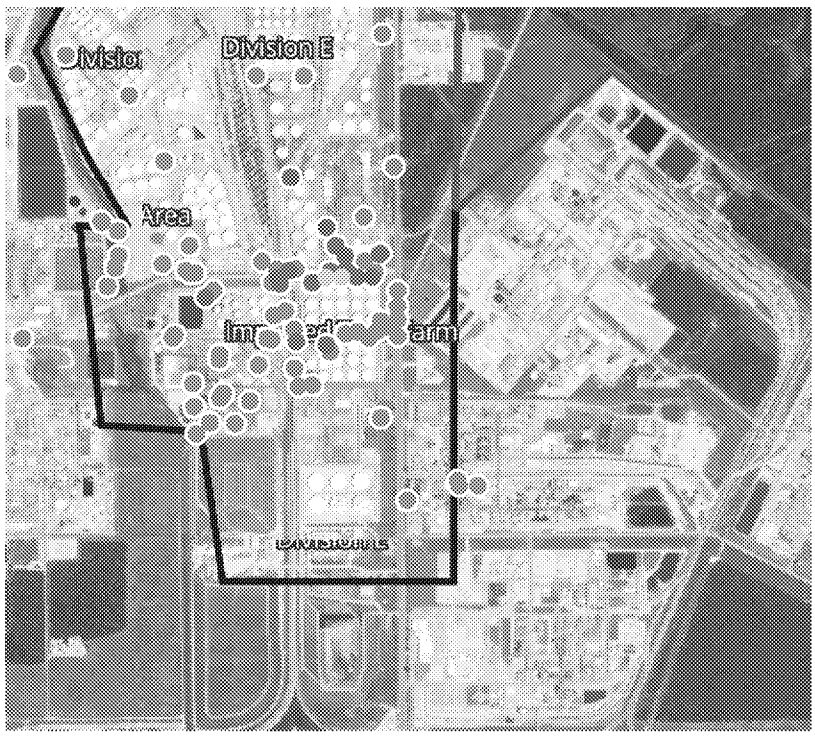
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 8:00:00 AM to 4/17/2019 9:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Below Grate	4/17/2019 08:01:56	0.2750 ppm
	4/17/2019 08:31:41	0.1750 ppm
Division B	4/17/2019 08:40:05	0.0100 ppm
Division C	4/17/2019 08:05:35	0.0750 ppm
Division E	4/17/2019 08:01:22	0.0900 ppm
	4/17/2019 08:15:54	0.4600 ppm
	4/17/2019 08:23:59	0.0600 ppm
	4/17/2019 08:27:26	0.0800 ppm
	4/17/2019 08:27:00	0.4200 ppm
	4/17/2019 08:32:32	0.0900 ppm
	4/17/2019 08:35:25	0.3000 ppm
	4/17/2019 08:32:29	0.0750 ppm
	4/17/2019 08:34:44	0.0500 ppm
	4/17/2019 08:34:59	
	4/17/2019 08:38:23	0.4000 ppm
	4/17/2019 08:30:49	0.4800 ppm
	4/17/2019 08:42:24	0.3100 ppm
	4/17/2019 08:41:22	
	4/17/2019 08:44:18	0.0900 ppm
	4/17/2019 08:46:32	0.0800 ppm
	4/17/2019 08:44:49	0.0300 ppm
	4/17/2019 08:51:30	0.2900 ppm
	4/17/2019 08:54:09	0.1000 ppm
Impacted Tank Farm	4/17/2019 08:08:42	0.0400 ppm

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Reading Date
4/17/2019 8:00:00 AM to 4/17/2019 9:00:00 AM

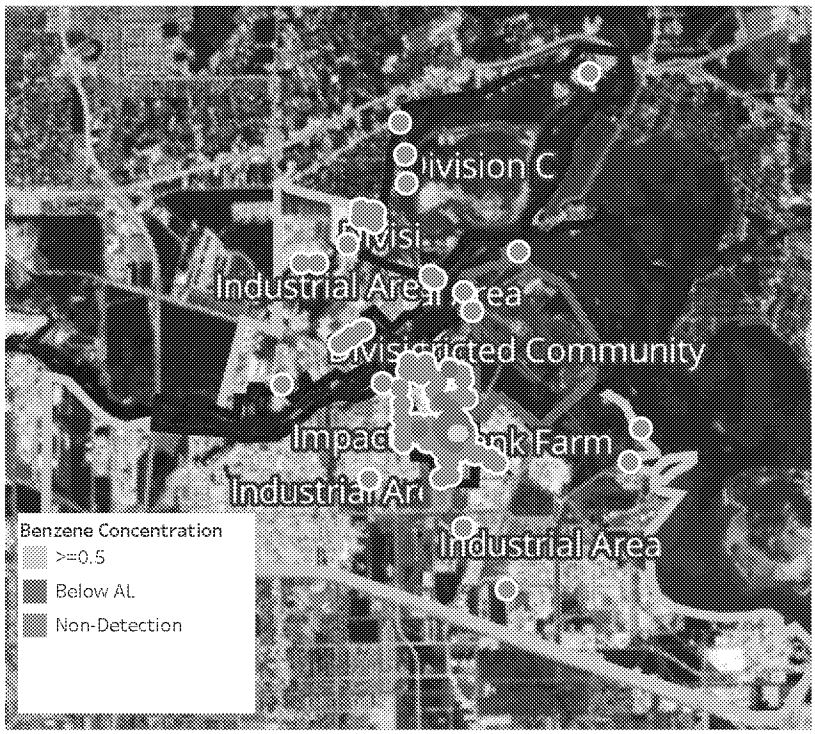
Benzene Action Level Concentration (ppm)

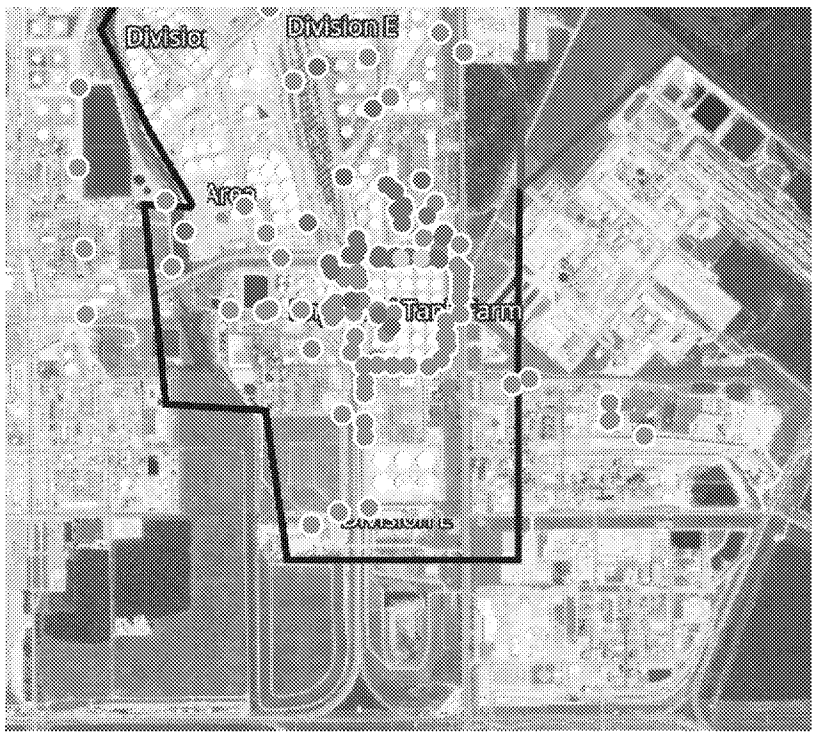
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 9:00:00 AM to 4/17/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 09:00:14	0.4400 ppm
	4/17/2019 09:02:44	0.3000 ppm
	4/17/2019 09:05:21	0.1400 ppm
	4/17/2019 09:04:42	0.0400 ppm
	4/17/2019 09:04:51	0.1100 ppm
	4/17/2019 09:10:49	0.1000 ppm
	4/17/2019 09:08:41	0.3800 ppm
	4/17/2019 09:17:17	0.3200 ppm
	4/17/2019 09:18:55	0.3700 ppm
	4/17/2019 09:15:26	0.1500 ppm
	4/17/2019 09:21:15	0.1100 ppm
	4/17/2019 09:24:46	0.0500 ppm
	4/17/2019 09:30:10	0.2900 ppm
	4/17/2019 09:26:01	0.4100 ppm
	4/17/2019 09:29:17	0.0600 ppm
	4/17/2019 09:31:48	0.0700 ppm
	4/17/2019 09:33:21	0.0900 ppm
	4/17/2019 09:15:10	0.3700 ppm
	4/17/2019 09:35:11	0.3700 ppm
	4/17/2019 09:36:02	0.3300 ppm
	4/17/2019 09:20:20	0.4600 ppm
	4/17/2019 09:40:42	0.3800 ppm
	4/17/2019 09:43:13	0.1200 ppm
	4/17/2019 09:40:28	0.1000 ppm
	4/17/2019 09:46:00	0.0500 ppm
	4/17/2019 09:46:33	0.1200 ppm
	4/17/2019 09:45:04	0.1750 ppm
	4/17/2019 09:46:09	0.0300 ppm
	4/17/2019 09:47:56	0.4200 ppm
	4/17/2019 09:49:47	0.3700 ppm
	4/17/2019 09:52:42	0.0900 ppm
	4/17/2019 09:53:45	0.2100 ppm
	4/17/2019 09:23:42	0.1300 ppm
	4/17/2019 09:45:40	0.0100 ppm
	4/17/2019 09:14:01	0.1200 ppm
	4/17/2019 09:53:53	0.0300 ppm
Impacted Tank Farm	4/17/2019 09:31:51	0.0300 ppm
	4/17/2019 09:54:48	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 9:00:00 AM to 4/17/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/12/2019 9:26:52 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190412_0300_benzene_report.pdf; 20190412_0400_benzene_report.pdf

All,

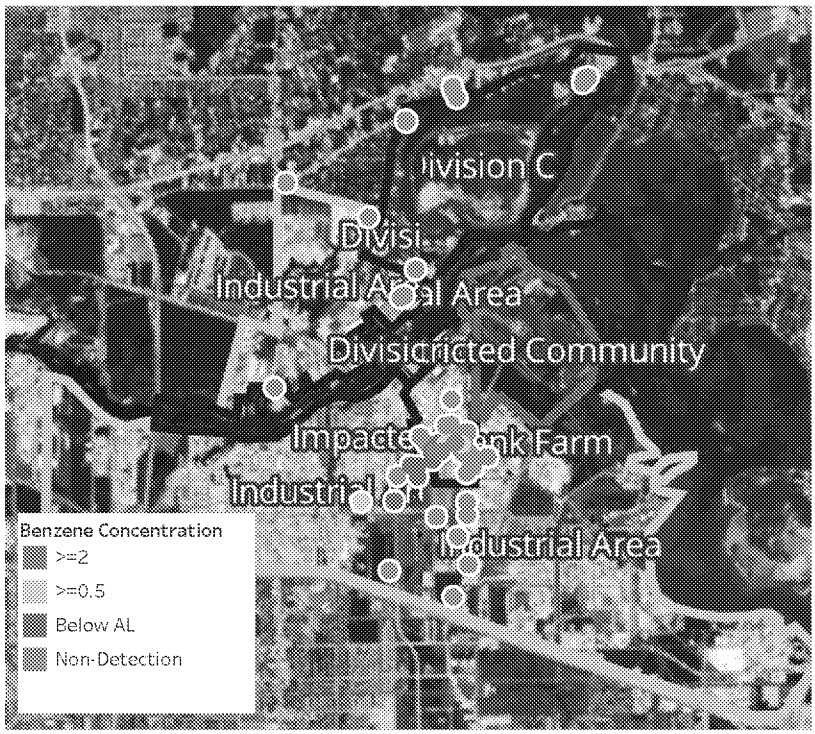
Attached are the benzene reports for 0200 to 0400.

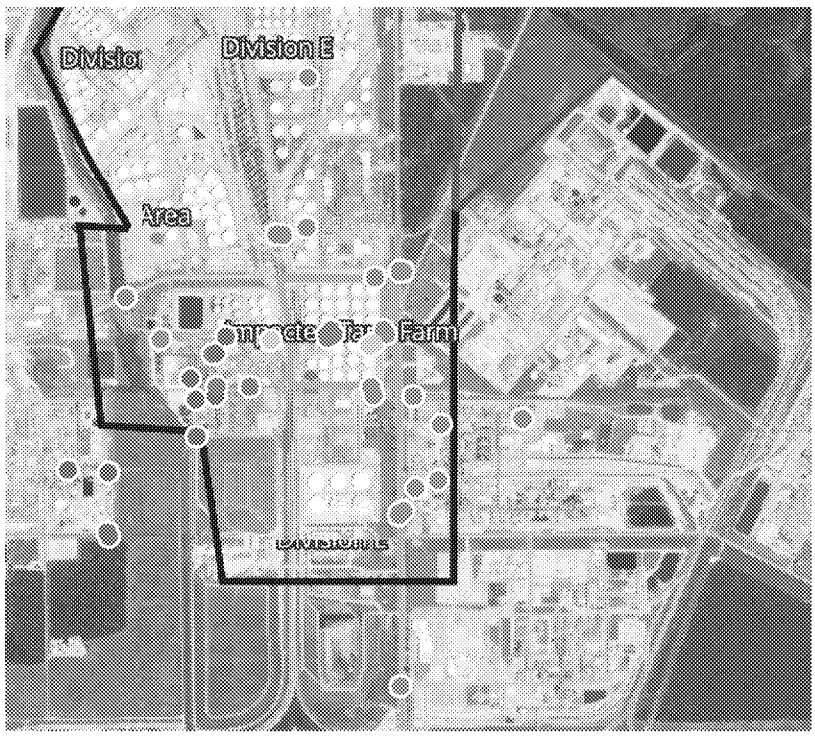
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 2:00:00 AM to 4/12/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 02:03:33	0.125 ppm
	4/12/2019 02:09:23	0.150 ppm
	4/12/2019 02:41:21	2.875 ppm
	4/12/2019 02:51:03	2.300 ppm
	4/12/2019 02:56:31	0.175 ppm
	4/12/2019 02:48:24	0.650 ppm
	4/12/2019 03:02:03	0.175 ppm
	4/12/2019 03:05:35	0.125 ppm
	4/12/2019 03:08:57	0.300 ppm
Impacted Tank Farm	4/12/2019 02:15:14	5.810 ppm
	4/12/2019 02:18:37	5.690 ppm
	4/12/2019 02:20:12	6.340 ppm
	4/12/2019 02:26:14	5.180 ppm
	4/12/2019 02:44:13	4.090 ppm
	4/12/2019 02:19:16	5.100 ppm
	4/12/2019 02:32:54	2.540 ppm
	4/12/2019 02:16:35	9.140 ppm
	4/12/2019 02:54:28	0.630 ppm
	4/12/2019 02:52:36	0.890 ppm
Industrial Area	4/12/2019 02:06:56	0.060 ppm
	4/12/2019 03:03:42	0.250 ppm
	4/12/2019 02:55:52	0.020 ppm
	4/12/2019 02:38:01	0.410 ppm
	4/12/2019 03:11:44	0.160 ppm
	4/12/2019 03:22:22	0.600 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 2:00:00 AM to 4/12/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

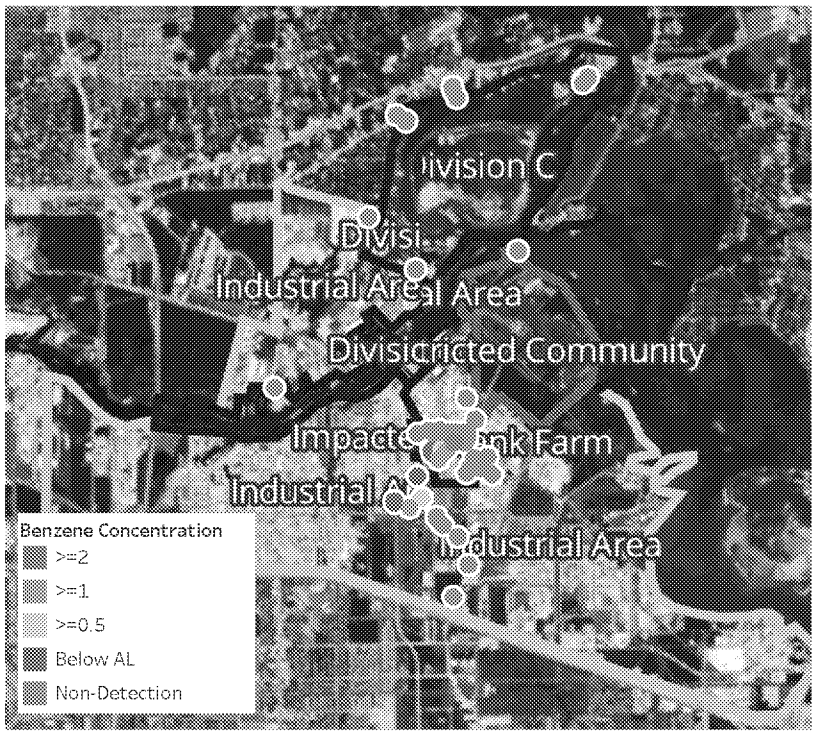
PRELIMINARY

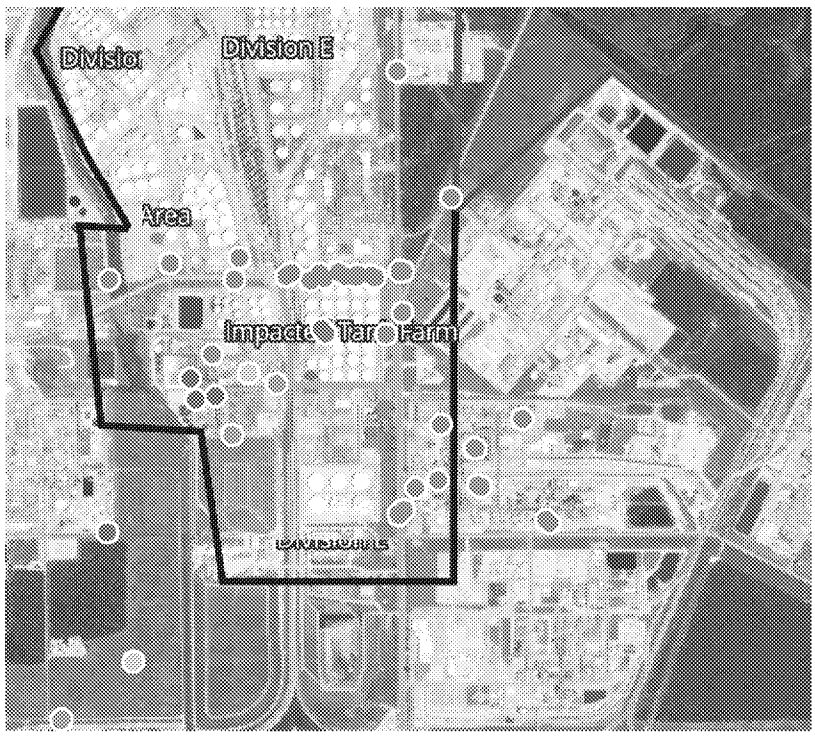
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 03:35:08	Division E	29.7303830,-95.0935790	https://www.google.com/maps/search/?api=1&query=29.7303830,-95.0935790	1.750 ppm
4/12/2019 02:51:03	Division E	29.7303000,-95.0954160	https://www.google.com/maps/search/?api=1&query=29.7303000,-95.0954160	2.300 ppm
4/12/2019 02:44:13	Impacted Tank Farm	29.7316680,-95.0919500	https://www.google.com/maps/search/?api=1&query=29.7316680,-95.0919500	4.090 ppm
4/12/2019 02:41:21	Division E	29.7302000,-95.0943940	https://www.google.com/maps/search/?api=1&query=29.7302000,-95.0943940	2.875 ppm
4/12/2019 02:32:54	Impacted Tank Farm	29.7316600,-95.0919470	https://www.google.com/maps/search/?api=1&query=29.7316600,-95.0919470	2.540 ppm
4/12/2019 02:26:14	Impacted Tank Farm	29.7316970,-95.0918440	https://www.google.com/maps/search/?api=1&query=29.7316970,-95.0918440	5.180 ppm
4/12/2019 02:20:12	Impacted Tank Farm	29.7317080,-95.0919830	https://www.google.com/maps/search/?api=1&query=29.7317080,-95.0919830	6.340 ppm
4/12/2019 02:19:16	Impacted Tank Farm	29.7315900,-95.0920210	https://www.google.com/maps/search/?api=1&query=29.7315900,-95.0920210	5.100 ppm
4/12/2019 02:18:37	Impacted Tank Farm	29.7316870,-95.0920520	https://www.google.com/maps/search/?api=1&query=29.7316870,-95.0920520	5.690 ppm
4/12/2019 02:16:35	Impacted Tank Farm	29.7316420,-95.0919270	https://www.google.com/maps/search/?api=1&query=29.7316420,-95.0919270	9.140 ppm
4/12/2019 02:15:14	Impacted Tank Farm	29.7316050,-95.0919250	https://www.google.com/maps/search/?api=1&query=29.7316050,-95.0919250	5.810 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 3:00:00 AM to 4/12/2019 4:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 03:02:03	0.18 ppm
	4/12/2019 03:05:35	0.13 ppm
	4/12/2019 03:08:57	0.30 ppm
	4/12/2019 03:35:08	1.75 ppm
	4/12/2019 03:29:37	0.75 ppm
	4/12/2019 03:30:33	1.68 ppm
Impacted Tank Farm	4/12/2019 03:50:35	20.63 ppm
	4/12/2019 03:56:16	12.12 ppm
Industrial Area	4/12/2019 03:03:42	0.25 ppm
	4/12/2019 03:11:44	0.16 ppm
	4/12/2019 03:22:22	0.50 ppm
	4/12/2019 03:32:29	1.46 ppm
	4/12/2019 03:37:42	0.09 ppm
	4/12/2019 03:43:16	0.27 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 3:00:00 AM to 4/12/2019 4:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 03:56:16	Impacted Tank Farm	29.7518300,-95.0922040	https://www.google.com/maps/search/?api=1&query=29.7518300,-95.0922040	12.12 ppm
4/12/2019 03:50:35	Impacted Tank Farm	29.7317070,-95.0920960	https://www.google.com/maps/search/?api=1&query=29.7317070,-95.0920960	20.63 ppm
4/12/2019 03:35:08	Division E	29.7302830,-95.0935790	https://www.google.com/maps/search/?api=1&query=29.7302830,-95.0935790	1.75 ppm
4/12/2019 03:32:29	Industrial Area	29.7215070,-95.1001330	https://www.google.com/maps/search/?api=1&query=29.7215070,-95.1001330	1.46 ppm
4/12/2019 03:30:33	Division E	29.7290260,-95.0949330	https://www.google.com/maps/search/?api=1&query=29.7290260,-95.0949330	1.68 ppm

Message

From: Moore, Gary [Moore.Gary@epa.gov]
Sent: 4/17/2019 1:38:49 PM
To: Patel, Anish [patel.anish@epa.gov]
CC: Spall, Amy [amy.spall@westonsolutions.com]
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC
Attachments: Treatability Study.pdf; Plan for Managing Incident Wastewater On-Site.pdf

From: Martin, John
Sent: Sunday, April 07, 2019 2:08 PM
To: Fisher, Kelsey <fisher.kelsey@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC

FYI

John J. Martin
Federal On-Scene Coordinator (OSC)
1445 Ross Ave (6SF-ER)
Dallas, Texas 75202

214.665.6748 * *fax 214.665.2278*

From: Brent Weber <bweber@iterm.com>
Sent: Sunday, April 07, 2019 1:02 PM
To: spill12 <spill12@tceq.texas.gov>; kelly.cook@tceq.texas.gov
Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Travis Lay <Travis.Lay@Tceq.Texas.Gov>; Martin, John <martin.john@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; david.galindo@tceq.texas.gov; Bob Patton <bob.patton@tceq.texas.gov>; tmitchel@tceq.texas.gov; aileen.hooks@bakerbotts.com; molly.cagle@bakerbotts.com; matthew.kuryla@bakerbotts.com; harrison.reback@bakerbotts.com
Subject: WWTS Plan For Managing Incident Wastewater - ITC

Please find attached the Plan for Managing Incident Wastewater On-Site and accompanying Treatability Study. Please review and advise. In addition, please send what you believe is the appropriate sampling and monitoring protocol as soon as possible.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/12/2019 7:38:50 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0200 Benzene Update
Attachments: 20190412_0200_benzene_report.pdf; 20190412_0100_benzene_report.pdf

All,

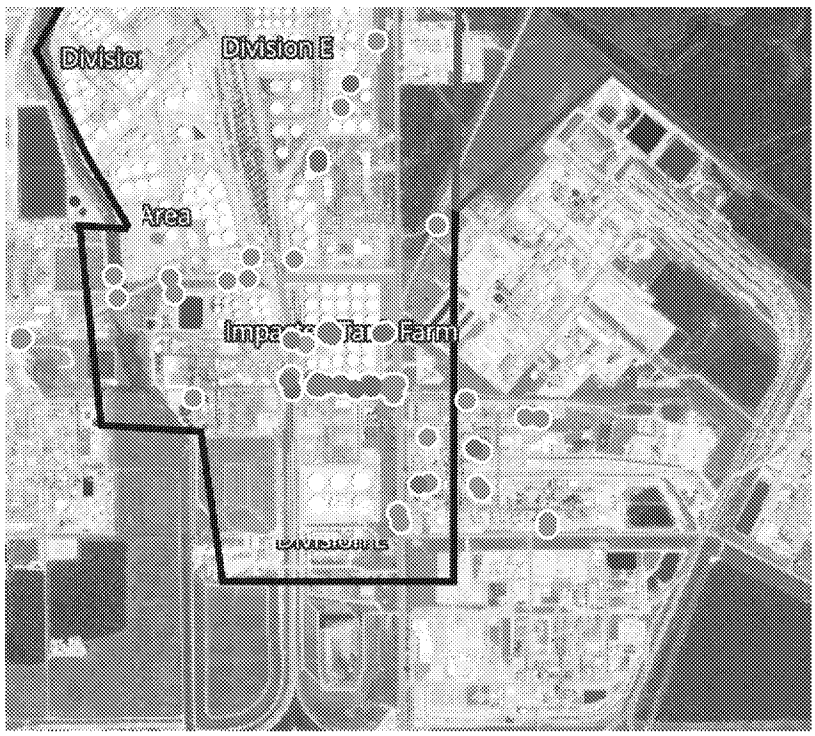
Attached are the benzene reports for 2400 to 0200.

Thank you,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 12:00:00 AM to 4/12/2019 1:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 00:08:54	0.02 ppm
	4/12/2019 00:16:54	0.10 ppm
	4/12/2019 00:16:53	0.01 ppm
	4/12/2019 00:09:51	4.28 ppm
	4/12/2019 00:13:15	2.07 ppm
	4/12/2019 00:19:12	0.13 ppm
	4/12/2019 00:06:10	3.42 ppm
	4/12/2019 00:20:48	0.42 ppm
	4/12/2019 00:25:28	0.31 ppm
	4/12/2019 00:29:52	0.13 ppm
	4/12/2019 00:31:20	0.23 ppm
	4/12/2019 00:44:25	0.18 ppm
	4/12/2019 00:35:30	3.92 ppm
	4/12/2019 00:48:09	1.23 ppm
	4/12/2019 00:32:16	3.05 ppm
	4/12/2019 00:41:25	5.70 ppm
	4/12/2019 00:28:51	3.13 ppm
	4/12/2019 00:52:20	2.17 ppm
	4/12/2019 00:37:20	0.03 ppm
Impacted Tank Farm	4/12/2019 00:20:28	1.21 ppm
	4/12/2019 00:26:03	5.85 ppm
	4/12/2019 00:31:33	7.43 ppm
	4/12/2019 00:29:43	6.61 ppm
	4/12/2019 00:28:22	8.98 ppm
	4/12/2019 00:25:13	6.93 ppm
	4/12/2019 00:30:26	6.25 ppm
	4/12/2019 00:27:09	4.37 ppm
	4/12/2019 00:31:38	6.66 ppm
	4/12/2019 00:33:33	4.55 ppm
	4/12/2019 00:34:59	12.90 ppm
	4/12/2019 00:40:34	7.61 ppm
	4/12/2019 00:37:58	4.00 ppm
	4/12/2019 00:49:13	3.27 ppm
	4/12/2019 00:49:04	3.96 ppm
	4/12/2019 00:45:31	5.97 ppm
	4/12/2019 00:40:00	8.19 ppm
	4/12/2019 00:45:46	3.75 ppm
	4/12/2019 00:55:39	0.05 ppm
	4/12/2019 00:55:30	0.09 ppm
Industrial Area	4/12/2019 00:05:45	0.03 ppm
	4/12/2019 00:22:11	0.20 ppm
	4/12/2019 00:28:17	0.14 ppm
	4/12/2019 00:30:30	0.03 ppm
	4/12/2019 00:51:57	0.06 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 12:00:00 AM to 4/12/2019 1:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

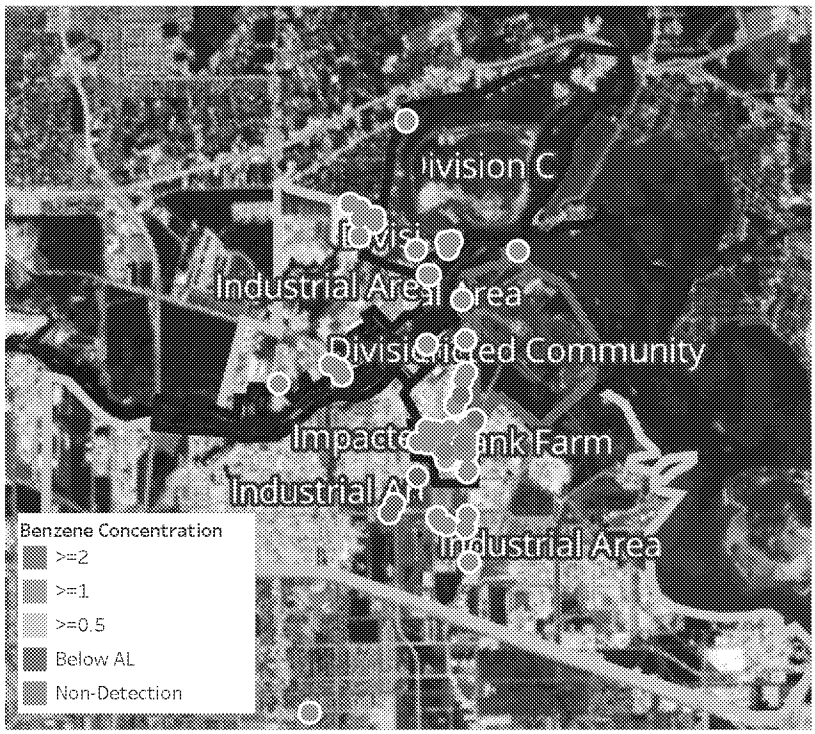
PRELIMINARY

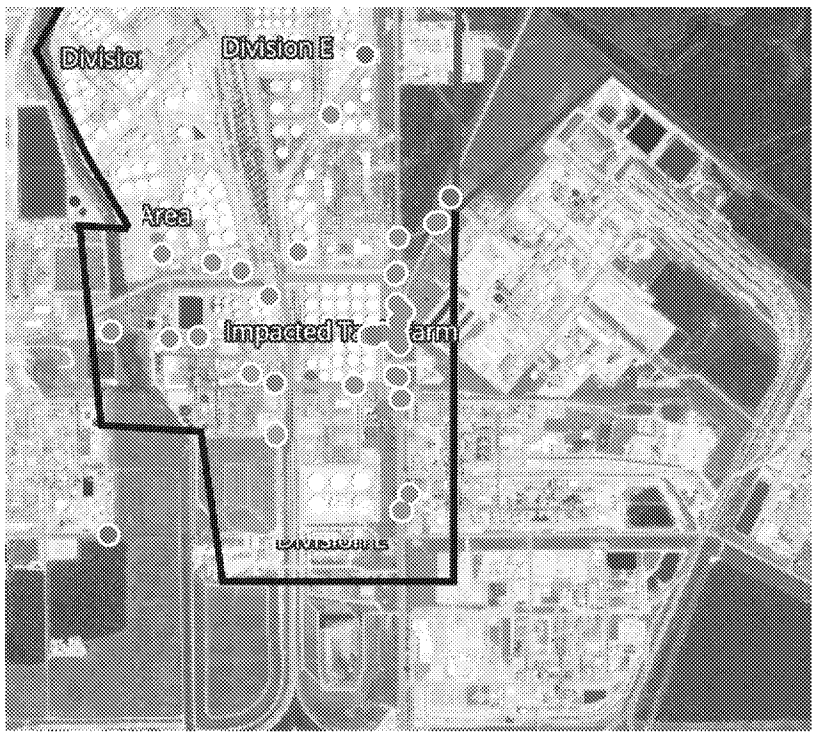
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 00:52:20	Division E	29.7515340,-95.0931230	https://www.google.com/maps/search/?api=1&query=29.7515340,-95.0931230	2.17 ppm
4/12/2019 00:49:13	Impacted Tank Farm	29.7317350,-95.0919600	https://www.google.com/maps/search/?api=1&query=29.7317350,-95.0919600	3.27 ppm
4/12/2019 00:49:04	Impacted Tank Farm	29.7317260,-95.0918700	https://www.google.com/maps/search/?api=1&query=29.7317260,-95.0918700	3.96 ppm
4/12/2019 00:48:09	Division E	29.7305920,-95.0931310	https://www.google.com/maps/search/?api=1&query=29.7305920,-95.0931310	1.23 ppm
4/12/2019 00:45:46	Impacted Tank Farm	29.7317290,-95.0920710	https://www.google.com/maps/search/?api=1&query=29.7317290,-95.0920710	3.75 ppm
4/12/2019 00:45:31	Impacted Tank Farm	29.7317900,-95.0919890	https://www.google.com/maps/search/?api=1&query=29.7317900,-95.0919890	5.97 ppm
4/12/2019 00:41:25	Division E	29.7504710,-95.0932430	https://www.google.com/maps/search/?api=1&query=29.7504710,-95.0932430	5.70 ppm
4/12/2019 00:40:34	Impacted Tank Farm	29.7317310,-95.0918990	https://www.google.com/maps/search/?api=1&query=29.7317310,-95.0918990	7.61 ppm
4/12/2019 00:40:00	Impacted Tank Farm	29.7317410,-95.0919990	https://www.google.com/maps/search/?api=1&query=29.7317410,-95.0919990	8.19 ppm
4/12/2019 00:37:58	Impacted Tank Farm	29.7317530,-95.0919640	https://www.google.com/maps/search/?api=1&query=29.7317530,-95.0919640	4.00 ppm
4/12/2019 00:35:30	Division E	29.7505750,-95.0916280	https://www.google.com/maps/search/?api=1&query=29.7505750,-95.0916280	3.92 ppm
4/12/2019 00:34:59	Impacted Tank Farm	29.7317290,-95.0919870	https://www.google.com/maps/search/?api=1&query=29.7317290,-95.0919870	32.90 ppm
4/12/2019 00:33:33	Impacted Tank Farm	29.7317850,-95.0919310	https://www.google.com/maps/search/?api=1&query=29.7317850,-95.0919310	4.55 ppm
4/12/2019 00:32:16	Division E	29.7302580,-95.0920610	https://www.google.com/maps/search/?api=1&query=29.7302580,-95.0920610	2.05 ppm
4/12/2019 00:31:38	Impacted Tank Farm	29.7317760,-95.0919650	https://www.google.com/maps/search/?api=1&query=29.7317760,-95.0919650	6.66 ppm
4/12/2019 00:31:33	Impacted Tank Farm	29.7316780,-95.0920420	https://www.google.com/maps/search/?api=1&query=29.7316780,-95.0920420	7.43 ppm
4/12/2019 00:30:26	Impacted Tank Farm	29.7316600,-95.0919280	https://www.google.com/maps/search/?api=1&query=29.7316600,-95.0919280	6.25 ppm
4/12/2019 00:29:43	Impacted Tank Farm	29.7317090,-95.0920440	https://www.google.com/maps/search/?api=1&query=29.7317090,-95.0920440	6.61 ppm
4/12/2019 00:28:51	Division E	29.7304360,-95.0923220	https://www.google.com/maps/search/?api=1&query=29.7304360,-95.0923220	3.13 ppm
4/12/2019 00:28:22	Impacted Tank Farm	29.7317180,-95.0919740	https://www.google.com/maps/search/?api=1&query=29.7317180,-95.0919740	8.98 ppm
4/12/2019 00:27:09	Impacted Tank Farm	29.7317600,-95.0919350	https://www.google.com/maps/search/?api=1&query=29.7317600,-95.0919350	4.97 ppm
4/12/2019 00:26:03	Impacted Tank Farm	29.7317190,-95.0919780	https://www.google.com/maps/search/?api=1&query=29.7317190,-95.0919780	6.65 ppm
4/12/2019 00:25:13	Impacted Tank Farm	29.7317000,-95.0919410	https://www.google.com/maps/search/?api=1&query=29.7317000,-95.0919410	6.93 ppm
4/12/2019 00:20:28	Impacted Tank Farm	29.7314160,-95.0926960	https://www.google.com/maps/search/?api=1&query=29.7314160,-95.0926960	1.43 ppm
4/12/2019 00:13:15	Division E	29.7302000,-95.0924100	https://www.google.com/maps/search/?api=1&query=29.7302000,-95.0924100	2.07 ppm
4/12/2019 00:09:51	Division E	29.7302700,-95.0922710	https://www.google.com/maps/search/?api=1&query=29.7302700,-95.0922710	4.26 ppm
4/12/2019 00:06:10	Division E	29.7303290,-95.0916860	https://www.google.com/maps/search/?api=1&query=29.7303290,-95.0916860	3.42 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/12/2019 1:00:00 AM to 4/12/2019 2:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/12/2019 01:08:43	0.975 ppm
	4/12/2019 01:16:18	1.475 ppm
	4/12/2019 01:18:11	0.020 ppm
	4/12/2019 01:23:23	1.525 ppm
	4/12/2019 01:57:19	2.825 ppm
	4/12/2019 01:28:32	0.010 ppm
Impacted Tank Farm	4/12/2019 01:09:56	2.590 ppm
	4/12/2019 01:10:18	1.370 ppm
Industrial Area	4/12/2019 01:10:22	0.190 ppm
	4/12/2019 01:51:40	0.220 ppm
	4/12/2019 01:59:27	0.490 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/12/2019 1:00:00 AM to 4/12/2019 2:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/12/2019 01:57:19	Division E	29.7303940,-95.0936370	https://www.google.com/maps/search/?api=1&query=29.7303940,-95.0936370	2.825 ppm
4/12/2019 01:23:23	Division E	29.7306390,-95.0943650	https://www.google.com/maps/search/?api=1&query=29.7306390,-95.0943650	1.525 ppm
4/12/2019 01:16:18	Division E	29.7290130,-95.0936000	https://www.google.com/maps/search/?api=1&query=29.7290130,-95.0936000	1.475 ppm
4/12/2019 01:10:18	Impacted Tank Farm	29.7316460,-95.0907700	https://www.google.com/maps/search/?api=1&query=29.7316460,-95.0907700	1.370 ppm
4/12/2019 01:09:56	Impacted Tank Farm	29.7316960,-95.0906200	https://www.google.com/maps/search/?api=1&query=29.7316960,-95.0906200	2.590 ppm

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/17/2019 1:06:42 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Report
Attachments: 20190417_0800_Benzene_Report.pdf; 20190417_0700_Benzene_Report.pdf

All,

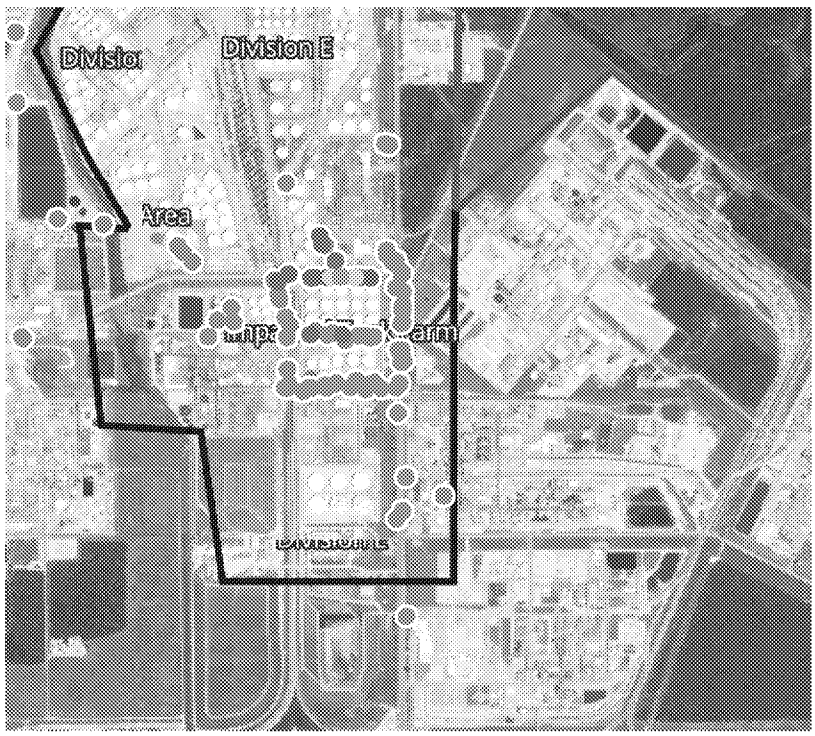
Please see the attached document for benzene readings between 0600-0800 for Independence. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 6:00:00 AM to 4/17/2019 7:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 06:14:02	0.030 ppm
	4/17/2019 06:15:38	0.080 ppm
	4/17/2019 06:17:46	0.250 ppm
	4/17/2019 06:16:45	0.360 ppm
	4/17/2019 06:20:34	1.030 ppm
	4/17/2019 06:24:52	0.740 ppm
	4/17/2019 06:29:38	0.030 ppm
	4/17/2019 06:33:53	0.120 ppm
	4/17/2019 06:36:40	0.540 ppm
	4/17/2019 06:39:23	0.540 ppm
	4/17/2019 06:43:05	0.100 ppm
	4/17/2019 06:45:07	0.040 ppm
	4/17/2019 06:47:18	0.180 ppm
	4/17/2019 06:48:07	0.150 ppm
	4/17/2019 06:45:40	0.240 ppm
Impacted Tank Farm	4/17/2019 06:32:31	0.040 ppm
	4/17/2019 06:40:50	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 6:00:00 AM to 4/17/2019 7:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

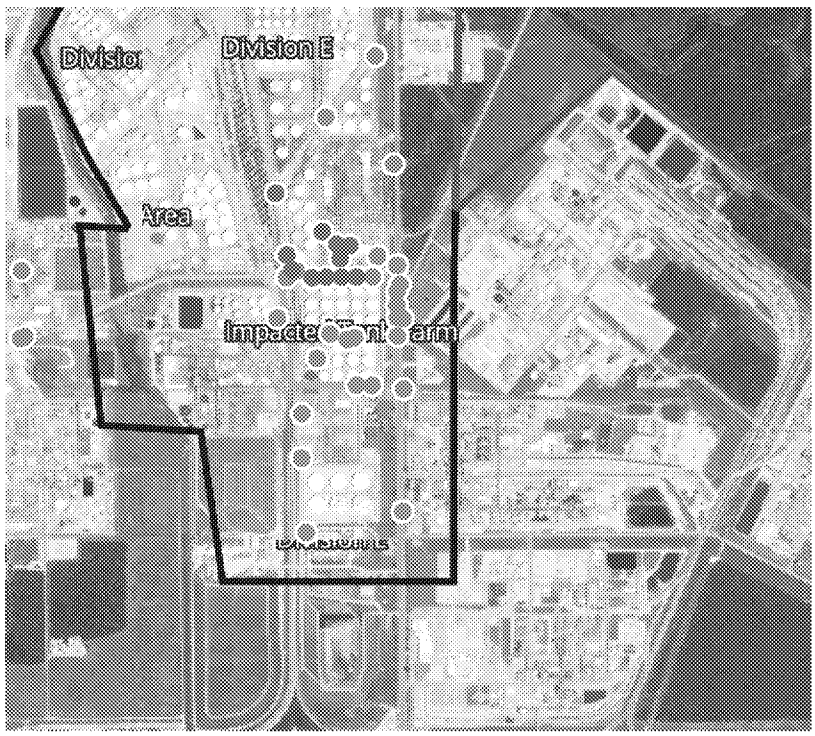
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 06:20:34	Division E	29.7532040,-95.0916330	https://www.google.com/maps/search/?api=1&query=29.7532040,-95.0916330	1.030 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 7:00:00 AM to 4/17/2019 8:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 07:31:04	0.0600 ppm
	4/17/2019 07:31:47	0.1300 ppm
	4/17/2019 07:35:05	0.2400 ppm
	4/17/2019 07:35:16	0.0600 ppm
	4/17/2019 07:36:58	0.2500 ppm
	4/17/2019 07:40:04	0.3800 ppm
	4/17/2019 07:40:26	0.4200 ppm
	4/17/2019 07:44:22	0.4100 ppm
	4/17/2019 07:44:08	0.2000 ppm
	4/17/2019 07:43:31	0.0900 ppm
	4/17/2019 07:47:16	0.1100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 7:00:00 AM to 4/17/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/12/2019 5:37:41 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 2400 Benzene Update
Attachments: Benzene Report_0000.pdf; Benzene Report_2300.pdf

All,

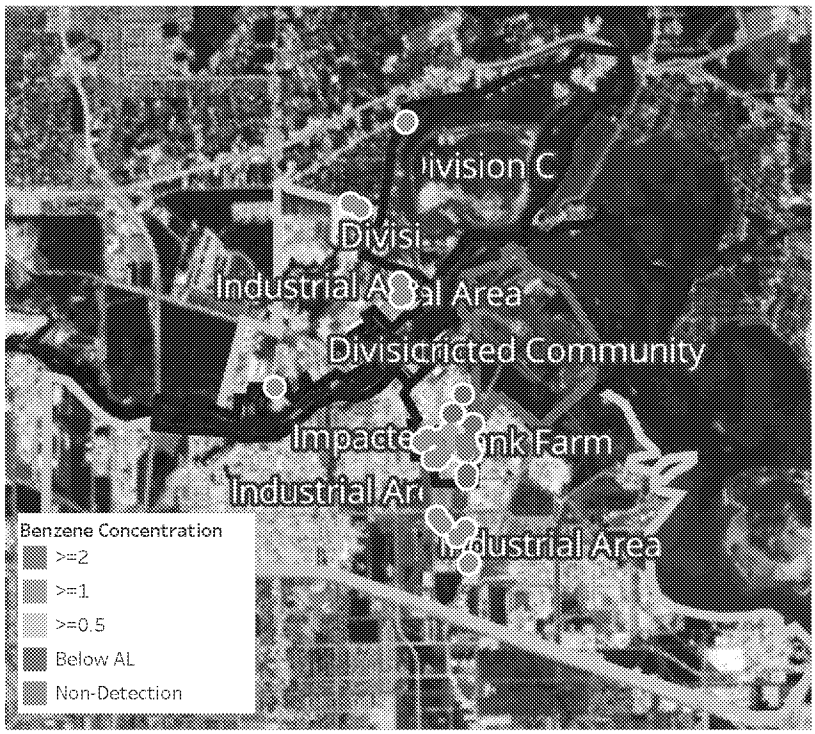
Attached are the benzene reports for 2200 to 2400

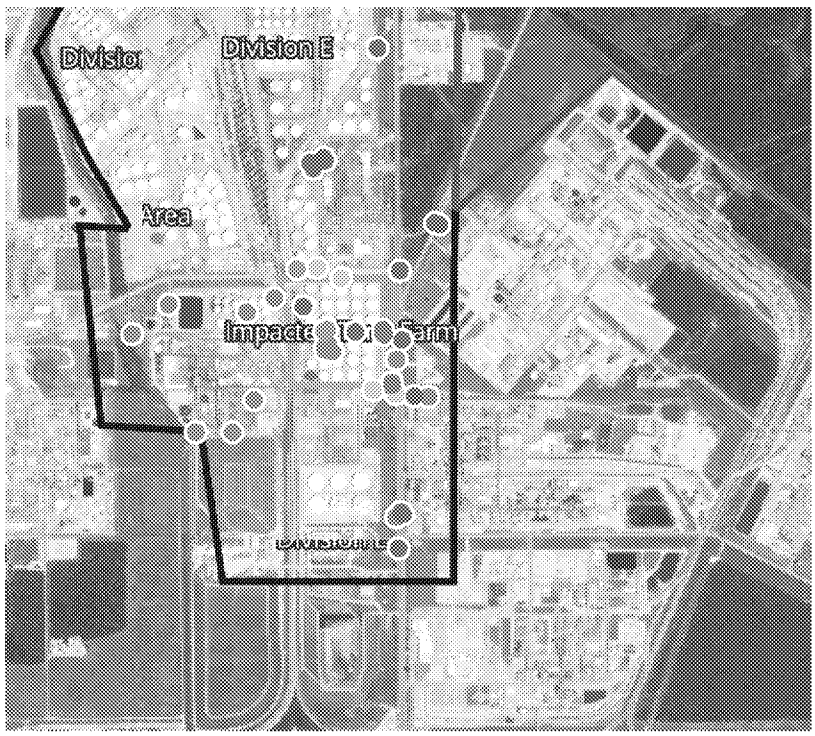
Thank you,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 11:00:00 PM to 4/12/2019 12:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 23:00:55	0.24 ppm
	4/11/2019 23:03:55	0.57 ppm
	4/11/2019 23:03:47	0.12 ppm
	4/11/2019 23:00:28	0.06 ppm
	4/11/2019 23:13:46	0.11 ppm
	4/11/2019 23:20:06	0.19 ppm
	4/11/2019 23:22:50	0.26 ppm
	4/11/2019 23:28:36	0.15 ppm
	4/11/2019 23:28:34	1.02 ppm
	4/11/2019 23:31:47	0.09 ppm
	4/11/2019 23:32:39	0.54 ppm
	4/11/2019 23:29:43	0.18 ppm
	4/11/2019 23:36:40	4.65 ppm
	4/11/2019 23:41:03	0.68 ppm
	4/11/2019 23:44:56	0.09 ppm
	4/11/2019 23:48:28	0.07 ppm
	4/11/2019 23:50:20	0.16 ppm
	4/11/2019 23:55:22	0.09 ppm
	4/11/2019 23:44:57	0.48 ppm
	4/11/2019 23:57:10	0.03 ppm
Impacted Tank Farm	4/11/2019 23:50:00	1.17 ppm
	4/11/2019 23:28:25	0.30 ppm
	4/11/2019 23:51:03	1.76 ppm
	4/11/2019 23:36:56	9.44 ppm
	4/11/2019 23:35:32	16.00 ppm
	4/11/2019 23:42:48	4.34 ppm
	4/11/2019 23:44:31	3.66 ppm
Industrial Area	4/11/2019 23:50:29	0.15 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 11:00:00 PM to 4/12/2019 12:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

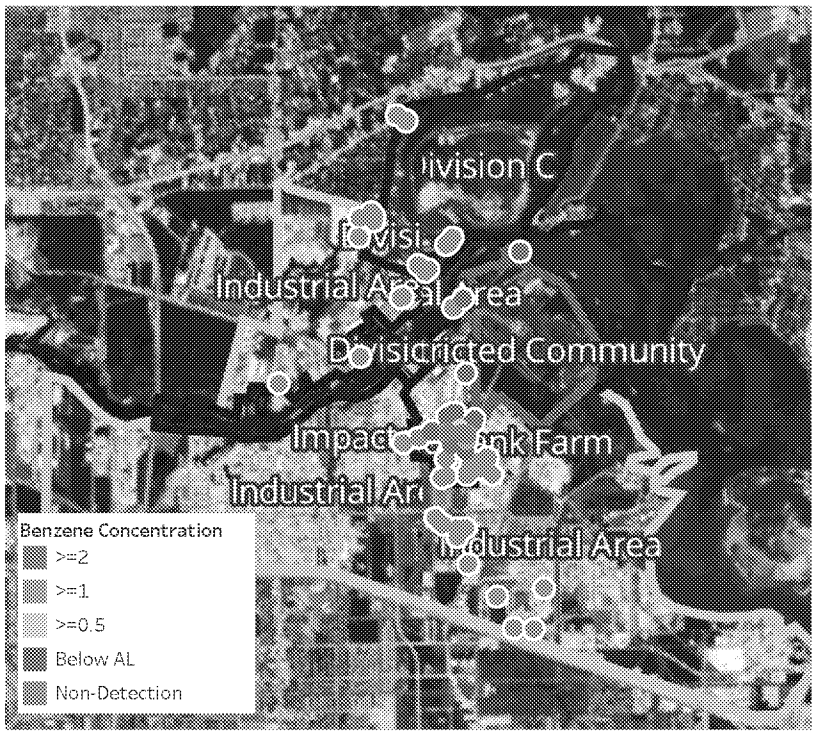
PRELIMINARY

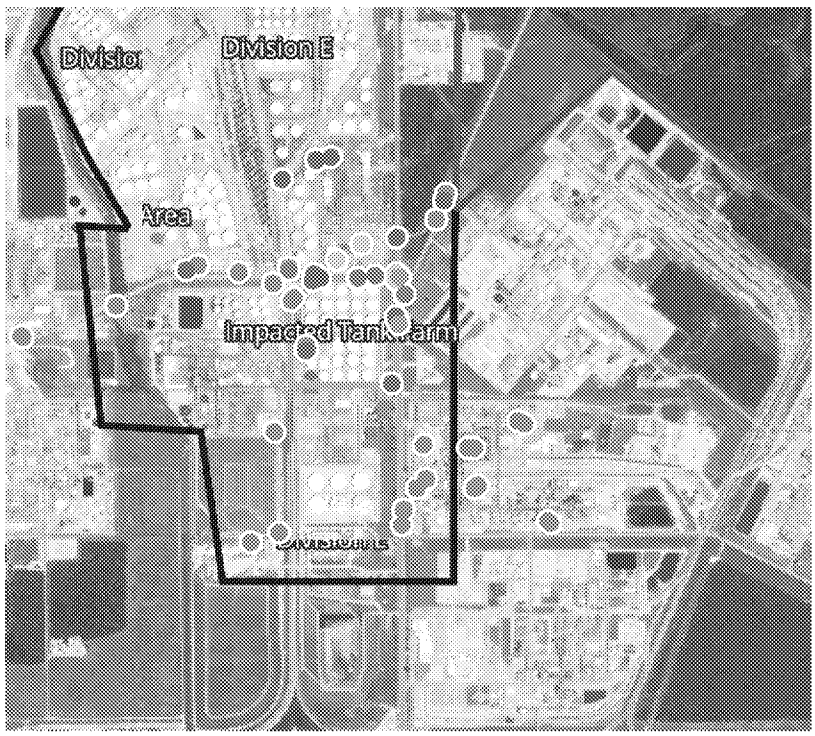
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 23:51:03	Impacted Tank Farm	29.7317710,-95.0920820	https://www.google.com/maps/search/?api=1&query=29.7317710,-95.0920820	1.76 ppm
4/11/2019 23:50:00	Impacted Tank Farm	29.7317520,-95.0921350	https://www.google.com/maps/search/?api=1&query=29.7317520,-95.0921350	1.17 ppm
4/11/2019 23:44:31	Impacted Tank Farm	29.7316810,-95.0903180	https://www.google.com/maps/search/?api=1&query=29.7316810,-95.0903180	3.66 ppm
4/11/2019 23:42:48	Impacted Tank Farm	29.7316740,-95.0903080	https://www.google.com/maps/search/?api=1&query=29.7316740,-95.0903080	4.34 ppm
4/11/2019 23:36:56	Impacted Tank Farm	29.7318100,-95.0903490	https://www.google.com/maps/search/?api=1&query=29.7318100,-95.0903490	9.44 ppm
4/11/2019 23:36:40	Division E	29.7503410,-95.0900690	https://www.google.com/maps/search/?api=1&query=29.7503410,-95.0900690	4.65 ppm
4/11/2019 23:35:32	Impacted Tank Farm	29.7316900,-95.0903350	https://www.google.com/maps/search/?api=1&query=29.7316900,-95.0903350	16.00 ppm
4/11/2019 23:28:34	Division E	29.7334140,-95.0929570	https://www.google.com/maps/search/?api=1&query=29.7334140,-95.0929570	1.02 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 10:00:00 PM to 4/11/2019 11:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 22:05:25	0.23 ppm
	4/11/2019 22:04:44	10.28 ppm
	4/11/2019 22:14:34	0.12 ppm
	4/11/2019 22:22:10	0.91 ppm
	4/11/2019 22:18:44	0.58 ppm
	4/11/2019 22:22:50	1.25 ppm
	4/11/2019 22:27:11	1.46 ppm
	4/11/2019 22:23:26	0.83 ppm
	4/11/2019 22:23:54	1.09 ppm
	4/11/2019 22:29:58	1.91 ppm
	4/11/2019 22:28:09	0.67 ppm
	4/11/2019 22:26:11	0.59 ppm
	4/11/2019 22:27:33	0.65 ppm
	4/11/2019 22:32:54	0.11 ppm
	4/11/2019 22:30:33	0.03 ppm
	4/11/2019 22:35:19	0.76 ppm
	4/11/2019 22:16:18	0.26 ppm
	4/11/2019 22:44:12	1.91 ppm
	4/11/2019 22:09:48	11.81 ppm
	4/11/2019 22:44:00	0.46 ppm
	4/11/2019 22:21:26	0.19 ppm
	4/11/2019 22:30:07	3.06 ppm
	4/11/2019 22:39:57	0.10 ppm
	4/11/2019 22:49:50	0.18 ppm
	4/11/2019 22:48:38	0.21 ppm
	4/11/2019 22:52:11	0.49 ppm
	4/11/2019 22:57:26	0.22 ppm
	4/11/2019 22:57:37	0.20 ppm
	4/11/2019 22:00:08	6.15 ppm
	4/11/2019 22:57:48	0.41 ppm
Impacted Tank Farm	4/11/2019 22:48:32	0.26 ppm
Restricted Community	4/11/2019 22:16:43	0.12 ppm
	4/11/2019 22:28:56	0.04 ppm

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Reading Date
4/11/2019 10:00:00 PM to 4/11/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 22:44:12	Division E	29.7334526,-95.0932109	https://www.google.com/maps/search/?api=1&query=29.7334526,-95.0932109	1.93 ppm
4/11/2019 22:30:07	Division E	29.7327440,-95.0896770	https://www.google.com/maps/search/?api=1&query=29.7327440,-95.0896770	3.06 ppm
4/11/2019 22:29:58	Division E	29.7352040,-95.0898420	https://www.google.com/maps/search/?api=1&query=29.7352040,-95.0898420	1.91 ppm
4/11/2019 22:27:11	Division E	29.7332070,-95.0898170	https://www.google.com/maps/search/?api=1&query=29.7332070,-95.0898170	1.46 ppm
4/11/2019 22:23:54	Division E	29.7332100,-95.0898500	https://www.google.com/maps/search/?api=1&query=29.7332100,-95.0898500	1.09 ppm
4/11/2019 22:22:50	Division E	29.7319547,-95.0898544	https://www.google.com/maps/search/?api=1&query=29.7319547,-95.0898544	1.25 ppm
4/11/2019 22:09:48	Division E	29.7321790,-95.0911040	https://www.google.com/maps/search/?api=1&query=29.7321790,-95.0911040	11.81 ppm
4/11/2019 22:04:44	Division E	29.7332400,-95.0905710	https://www.google.com/maps/search/?api=1&query=29.7332400,-95.0905710	10.28 ppm
4/11/2019 22:00:08	Division E	29.7353894,-95.0932047	https://www.google.com/maps/search/?api=1&query=29.7353894,-95.0932047	6.16 ppm

Message

From: Jason Callahan [jcallahan@cteh.com]
Sent: 4/12/2019 3:15:42 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190411_2100_benzene_report.pdf; 20190411_2200_benzene_report.pdf

All,

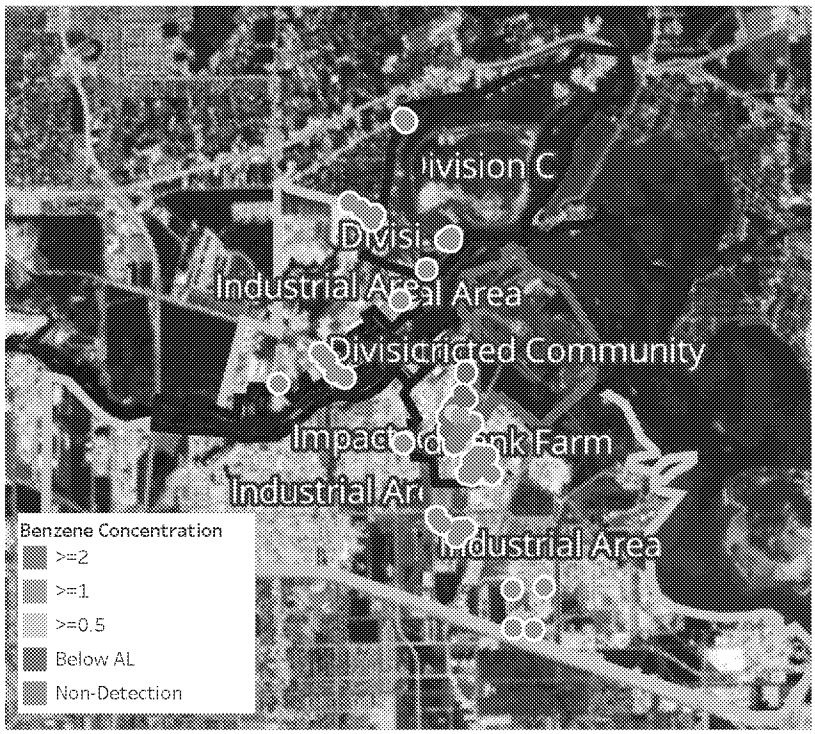
Attached are the benzene reports for 2000 to 2200.

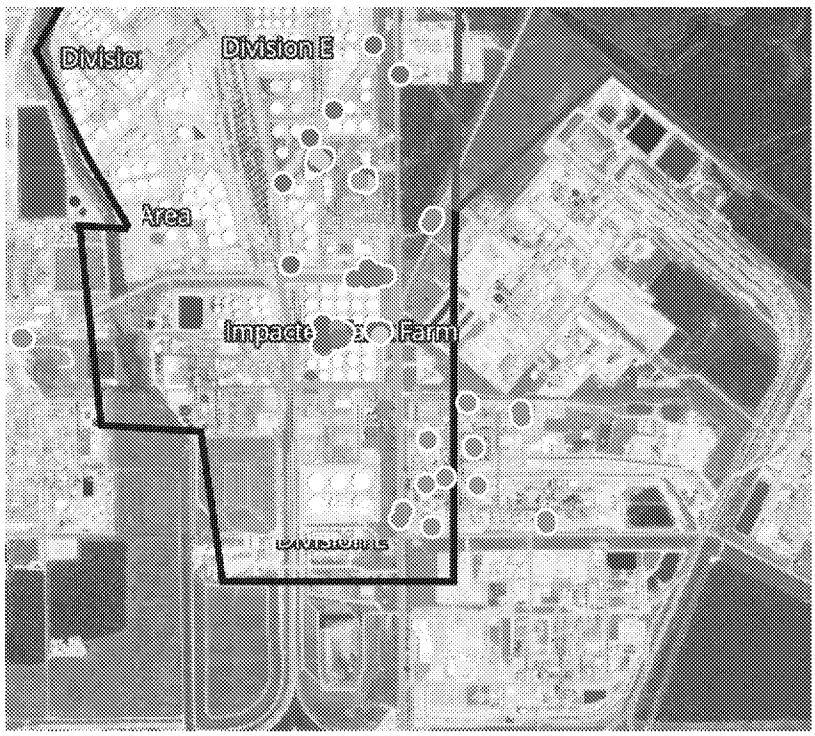
Thank you,

Jason Callahan, M.Sc., CIH
Health Scientist
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-366-8044
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jcallahan@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 8:00:00 PM to 4/11/2019 9:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 20:13:03	0.28 ppm
	4/11/2019 20:15:58	6.14 ppm
	4/11/2019 20:16:09	0.12 ppm
	4/11/2019 20:10:54	0.67 ppm
	4/11/2019 20:00:34	0.12 ppm
	4/11/2019 20:18:19	1.92 ppm
	4/11/2019 20:22:01	11.30 ppm
	4/11/2019 20:11:05	0.19 ppm
	4/11/2019 20:27:49	1.50 ppm
	4/11/2019 20:25:48	0.03 ppm
	4/11/2019 20:21:53	0.48 ppm
	4/11/2019 20:18:42	0.37 ppm
	4/11/2019 20:32:02	0.13 ppm
	4/11/2019 20:33:25	0.85 ppm
	4/11/2019 20:29:08	10.30 ppm
	4/11/2019 20:34:55	0.23 ppm
	4/11/2019 20:35:11	6.62 ppm
	4/11/2019 20:31:02	20.00 ppm
	4/11/2019 20:38:49	7.89 ppm
	4/11/2019 20:29:27	13.30 ppm
	4/11/2019 20:43:00	7.66 ppm
	4/11/2019 20:51:54	0.28 ppm
	4/11/2019 20:53:11	0.03 ppm
	4/11/2019 20:56:18	0.55 ppm
	4/11/2019 20:55:52	7.92 ppm
	4/11/2019 20:53:01	0.29 ppm
	4/11/2019 20:53:23	19.25 ppm
	4/11/2019 20:44:29	3.92 ppm
	4/11/2019 20:59:12	6.86 ppm
	4/11/2019 20:57:07	0.04 ppm
	4/11/2019 20:43:59	0.07 ppm
Impacted Tank Farm	4/11/2019 20:01:51	0.23 ppm
	4/11/2019 20:07:39	0.17 ppm
	4/11/2019 20:00:06	0.08 ppm
	4/11/2019 20:06:49	0.12 ppm
	4/11/2019 20:27:24	0.19 ppm
	4/11/2019 20:24:05	2.73 ppm
	4/11/2019 20:21:45	1.10 ppm
	4/11/2019 20:20:42	0.28 ppm
	4/11/2019 20:23:15	1.78 ppm
	4/11/2019 20:28:43	0.09 ppm
	4/11/2019 20:26:39	0.30 ppm
	4/11/2019 20:56:52	0.13 ppm
	4/11/2019 20:59:13	0.20 ppm
	4/11/2019 20:58:17	0.80 ppm
	4/11/2019 20:56:07	0.29 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 8:00:00 PM to 4/11/2019 9:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

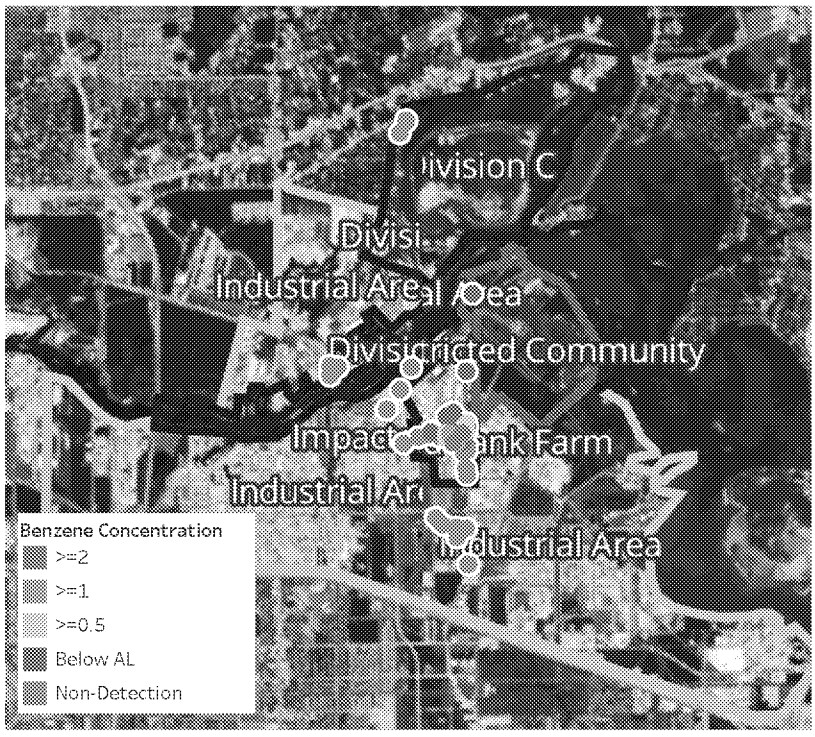
PRELIMINARY

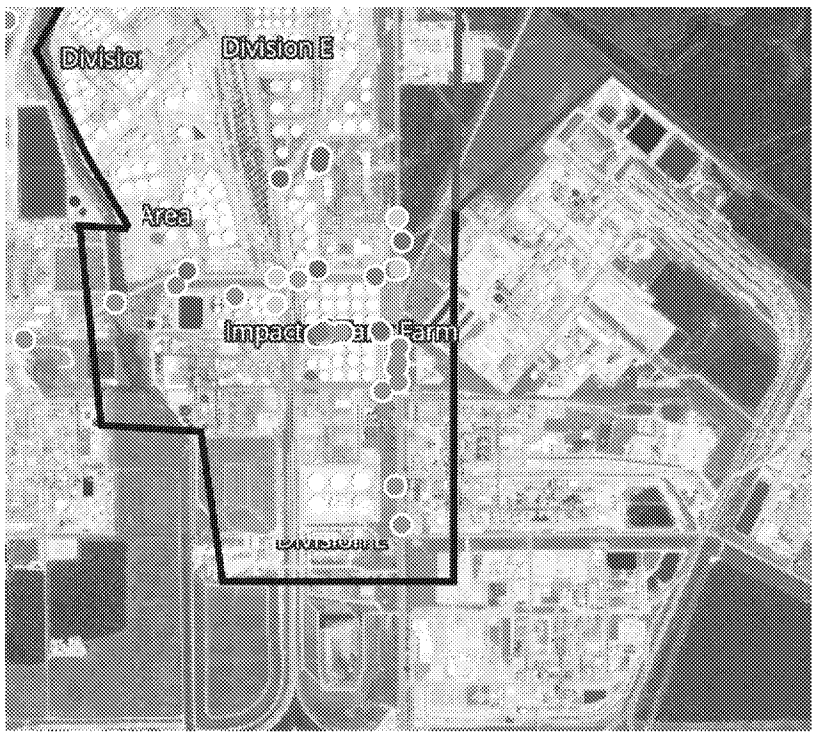
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 20:59:12	Division E	29.7321550,-95.0907980	https://www.google.com/maps/search/?api=1&query=29.7321550,-95.0907980	6.86 ppm
4/11/2019 20:55:52	Division E	29.7331480,-95.0906210	https://www.google.com/maps/search/?api=1&query=29.7331480,-95.0906210	7.92 ppm
4/11/2019 20:53:23	Division E	29.7352030,-95.0906300	https://www.google.com/maps/search/?api=1&query=29.7352030,-95.0906300	13.25 ppm
4/11/2019 20:44:29	Division E	29.7331800,-95.0905360	https://www.google.com/maps/search/?api=1&query=29.7331800,-95.0905360	3.92 ppm
4/11/2019 20:43:00	Division E	29.7333040,-95.0905390	https://www.google.com/maps/search/?api=1&query=29.7333040,-95.0905390	7.66 ppm
4/11/2019 20:38:49	Division E	29.7321500,-95.0912120	https://www.google.com/maps/search/?api=1&query=29.7321500,-95.0912120	7.69 ppm
4/11/2019 20:35:11	Division E	29.7332110,-95.0905930	https://www.google.com/maps/search/?api=1&query=29.7332110,-95.0905930	6.62 ppm
4/11/2019 20:31:02	Division E	29.7333600,-95.0907050	https://www.google.com/maps/search/?api=1&query=29.7333600,-95.0907050	20.00 ppm
4/11/2019 20:29:27	Division E	29.7334360,-95.0908080	https://www.google.com/maps/search/?api=1&query=29.7334360,-95.0908080	13.30 ppm
4/11/2019 20:29:08	Division E	29.7332110,-95.0905990	https://www.google.com/maps/search/?api=1&query=29.7332110,-95.0905990	10.30 ppm
4/11/2019 20:27:49	Division E	29.7322550,-95.0906420	https://www.google.com/maps/search/?api=1&query=29.7322550,-95.0906420	1.50 ppm
4/11/2019 20:24:05	Impacted Tank Farm	29.7315850,-95.0916750	https://www.google.com/maps/search/?api=1&query=29.7315850,-95.0916750	2.73 ppm
4/11/2019 20:23:15	Impacted Tank Farm	29.7318520,-95.0917480	https://www.google.com/maps/search/?api=1&query=29.7318520,-95.0917480	1.78 ppm
4/11/2019 20:22:01	Division E	29.7352400,-95.0906010	https://www.google.com/maps/search/?api=1&query=29.7352400,-95.0906010	11.50 ppm
4/11/2019 20:21:45	Impacted Tank Farm	29.7315630,-95.0915960	https://www.google.com/maps/search/?api=1&query=29.7315630,-95.0915960	1.30 ppm
4/11/2019 20:18:19	Division E	29.7357520,-95.0910460	https://www.google.com/maps/search/?api=1&query=29.7357520,-95.0910460	1.92 ppm
4/11/2019 20:15:58	Division E	29.7322420,-95.0906010	https://www.google.com/maps/search/?api=1&query=29.7322420,-95.0906010	6.14 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 9:00:00 PM to 4/11/2019 10:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 21:04:39	25.00 ppm
	4/11/2019 21:00:29	0.09 ppm
	4/11/2019 21:11:54	1.08 ppm
	4/11/2019 21:16:48	0.28 ppm
	4/11/2019 21:14:17	0.42 ppm
	4/11/2019 21:09:36	0.90 ppm
	4/11/2019 21:18:18	0.52 ppm
	4/11/2019 21:26:48	0.23 ppm
	4/11/2019 21:39:56	0.36 ppm
	4/11/2019 21:39:58	0.16 ppm
	4/11/2019 21:34:04	0.09 ppm
	4/11/2019 21:45:33	0.70 ppm
	4/11/2019 21:53:00	0.75 ppm
Impacted Tank Farm	4/11/2019 21:01:15	0.12 ppm
	4/11/2019 21:17:32	1.53 ppm
	4/11/2019 21:15:29	0.69 ppm
	4/11/2019 21:11:00	0.43 ppm
	4/11/2019 21:10:31	0.13 ppm
	4/11/2019 21:10:00	0.15 ppm
	4/11/2019 21:14:32	0.55 ppm
	4/11/2019 21:16:59	0.05 ppm
	4/11/2019 21:18:08	2.69 ppm
	4/11/2019 21:29:37	1.10 ppm
	4/11/2019 21:25:00	0.16 ppm
	4/11/2019 21:33:17	0.32 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 9:00:00 PM to 4/11/2019 10:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 21:29:37	Impacted Tank Farm	29.7317320,-95.0916260	https://www.google.com/maps/search/?api=1&query=29.7317320,-95.0916260	1.10 ppm
4/11/2019 21:18:08	Impacted Tank Farm	29.7317230,-95.0922720	https://www.google.com/maps/search/?api=1&query=29.7317230,-95.0922720	2.69 ppm
4/11/2019 21:17:32	Impacted Tank Farm	29.7317500,-95.0920980	https://www.google.com/maps/search/?api=1&query=29.7317500,-95.0920980	1.55 ppm
4/11/2019 21:11:54	Division E	29.7331370,-95.0929180	https://www.google.com/maps/search/?api=1&query=29.7331370,-95.0929180	1.08 ppm
4/11/2019 21:04:39	Division E	29.7332170,-95.0905600	https://www.google.com/maps/search/?api=1&query=29.7332170,-95.0905600	25.00 ppm

Message

From: Jason Callahan [jcallahan@cteh.com]
Sent: 4/12/2019 2:09:42 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 2000 Benzene Update
Attachments: 20190411_1900_bezene_update.pdf; 20190411_2000_benzene_report.pdf

All,

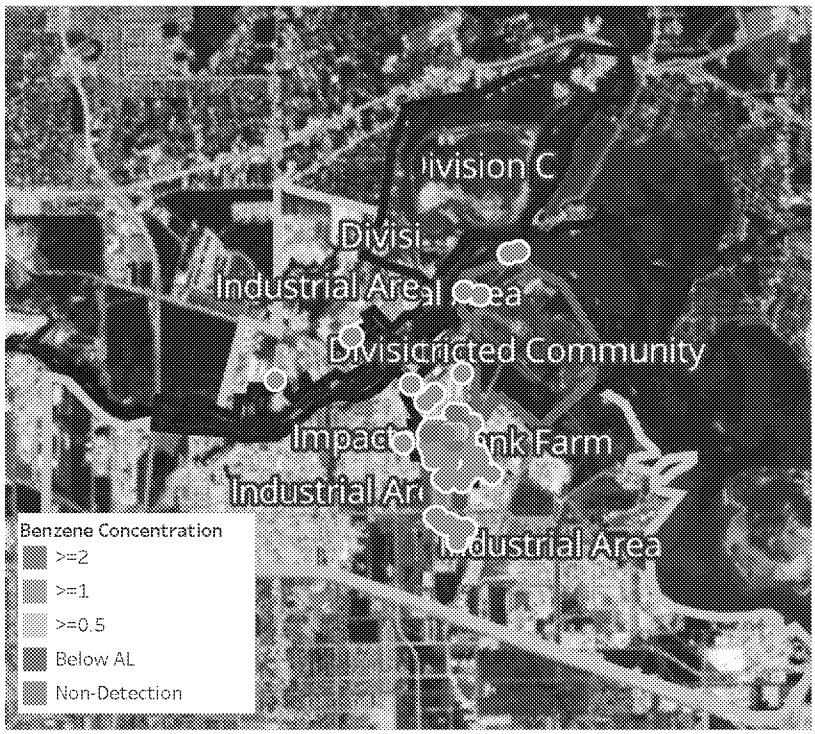
Attached are the benzene reports for 1800 to 2000.

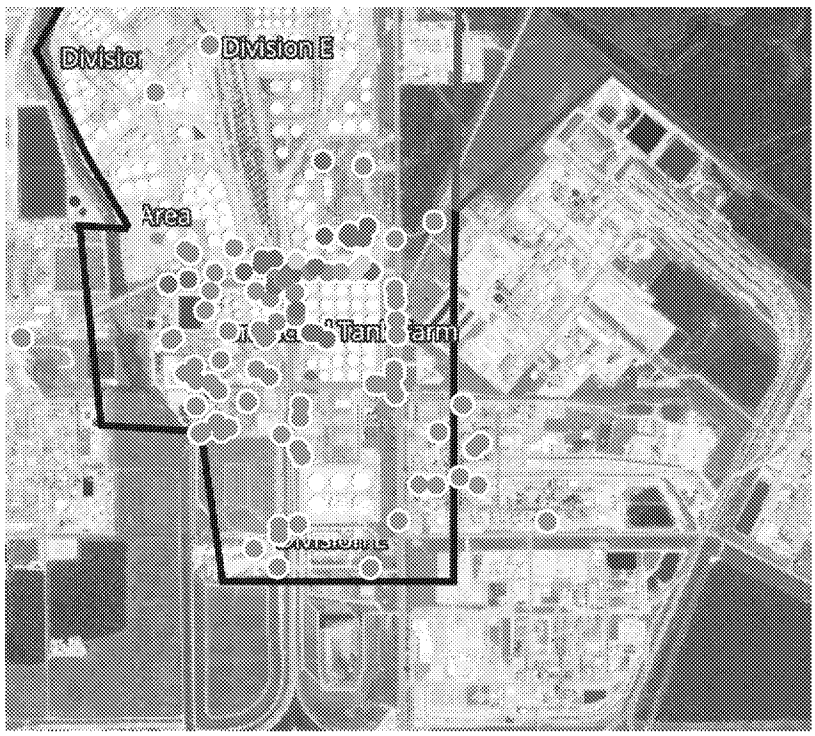
Thank you,

Jason Callahan, M.Sc., CIH
Health Scientist
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-366-8044
Emergency Response 24-Hour Hotline: +1(866) 869-2834
jcallahan@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 6:00:00 PM to 4/11/2019 7:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 18:01:54	0.700 ppm
	4/11/2019 18:06:33	0.300 ppm
	4/11/2019 18:20:07	0.660 ppm
	4/11/2019 18:19:54	0.130 ppm
	4/11/2019 18:24:37	0.100 ppm
	4/11/2019 18:29:29	0.050 ppm
	4/11/2019 18:34:34	0.250 ppm
	4/11/2019 18:36:08	1.070 ppm
	4/11/2019 18:38:44	0.170 ppm
	4/11/2019 18:40:03	0.200 ppm
	4/11/2019 18:41:49	0.320 ppm
	4/11/2019 18:45:19	0.150 ppm
	4/11/2019 18:45:42	0.500 ppm
	4/11/2019 18:28:06	0.030 ppm
	4/11/2019 18:16:40	2.070 ppm
	4/11/2019 18:13:35	0.020 ppm
	4/11/2019 18:47:15	0.080 ppm
	4/11/2019 18:29:57	0.050 ppm
	4/11/2019 18:47:00	0.120 ppm
	4/11/2019 18:44:04	0.480 ppm
	4/11/2019 18:42:09	1.010 ppm
	4/11/2019 18:19:04	0.160 ppm
	4/11/2019 18:20:05	0.040 ppm
	4/11/2019 18:39:35	1.020 ppm
	4/11/2019 18:49:52	0.250 ppm
	4/11/2019 18:55:57	0.125 ppm
	4/11/2019 18:58:21	0.320 ppm
	4/11/2019 18:57:11	0.040 ppm
Impacted Tank Farm	4/11/2019 18:23:39	0.060 ppm
	4/11/2019 18:28:24	0.040 ppm
	4/11/2019 18:53:01	0.030 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/11/2019 6:00:00 PM to 4/11/2019 7:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

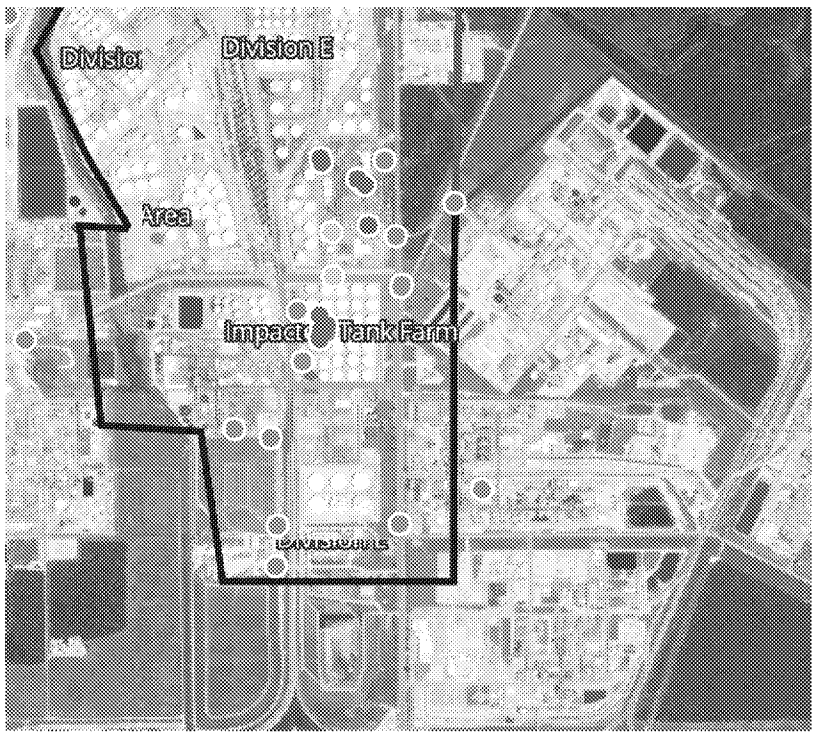
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 18:42:09	Division E	29.7531440,-95.0934340	https://www.google.com/maps/search/?api=1&query=29.7531440,-95.0934340	1.000 ppm
4/11/2019 18:39:35	Division E	29.7330930,-95.0933260	https://www.google.com/maps/search/?api=1&query=29.7330930,-95.0933260	1.020 ppm
4/11/2019 18:36:08	Division E	29.7352980,-95.0916170	https://www.google.com/maps/search/?api=1&query=29.7352980,-95.0916170	1.070 ppm
4/11/2019 18:16:40	Division E	29.7351650,-95.0933500	https://www.google.com/maps/search/?api=1&query=29.7351650,-95.0933500	2.070 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 7:00:00 PM to 4/11/2019 8:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 19:02:21	0.1500 ppm
	4/11/2019 19:02:42	0.4600 ppm
	4/11/2019 19:14:20	0.0400 ppm
	4/11/2019 19:34:05	0.4500 ppm
	4/11/2019 19:42:48	0.0500 ppm
	4/11/2019 19:49:04	0.0800 ppm
	4/11/2019 19:53:07	0.6500 ppm
Impacted Tank Farm	4/11/2019 19:06:45	0.0900 ppm
	4/11/2019 19:38:29	0.0400 ppm
	4/11/2019 19:59:23	0.2800 ppm
	4/11/2019 19:57:20	0.0900 ppm
	4/11/2019 19:53:22	0.1600 ppm
	4/11/2019 19:53:12	0.0600 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/17/2019 7:16:21 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0200 Benzene Updated
Attachments: 20190417_0100_benzene_report.pdf; 20190417_0200_benzene_report.pdf

All,

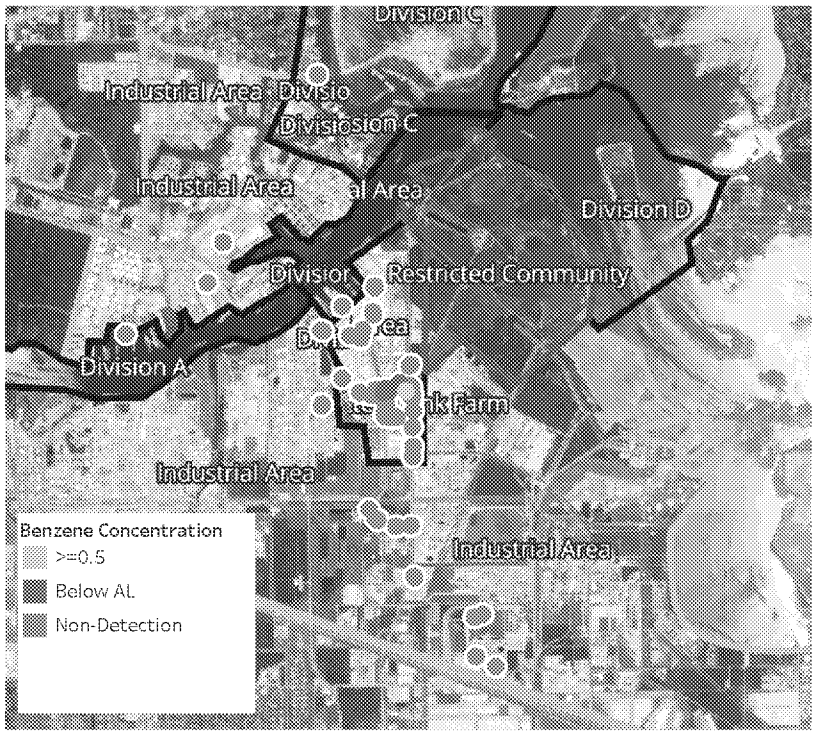
Attached are the benzene reports from 0000 – 0200.

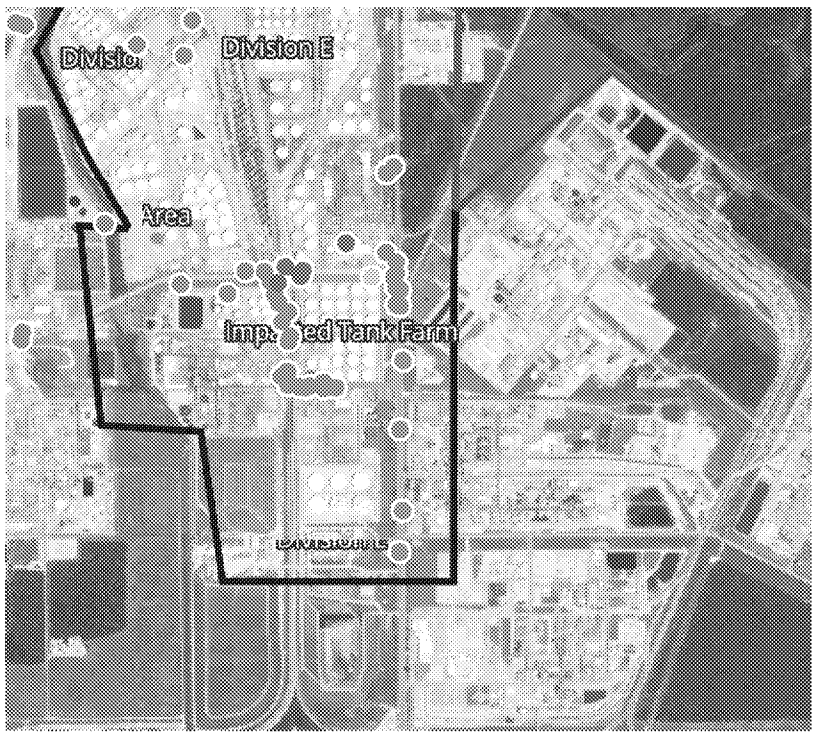
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 12:00:00 AM to 4/17/2019 1:00:00 AM





Recent Benzene Detections

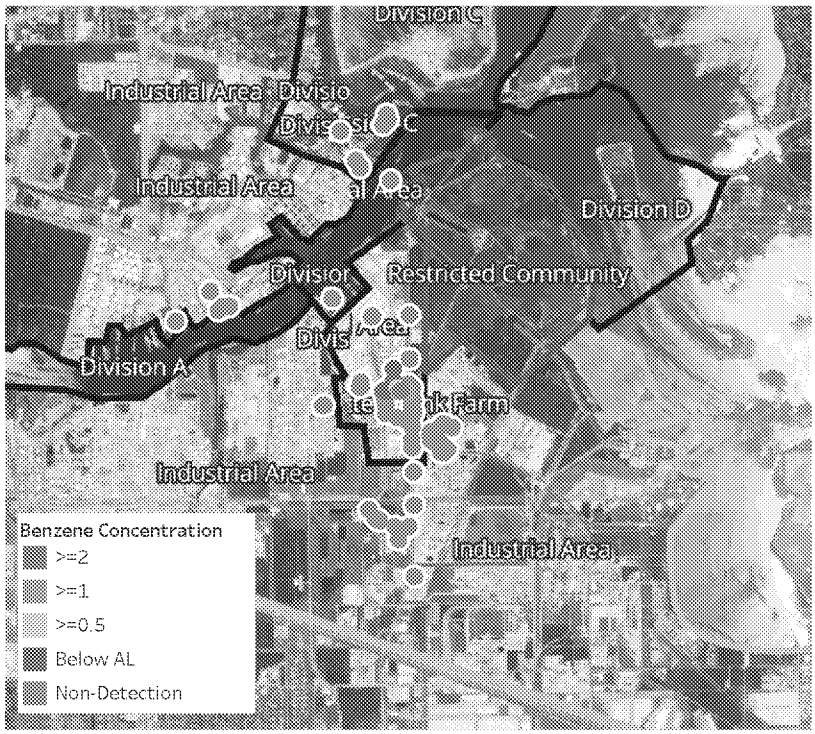
Location Category	Reading Date	Concentration
Division E	4/17/2019 00:00:23	0.2250 ppm
	4/17/2019 00:23:56	0.1750 ppm
	4/17/2019 00:35:51	0.4000 ppm
	4/17/2019 00:05:36	0.0400 ppm
	4/17/2019 00:56:07	0.0800 ppm
	4/17/2019 00:59:51	0.1000 ppm
	4/17/2019 00:43:15	0.2500 ppm

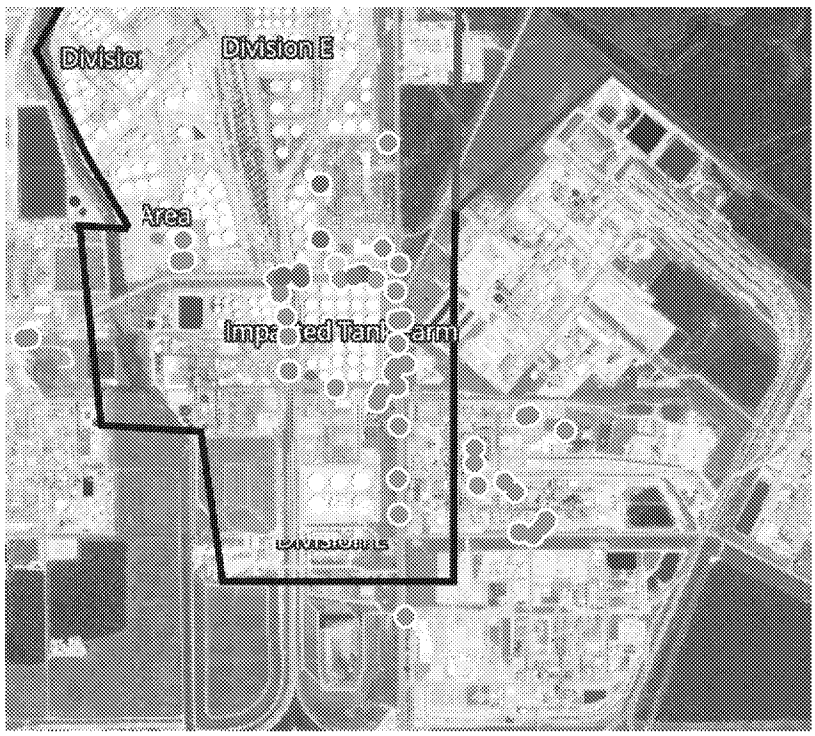
This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 1:00:00 AM to 4/17/2019 2:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 01:00:52	0.050 ppm
	4/17/2019 01:16:55	0.070 ppm
	4/17/2019 01:21:54	0.310 ppm
	4/17/2019 01:25:36	0.300 ppm
	4/17/2019 01:27:52	0.260 ppm
	4/17/2019 01:47:18	2.390 ppm
	4/17/2019 01:45:37	1.350 ppm
	4/17/2019 01:50:08	1.010 ppm
	4/17/2019 01:36:16	0.270 ppm
	4/17/2019 01:12:17	0.225 ppm
	4/17/2019 01:56:30	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 1:00:00 AM to 4/17/2019 2:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 01:50:08	Division E	29.7321330,-95.0905620	https://www.google.com/maps/search/?api=1&query=29.7321330,-95.0905620	1.010 ppm
4/17/2019 01:47:18	Division E	29.7332240,-95.0912310	https://www.google.com/maps/search/?api=1&query=29.7332240,-95.0912310	2.390 ppm
4/17/2019 01:45:37	Division E	29.7351490,-95.0916280	https://www.google.com/maps/search/?api=1&query=29.7351490,-95.0916280	1.390 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/17/2019 5:28:57 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2400 Benzene Update
Attachments: 20190416_2300_benzene_report.pdf; 20190417_0000_benzene_report.pdf

All,

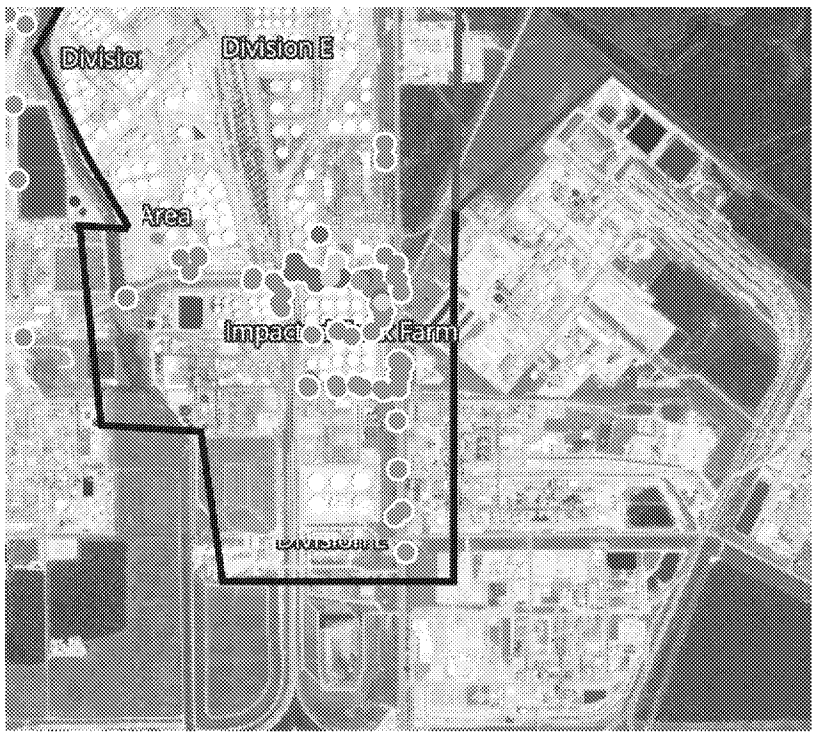
Attached are the benzene reports from 2200 – 2400.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 10:00:00 PM to 4/16/2019 11:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 22:06:58	0.540 ppm
	4/16/2019 22:03:50	0.070 ppm
	4/16/2019 22:09:45	0.340 ppm
	4/16/2019 22:05:01	0.225 ppm
	4/16/2019 22:09:09	0.250 ppm
	4/16/2019 22:11:01	0.340 ppm
	4/16/2019 22:05:12	0.100 ppm
	4/16/2019 22:08:40	0.350 ppm
	4/16/2019 22:12:01	0.150 ppm
	4/16/2019 22:13:10	0.040 ppm
	4/16/2019 22:27:05	0.425 ppm
	4/16/2019 22:21:54	0.400 ppm
	4/16/2019 22:18:37	0.225 ppm
	4/16/2019 22:49:18	0.450 ppm
	4/16/2019 22:56:07	0.175 ppm
	4/16/2019 22:54:59	1.350 ppm
	4/16/2019 22:51:24	0.740 ppm
	4/16/2019 22:57:31	0.060 ppm
	4/16/2019 22:51:19	0.520 ppm
Impacted Tank Farm	4/16/2019 22:36:42	0.160 ppm
	4/16/2019 22:31:23	0.660 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 10:00:00 PM to 4/16/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

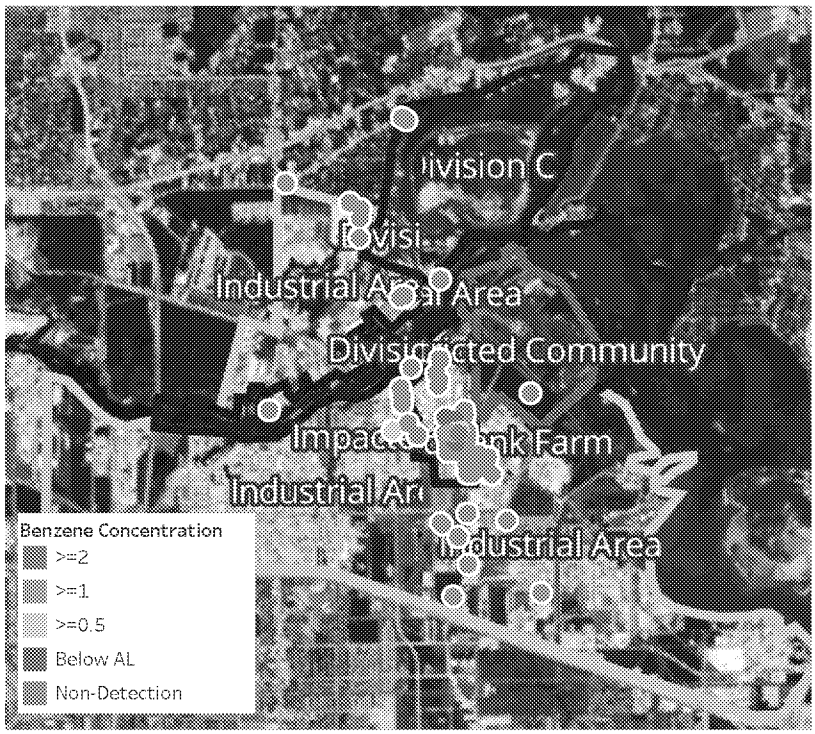
Recent Benzene Detections Greater than 1.00 ppm

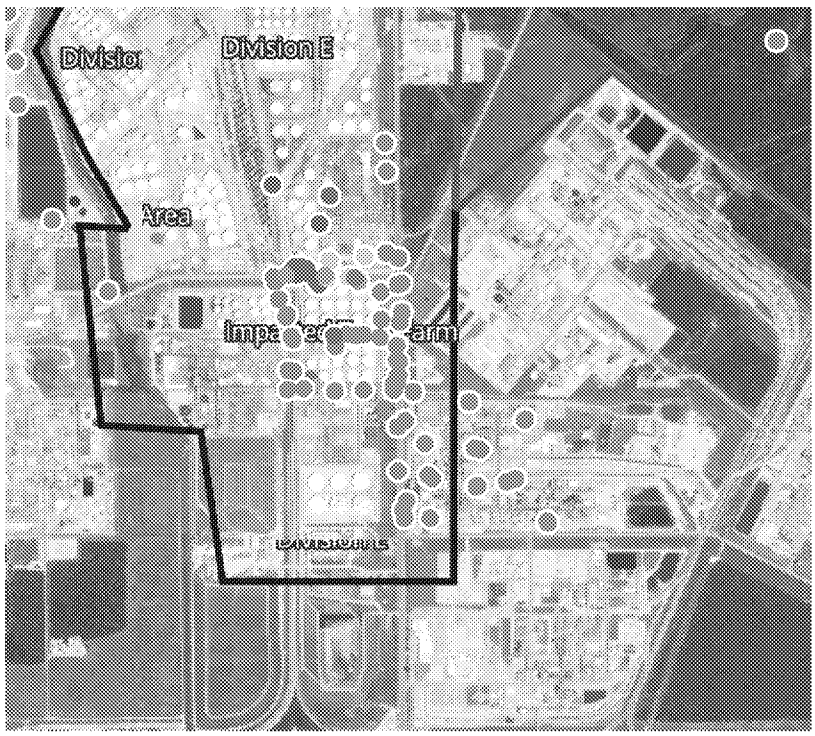
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 22:54:58	Division E	29.7530990,-95.0910320	https://www.google.com/maps/search/?api=1&query=29.7530990,-95.0910320	1.350 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 11:00:00 PM to 4/17/2019 12:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 23:09:33	0.400 ppm
	4/16/2019 23:36:41	0.400 ppm
	4/16/2019 23:40:32	0.225 ppm
	4/16/2019 23:38:55	0.100 ppm
	4/16/2019 23:41:51	0.110 ppm
	4/16/2019 23:48:54	1.890 ppm
	4/16/2019 23:43:12	0.320 ppm
	4/16/2019 23:46:41	0.960 ppm
	4/16/2019 23:49:08	0.050 ppm
	4/16/2019 23:45:32	0.750 ppm
	4/16/2019 23:42:11	0.300 ppm
	4/16/2019 23:34:36	0.600 ppm
	4/16/2019 23:40:43	0.250 ppm
	4/16/2019 23:59:15	2.470 ppm
	4/16/2019 23:54:56	0.810 ppm
	4/16/2019 23:44:30	0.420 ppm
	4/16/2019 23:48:02	1.080 ppm
	4/16/2019 23:58:31	1.650 ppm
	4/16/2019 23:52:20	0.670 ppm
Impacted Tank Farm	4/16/2019 23:14:51	0.040 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 11:00:00 PM to 4/17/2019 12:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 23:59:15	Division E	29.7531880,-95.0912010	https://www.google.com/maps/search/?api=1&query=29.7531880,-95.0912010	2.470 ppm
4/16/2019 23:58:31	Division E	29.7330950,-95.0910820	https://www.google.com/maps/search/?api=1&query=29.7330950,-95.0910820	1.690 ppm
4/16/2019 23:48:54	Division E	29.7352530,-95.0932880	https://www.google.com/maps/search/?api=1&query=29.7352530,-95.0932880	1.990 ppm
4/16/2019 23:48:02	Division E	29.7352450,-95.0921080	https://www.google.com/maps/search/?api=1&query=29.7352450,-95.0921080	1.080 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/17/2019 3:15:56 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190416_2100_benzene_report.pdf; 20190416_2200_benzene_report.pdf

All,

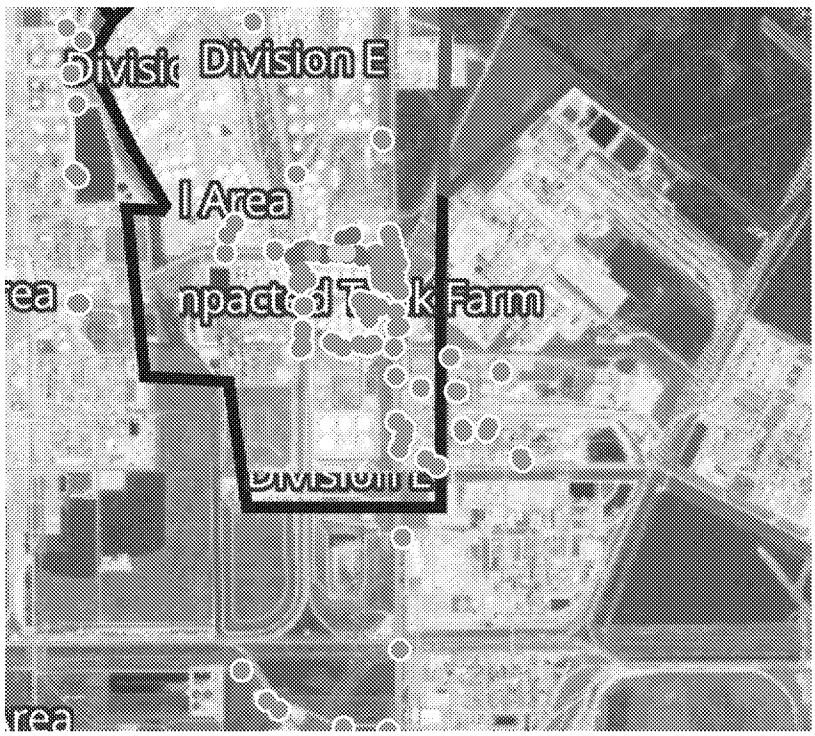
Attached are the benzene reports from 2000 – 2200.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 8:00:00 PM to 4/16/2019 9:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 20:04:07	0.280 ppm
	4/16/2019 20:17:14	0.200 ppm
	4/16/2019 20:21:39	0.490 ppm
	4/16/2019 20:24:24	0.500 ppm
	4/16/2019 20:29:42	0.100 ppm
	4/16/2019 20:19:23	0.300 ppm
	4/16/2019 20:30:31	0.250 ppm
	4/16/2019 20:22:57	0.470 ppm
	4/16/2019 20:30:31	0.160 ppm
	4/16/2019 20:27:17	0.560 ppm
	4/16/2019 20:44:23	0.030 ppm
	4/16/2019 20:40:42	0.080 ppm
	4/16/2019 20:41:08	0.100 ppm
	4/16/2019 20:53:24	0.340 ppm
	4/16/2019 20:32:52	1.530 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 8:00:00 PM to 4/16/2019 9:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

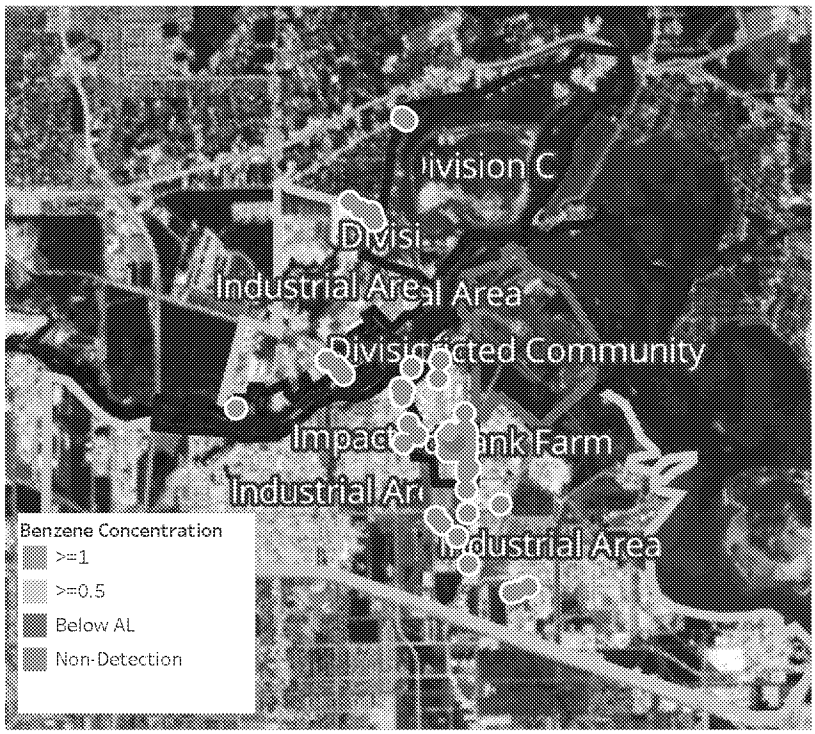
Recent Benzene Detections Greater than 1.00 ppm

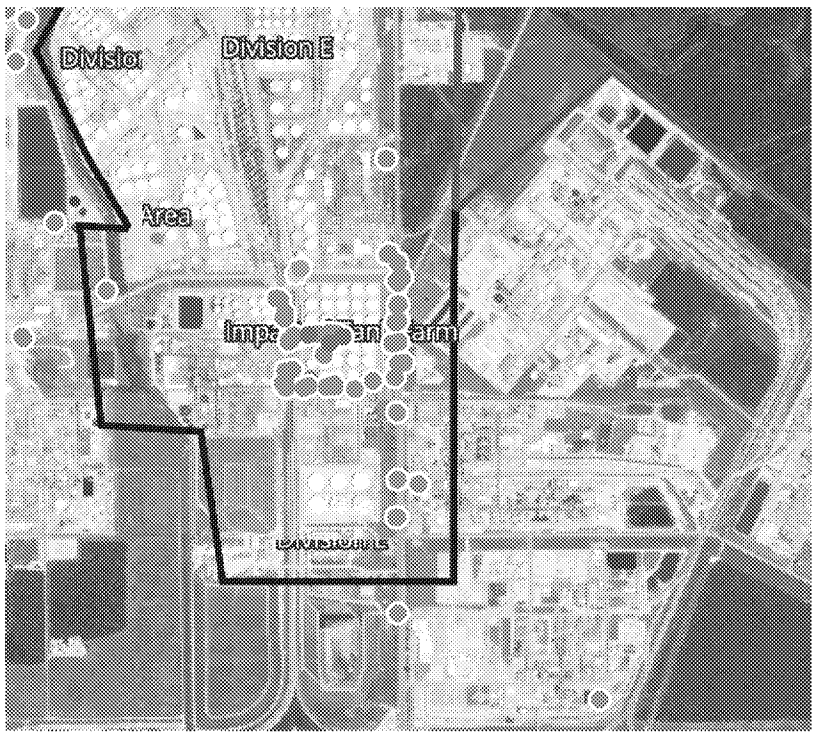
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 20:32:52	Division E	29.7531960,-95.0928900	https://www.google.com/maps/search/?api=1&query=29.7531960,-95.0928900	1.530 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 9:00:00 PM to 4/16/2019 10:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 21:30:37	1.700 ppm
	4/16/2019 21:01:44	0.775 ppm
Impacted Tank Farm	4/16/2019 21:01:17	0.060 ppm
	4/16/2019 21:10:12	0.030 ppm
	4/16/2019 21:07:02	0.040 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 9:00:00 PM to 4/16/2019 10:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 21:30:37	Division E	29.7534260,-95.0928480	https://www.google.com/maps/search/?api=1&query=29.7534260,-95.0928480	1.760 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/17/2019 11:13:35 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190417_0500_benzene_report.pdf; 20190417_0600_benzene_report.pdf

All,

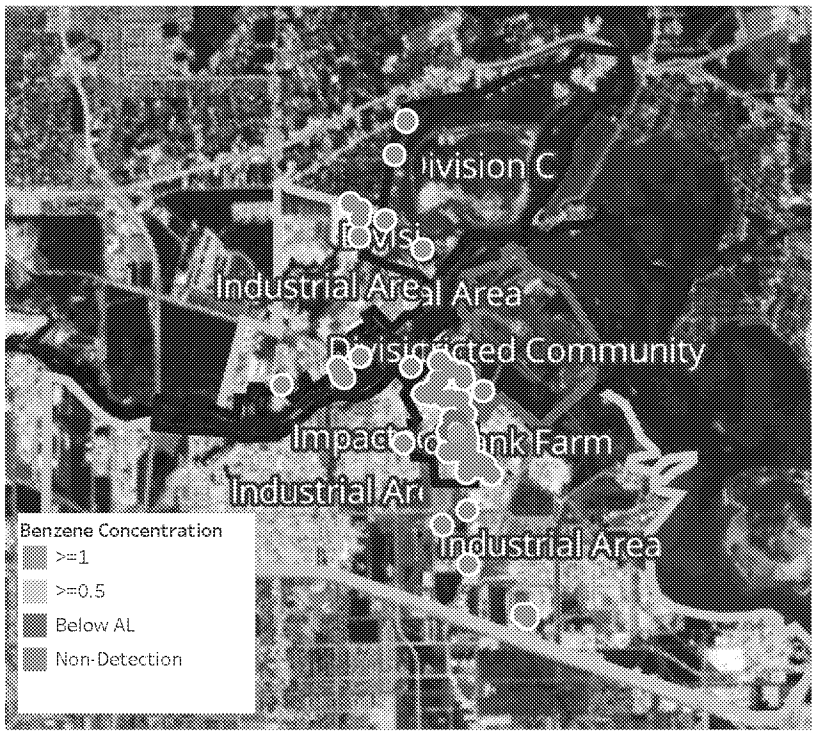
Attached are the benzene reports from 0400 – 0600.

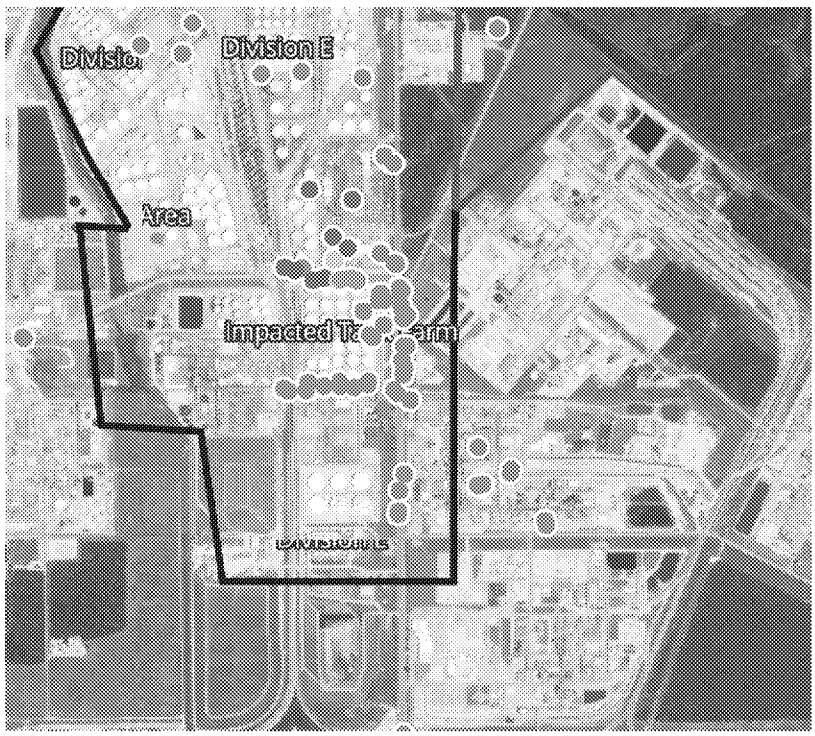
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 4:00:00 AM to 4/17/2019 5:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 04:04:03	0.250 ppm
	4/17/2019 04:25:27	1.520 ppm
	4/17/2019 04:20:02	1.980 ppm
	4/17/2019 04:36:16	0.760 ppm
	4/17/2019 04:28:08	0.300 ppm
	4/17/2019 04:31:12	1.650 ppm
	4/17/2019 04:39:58	0.480 ppm
	4/17/2019 04:44:21	0.130 ppm
	4/17/2019 04:49:48	0.070 ppm
	4/17/2019 04:43:26	0.910 ppm
	4/17/2019 04:40:12	0.110 ppm
	4/17/2019 04:35:17	0.140 ppm
	4/17/2019 04:49:53	0.230 ppm
	4/17/2019 04:52:17	0.180 ppm

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Reading Date
4/17/2019 4:00:00 AM to 4/17/2019 5:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

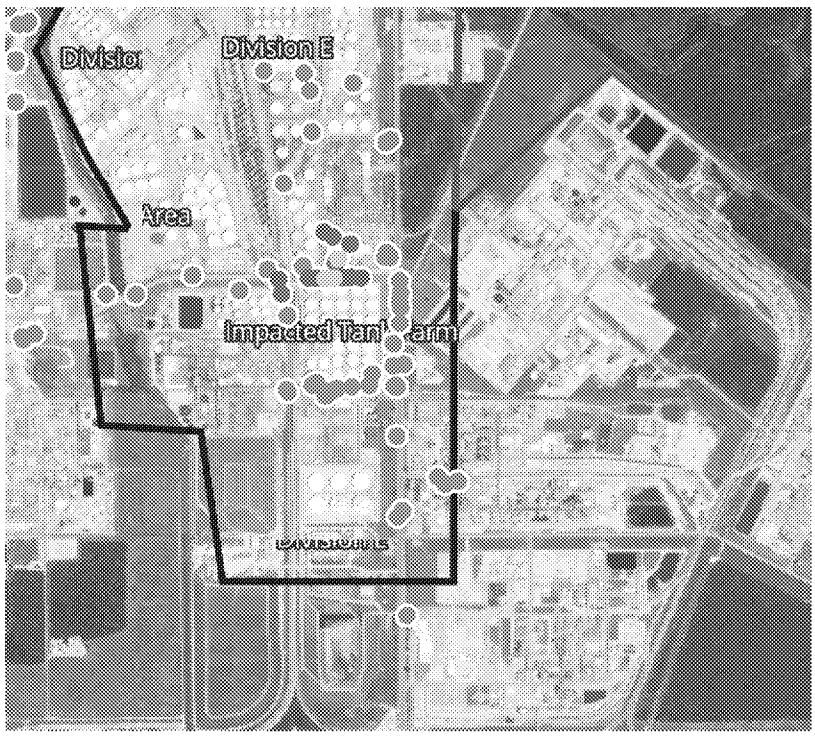
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 04:31:12	Division E	29.7321340,-95.0916270	https://www.google.com/maps/search/?api=1&query=29.7321340,-95.0916270	1.9500 ppm
4/17/2019 04:25:27	Division E	29.7331670,-95.0913830	https://www.google.com/maps/search/?api=1&query=29.7331670,-95.0913830	1.5200 ppm
4/17/2019 04:20:02	Division E	29.7351250,-95.0911740	https://www.google.com/maps/search/?api=1&query=29.7351250,-95.0911740	1.9300 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 5:00:00 AM to 4/17/2019 6:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 05:17:41	0.4500 ppm
	4/17/2019 05:13:03	0.6800 ppm
	4/17/2019 05:09:56	0.1700 ppm
	4/17/2019 05:13:50	0.2800 ppm
	4/17/2019 05:22:54	0.6400 ppm
	4/17/2019 05:16:20	0.4900 ppm
	4/17/2019 05:19:58	0.4300 ppm
	4/17/2019 05:25:37	0.6500 ppm
	4/17/2019 05:29:42	0.1700 ppm
	4/17/2019 05:33:02	0.1000 ppm
	4/17/2019 05:39:04	0.0100 ppm
	4/17/2019 05:36:56	0.0500 ppm
	4/17/2019 05:42:34	0.3500 ppm
	4/17/2019 05:40:12	0.0600 ppm

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Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/17/2019 9:20:31 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190417_0300_benzene_report.pdf; 20190417_0400_benzene_report.pdf

All,

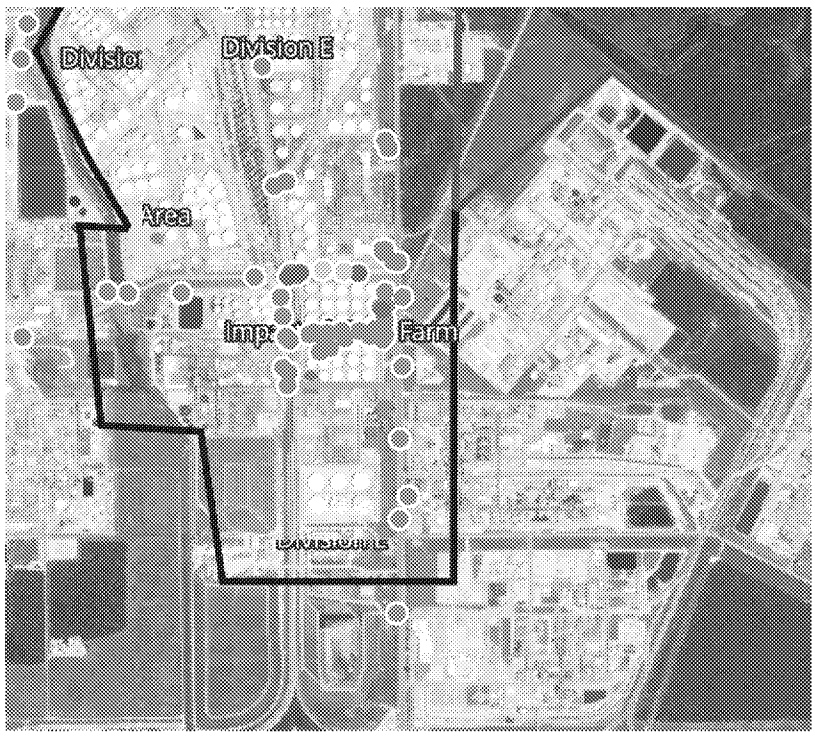
Attached are the benzene reports from 0200 – 0400.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 2:00:00 AM to 4/17/2019 3:00:00 AM



Recent Benzene Detections

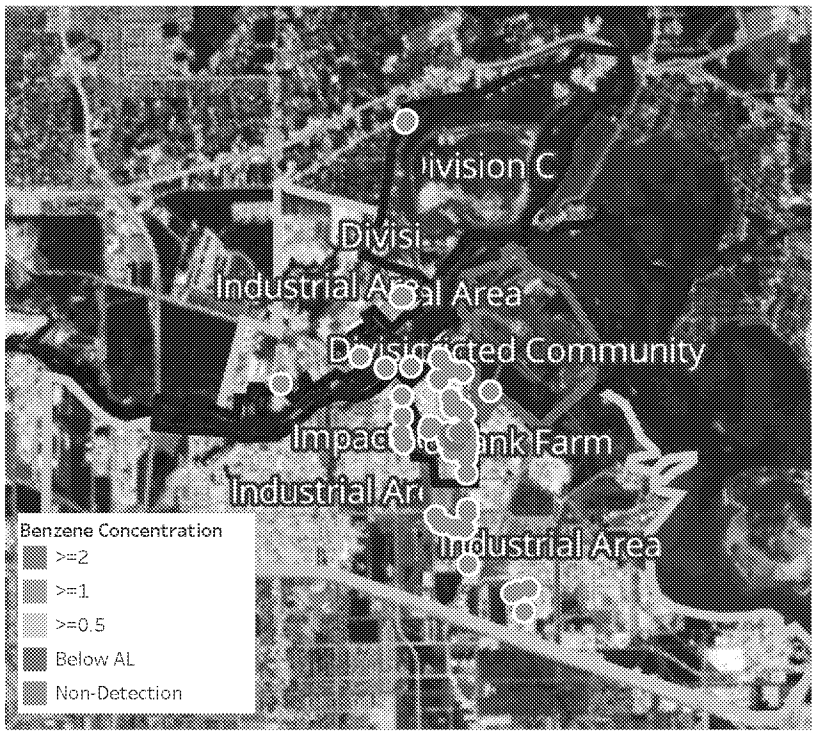
Location Category	Reading Date	Concentration
Division E	4/17/2019 02:08:16	0.7500 ppm
	4/17/2019 02:04:21	0.6000 ppm
	4/17/2019 02:10:41	0.2400 ppm
	4/17/2019 02:00:40	0.2000 ppm
	4/17/2019 02:17:19	0.2200 ppm
Impacted Tank Farm	4/17/2019 02:36:09	0.0600 ppm

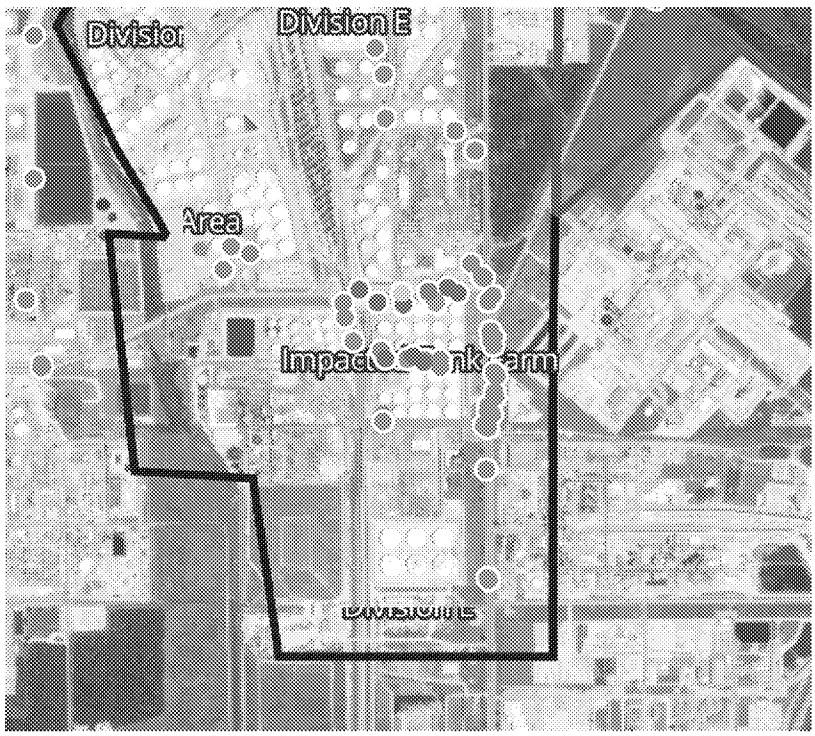
This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/17/2019 3:00:00 AM to 4/17/2019 4:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/17/2019 03:11:11	0.050 ppm
	4/17/2019 03:15:30	0.190 ppm
	4/17/2019 03:18:30	0.360 ppm
	4/17/2019 03:28:20	1.080 ppm
	4/17/2019 03:22:12	1.940 ppm
	4/17/2019 03:53:40	2.200 ppm
	4/17/2019 03:47:18	2.910 ppm
	4/17/2019 03:52:50	0.670 ppm
	4/17/2019 03:40:07	0.150 ppm
	4/17/2019 03:58:15	0.060 ppm
Impacted Tank Farm	4/17/2019 03:47:15	0.040 ppm
	4/17/2019 03:55:05	0.040 ppm
	4/17/2019 03:51:42	0.060 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/17/2019 3:00:00 AM to 4/17/2019 4:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/17/2019 03:53:40	Division E			2.000 ppm
4/17/2019 03:47:18	Division E	29.7332600,-95.0913930	https://www.google.com/maps/search/?api=1&query=29.7332600,-95.0913930	2.910 ppm
4/17/2019 03:28:20	Division E	29.7350820,-95.0912350	https://www.google.com/maps/search/?api=1&query=29.7350820,-95.0912350	1.080 ppm
4/17/2019 03:22:12	Division E	29.7350080,-95.0912000	https://www.google.com/maps/search/?api=1&query=29.7350080,-95.0912000	1.940 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/17/2019 1:18:50 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2000 Benzene Update
Attachments: 20190416_1900_benzene_report.pdf; 20190416_2000_benzene_report.pdf

All,

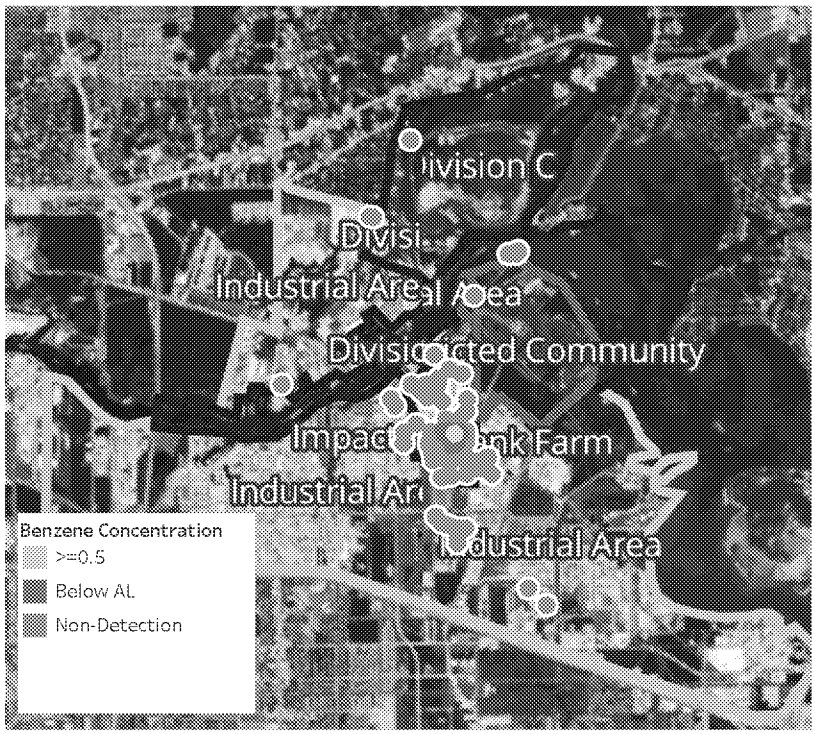
Attached are the benzene reports from 1800 – 2000.

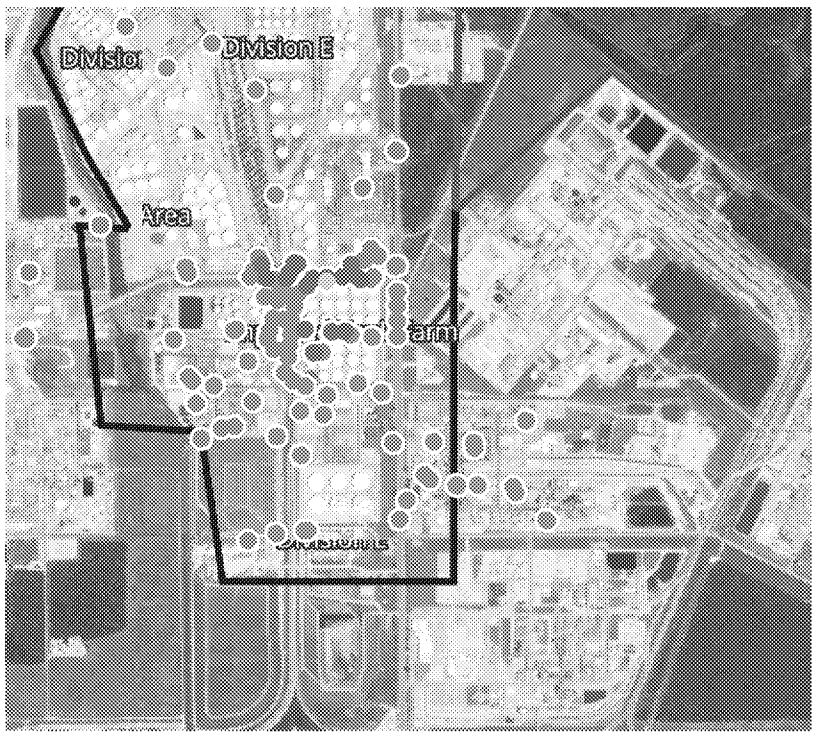
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 6:00:00 PM to 4/16/2019 7:00:00 PM





Recent Benzene Detections

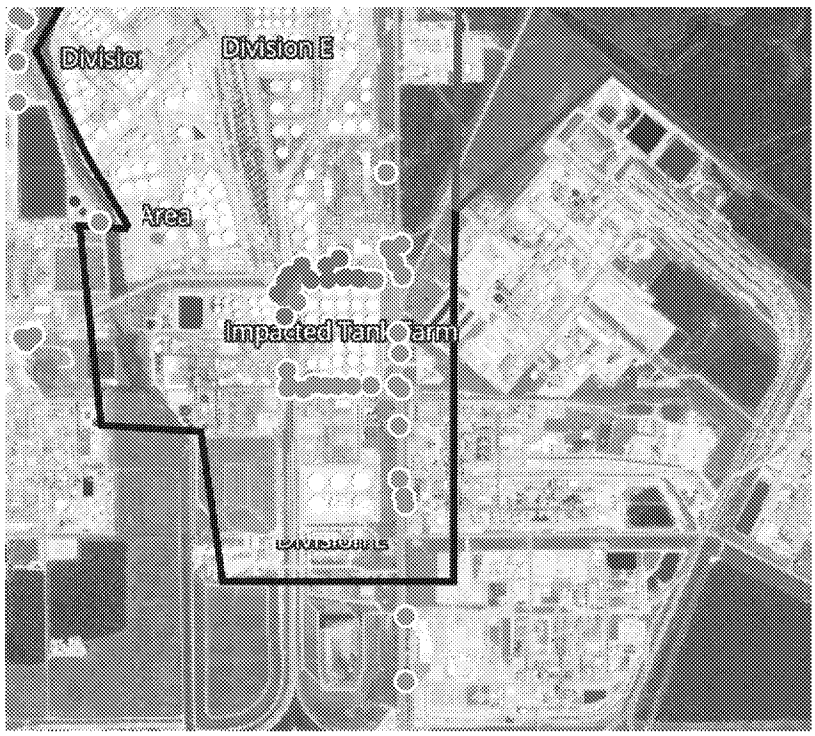
Location Category	Reading Date	Concentration
Division E	4/16/2019 18:01:34	0.0250 ppm
	4/16/2019 18:20:57	0.2600 ppm
	4/16/2019 18:24:26	0.4100 ppm
	4/16/2019 18:25:10	0.2750 ppm
	4/16/2019 18:18:38	0.0300 ppm
	4/16/2019 18:29:28	0.3000 ppm
	4/16/2019 18:32:14	0.4200 ppm
	4/16/2019 18:33:12	0.1000 ppm
	4/16/2019 18:22:50	0.5600 ppm
	4/16/2019 18:34:55	0.3400 ppm
	4/16/2019 18:31:38	0.0400 ppm
	4/16/2019 18:28:44	0.0800 ppm
	4/16/2019 18:17:25	0.0500 ppm
	4/16/2019 18:28:04	0.1900 ppm
	4/16/2019 18:57:43	0.2500 ppm
Impacted Tank Farm	4/16/2019 18:32:49	0.0500 ppm
	4/16/2019 18:36:10	0.0600 ppm
	4/16/2019 18:39:35	0.0300 ppm
	4/16/2019 18:45:31	0.0700 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 7:00:00 PM to 4/16/2019 8:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 19:19:37	0.2250 ppm
	4/16/2019 19:14:53	0.0900 ppm
	4/16/2019 19:30:47	0.0400 ppm
	4/16/2019 19:42:49	0.4700 ppm
	4/16/2019 19:35:04	0.1800 ppm
	4/16/2019 19:44:06	0.0600 ppm
	4/16/2019 19:49:34	0.0300 ppm
	4/16/2019 19:51:04	0.0100 ppm
	4/16/2019 19:48:11	0.0300 ppm
	4/16/2019 19:36:31	0.2100 ppm
	4/16/2019 19:47:42	0.1100 ppm
	4/16/2019 19:40:24	0.4300 ppm
	4/16/2019 19:55:03	0.2300 ppm

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Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/11/2019 11:22:17 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]; Craig.j.groman@uscg.mil [Craig.j.groman@uscg.mil]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Report
Attachments: 20190411_1700_benzene_report.pdf; 20190411_1800_benzene_report.pdf

All,

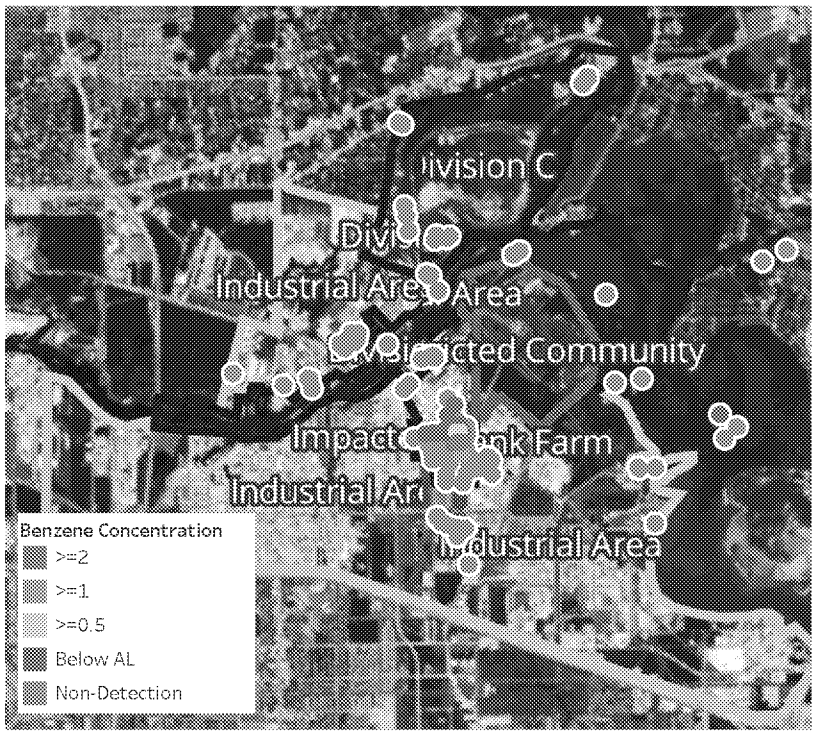
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

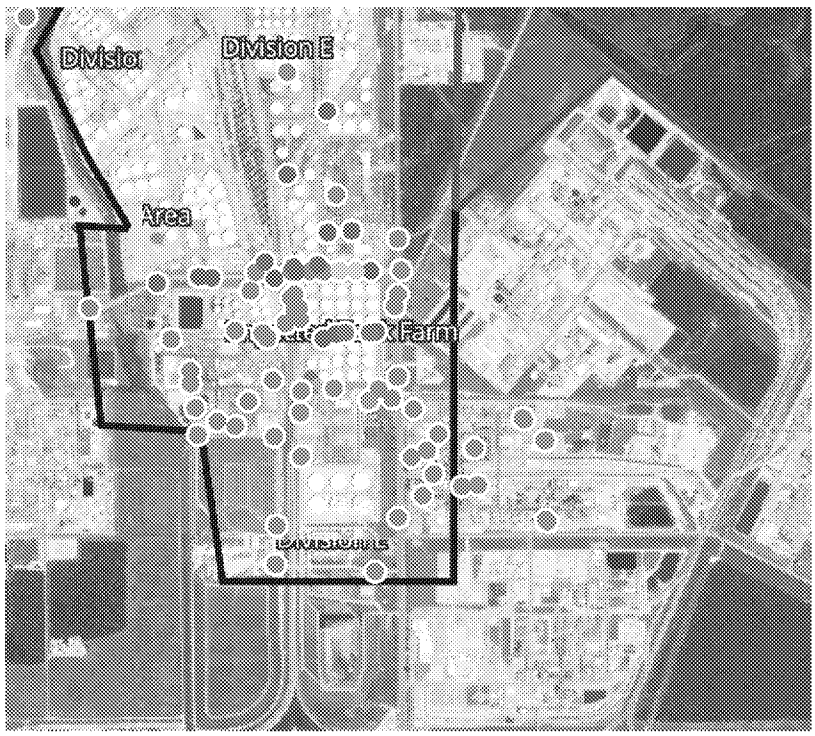
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 4:00:00 PM to 4/11/2019 5:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 16:00:53	0.030 ppm
	4/11/2019 16:08:04	0.060 ppm
	4/11/2019 16:23:12	0.225 ppm
	4/11/2019 16:32:45	0.090 ppm
	4/11/2019 16:20:43	0.050 ppm
	4/11/2019 16:26:00	0.030 ppm
	4/11/2019 16:22:16	0.030 ppm
	4/11/2019 16:28:11	0.050 ppm
	4/11/2019 16:41:23	0.070 ppm
	4/11/2019 16:18:43	0.040 ppm
	4/11/2019 16:54:33	0.130 ppm
Impacted Tank Farm	4/11/2019 16:05:40	0.260 ppm
	4/11/2019 16:14:01	0.970 ppm
	4/11/2019 16:18:30	0.610 ppm
	4/11/2019 16:21:21	0.470 ppm
	4/11/2019 16:23:18	0.050 ppm
	4/11/2019 16:38:09	2.130 ppm
	4/11/2019 16:42:03	0.050 ppm
	4/11/2019 16:43:52	1.000 ppm
	4/11/2019 16:50:39	3.520 ppm
	4/11/2019 16:59:28	0.070 ppm
Over Water (No Division)	4/11/2019 16:33:28	0.100 ppm

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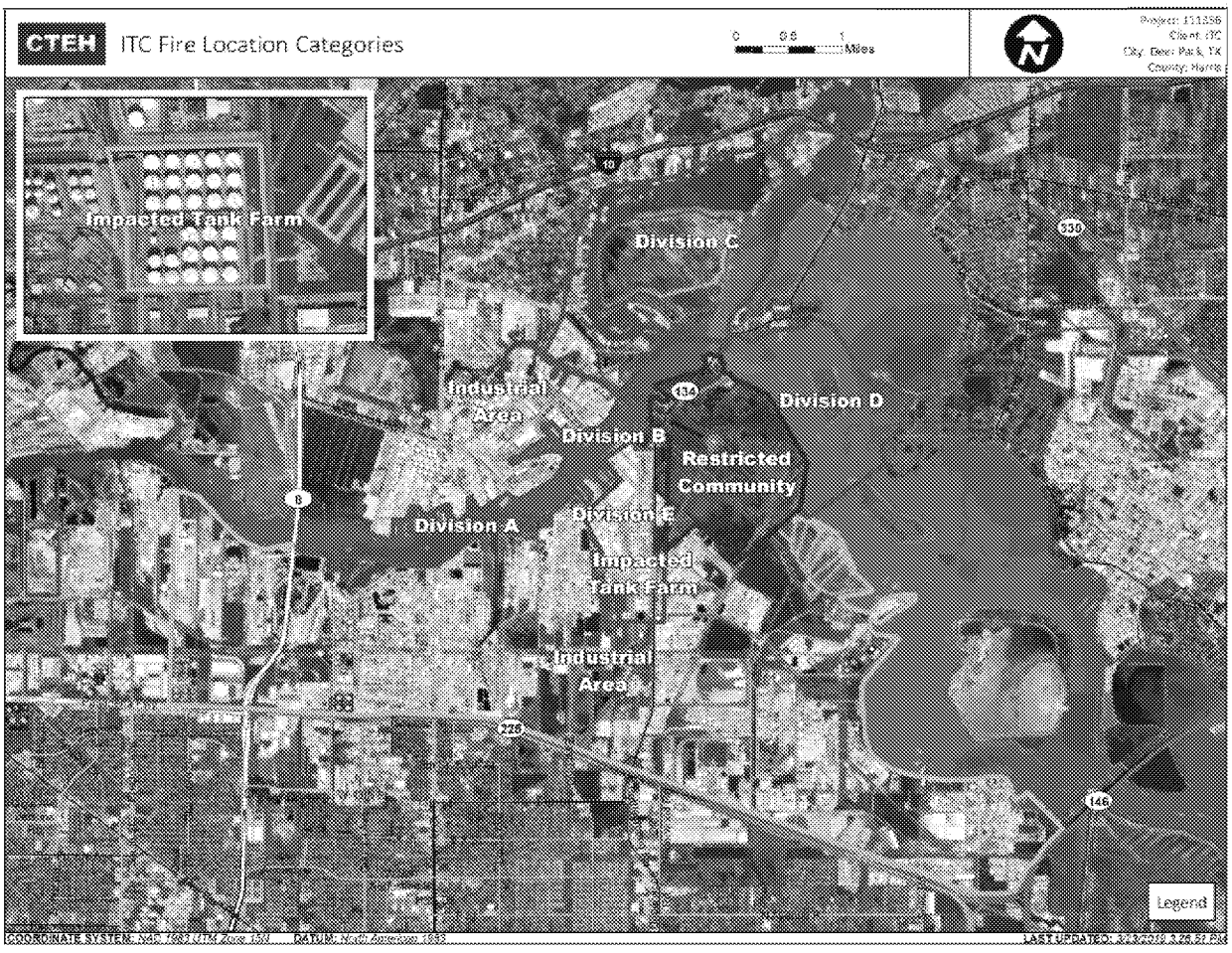
Reading Date
4/11/2019 4:00:00 PM to 4/11/2019 5:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

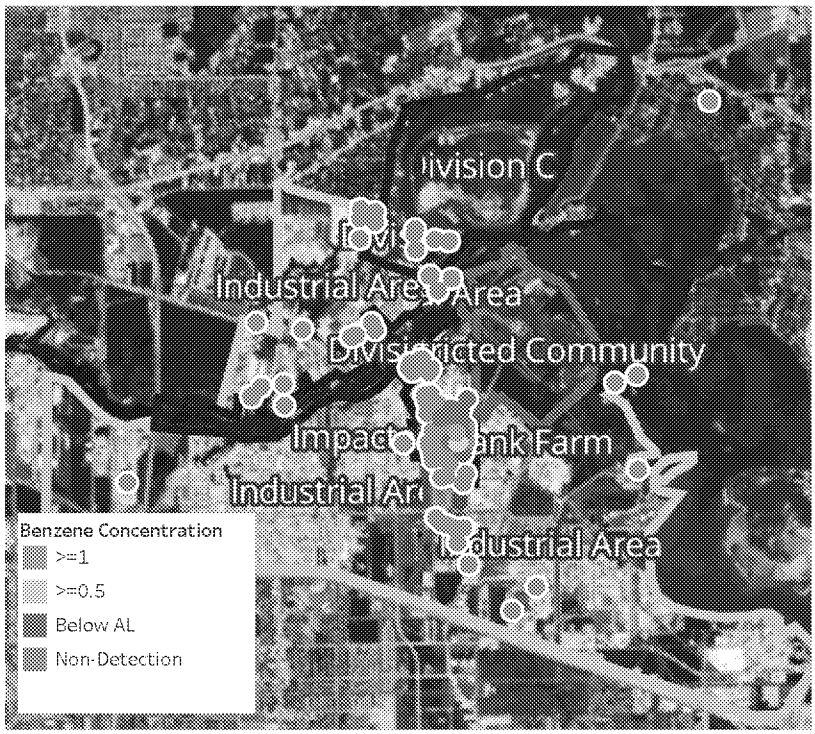
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 16:50:39	Impacted Tank Farm	29.7517290,-95.0907450	https://www.google.com/maps/search/?api=1&query=29.7517290,-95.0907450	3.620 ppm
4/11/2019 16:43:52	Impacted Tank Farm	29.7299320,-95.0907620	https://www.google.com/maps/search/?api=1&query=29.7299320,-95.0907620	1.000 ppm
4/11/2019 16:38:09	Impacted Tank Farm	29.7317310,-95.0914870	https://www.google.com/maps/search/?api=1&query=29.7317310,-95.0914870	2.130 ppm

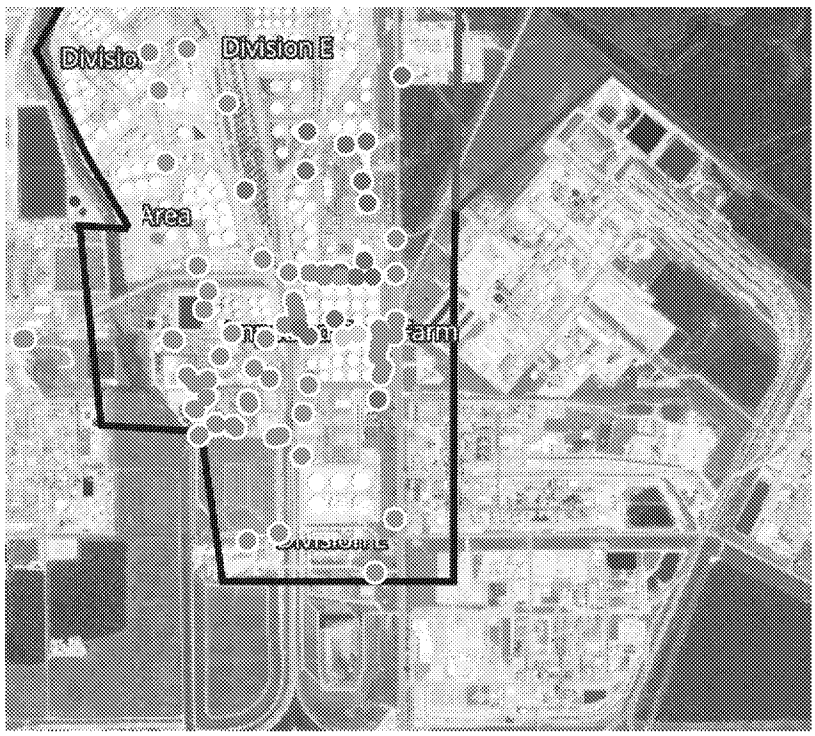


Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 5:00:00 PM to 4/11/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/11/2019 17:02:28	0.150 ppm
	4/11/2019 17:02:52	0.125 ppm
	4/11/2019 17:22:24	0.225 ppm
	4/11/2019 17:22:24	0.020 ppm
	4/11/2019 17:31:48	0.220 ppm
	4/11/2019 17:34:22	0.175 ppm
	4/11/2019 17:35:58	0.120 ppm
	4/11/2019 17:45:11	0.100 ppm
	4/11/2019 17:48:20	0.080 ppm
	4/11/2019 17:56:43	0.200 ppm
Impacted Tank Farm	4/11/2019 17:07:17	1.470 ppm
	4/11/2019 17:12:25	0.340 ppm
	4/11/2019 17:20:21	0.250 ppm
	4/11/2019 17:16:18	0.060 ppm
	4/11/2019 17:27:59	0.050 ppm
	4/11/2019 17:34:35	0.070 ppm
	4/11/2019 17:41:37	0.070 ppm
	4/11/2019 17:44:01	0.140 ppm
	4/11/2019 17:48:31	0.030 ppm

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Reading Date
4/11/2019 5:00:00 PM to 4/11/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 17:07:17	Impacted Tank Farm	29.732010,-95.0916440	https://www.google.com/maps/search/?api=1&query=29.732010,-95.0916440	1.470 ppm

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Message

From: Jeremy Gueringer [jgueringer@cteh.com]
Sent: 4/11/2019 9:17:02 PM
To: spill12@tceq.texas.gov [spill12@tceq.texas.gov]; craig.hill@pcs.hctx.net [craig.hill@pcs.hctx.net]; johnathan.martin@pcs.hctx.net [johnathan.martin@pcs.hctx.net]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com [b.latham@WestonSolutions.com]; houstonscc@uscg.mil [houstonscc@uscg.mil]; jarod.s.toczko@uscg.mil [jarod.s.toczko@uscg.mil]; uscgimdhouston@gmail.com [uscgimdhouston@gmail.com]; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov [Brandy.Brooks@tceq.texas.gov]; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com [justin.sawyer.uscg@gmail.com]; sarah.k.rousseau@uscg.mil [sarah.k.rousseau@uscg.mil]; mtsru.itc.hou@gmail.com [mtsru.itc.hou@gmail.com]; cgitcresponse@gmail.com [cgitcresponse@gmail.com]; alex.shunda.uscg@gmail.com [alex.shunda.uscg@gmail.com]; jroberts@poha.com [jroberts@poha.com]; wbuck@poha.com [wbuck@poha.com]; ikebowl300@gmail.com [ikebowl300@gmail.com]; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com [scowan@css-inc.com]; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov [jeffrey.davis@glo.texas.gov]; Craig.j.groman@uscg.mil [Craig.j.groman@uscg.mil]
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com [mtaylor@iterm.com]; mgaudet@iterm.com [mgaudet@iterm.com]; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; Jason Callahan [jcallahan@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Report
Attachments: 20190411_1500_benzene_report.pdf; 20190411_1600_benzene_report.pdf

All,

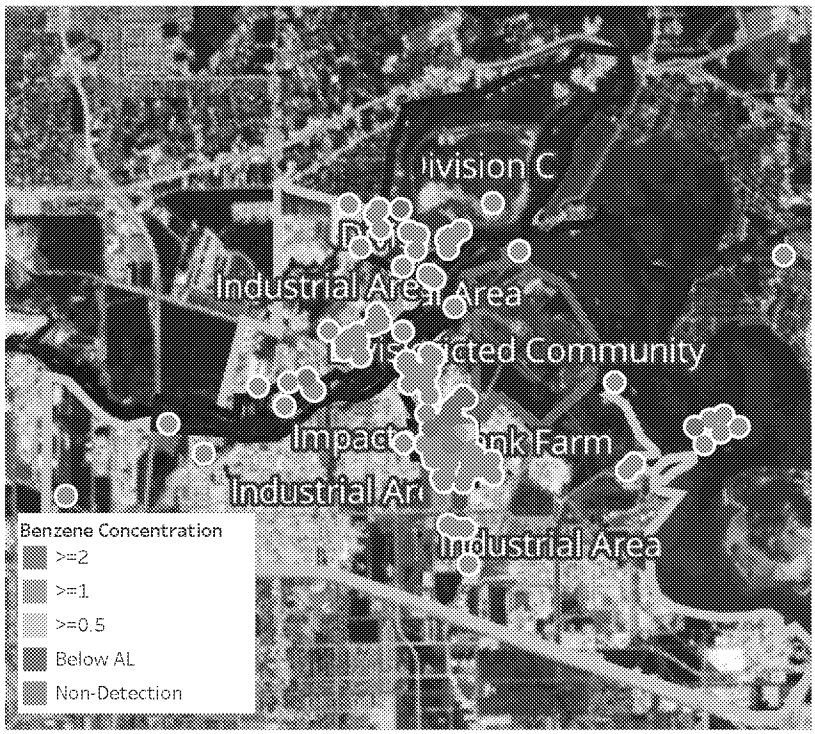
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

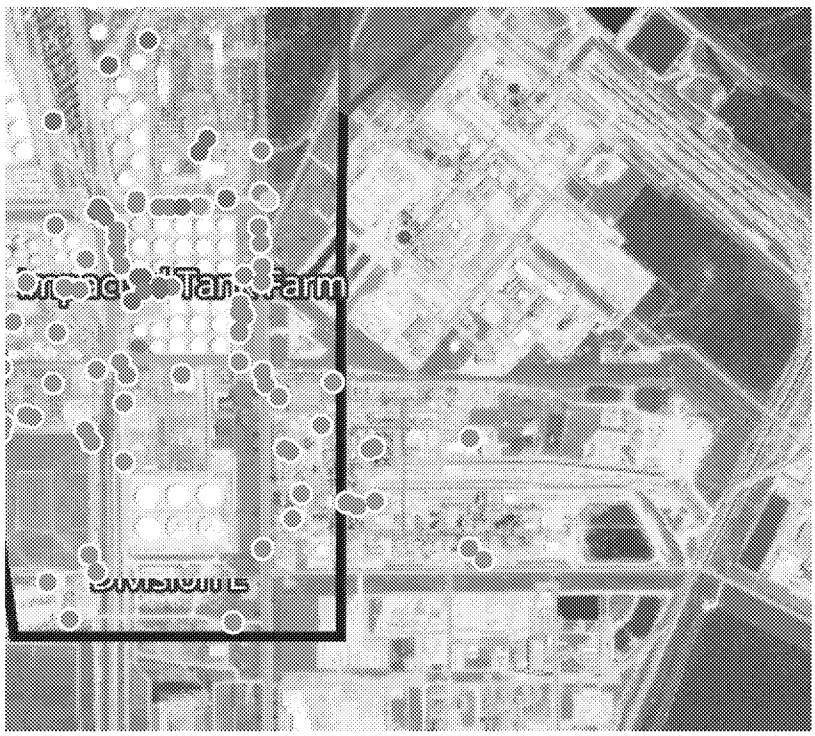
Sincerely,

Jeremy Gueringer
Project Manager, Toxicology Emergency Response Program
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-271-8179
Emergency Response 24-Hour Hotline:+1(866) 869-2834
jgueringer@cteh.com | www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 2:00:00 PM to 4/11/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division A	4/11/2019 14:03:31	0.350 ppm
Division C	4/11/2019 14:36:56	0.030 ppm
Division E	4/11/2019 14:00:50	0.150 ppm
	4/11/2019 14:02:19	3.180 ppm
	4/11/2019 14:03:48	0.120 ppm
	4/11/2019 14:15:22	0.220 ppm
	4/11/2019 14:20:05	0.070 ppm
	4/11/2019 14:25:56	0.060 ppm
	4/11/2019 14:32:28	0.050 ppm
	4/11/2019 14:34:45	0.040 ppm
	4/11/2019 14:42:06	0.020 ppm
	4/11/2019 14:45:05	5.230 ppm
	4/11/2019 14:49:32	0.180 ppm
	4/11/2019 14:53:17	0.240 ppm
	4/11/2019 14:51:36	0.040 ppm
	4/11/2019 14:54:54	4.380 ppm
	4/11/2019 14:56:16	0.030 ppm
Impacted Tank Farm	4/11/2019 14:06:54	1.190 ppm
	4/11/2019 14:11:39	0.070 ppm
	4/11/2019 14:23:29	0.040 ppm
	4/11/2019 14:30:29	0.050 ppm
	4/11/2019 14:40:04	0.480 ppm
	4/11/2019 14:44:21	0.300 ppm
	4/11/2019 14:43:55	0.270 ppm
	4/11/2019 14:48:05	0.350 ppm
	4/11/2019 14:50:45	0.110 ppm
	4/11/2019 14:59:47	0.570 ppm
Over Water (No Divisi..	4/11/2019 14:30:46	0.100 ppm
Site Assessment	4/11/2019 14:36:39	3.170 ppm

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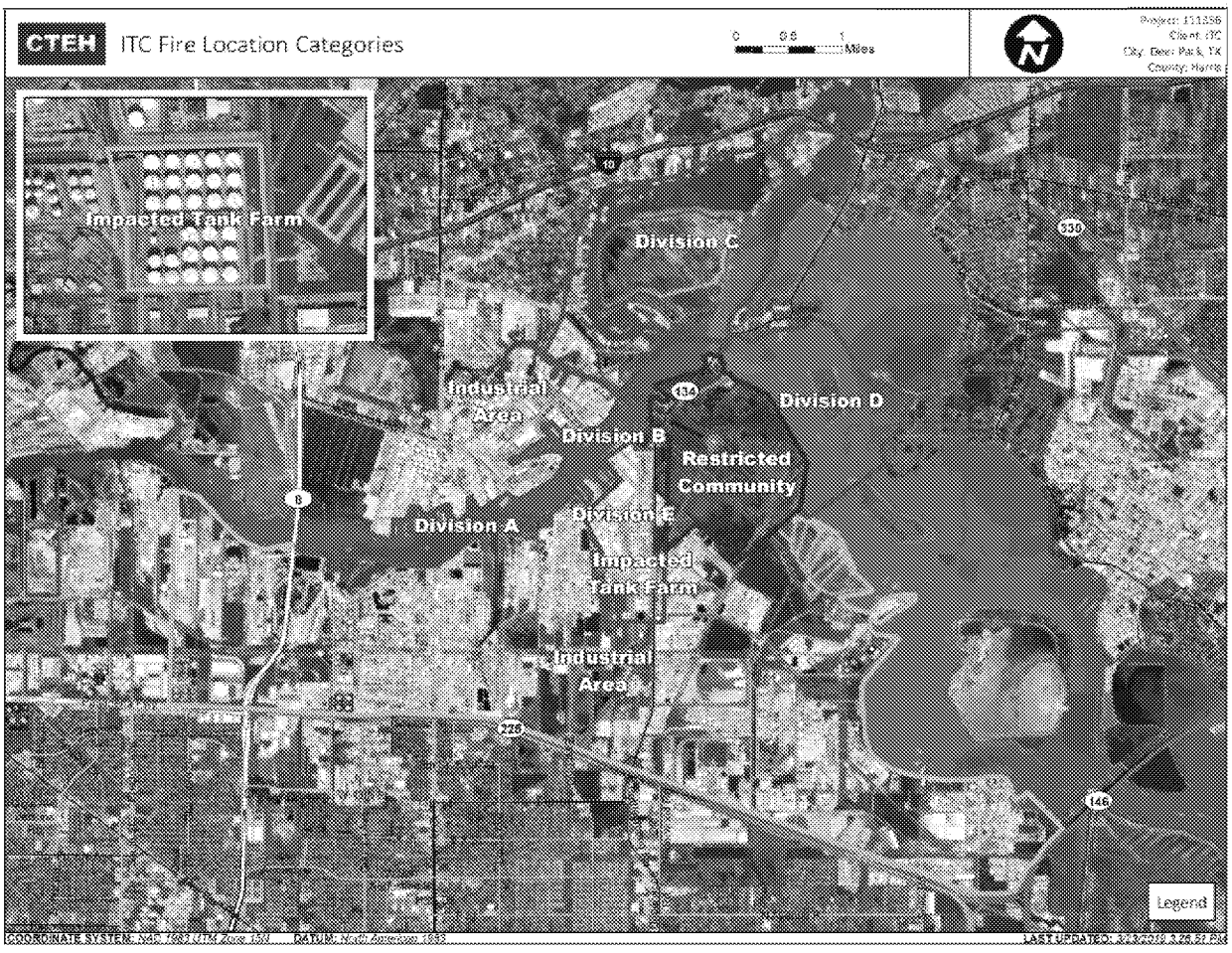
Reading Date
4/11/2019 2:00:00 PM to 4/11/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

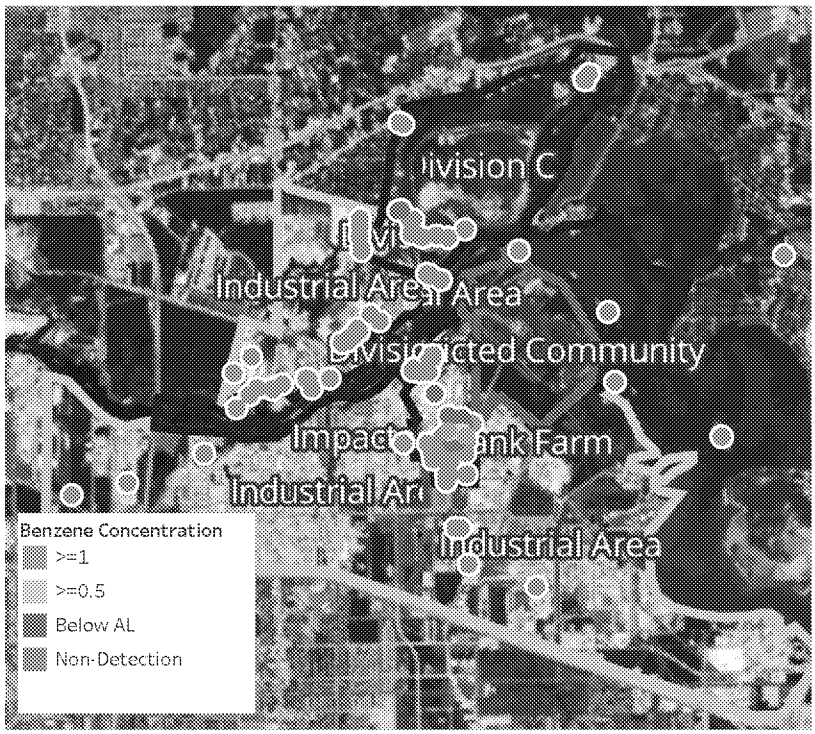
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 14:54:54	Division E	29.7330100,-95.0932520	https://www.google.com/maps/search/?api=1&query=29.7330100,-95.0932520	4.390 ppm
4/11/2019 14:45:05	Division E	29.7331970,-95.0934030	https://www.google.com/maps/search/?api=1&query=29.7331970,-95.0934030	5.230 ppm
4/11/2019 14:36:39	Site Assessment	29.7316500,-95.0924270	https://www.google.com/maps/search/?api=1&query=29.7316500,-95.0924270	3.170 ppm
4/11/2019 14:06:54	Impacted Tank Farm	29.7332190,-95.0912320	https://www.google.com/maps/search/?api=1&query=29.7332190,-95.0912320	1.190 ppm
4/11/2019 14:02:19	Division E	29.7331620,-95.0933420	https://www.google.com/maps/search/?api=1&query=29.7331620,-95.0933420	3.180 ppm

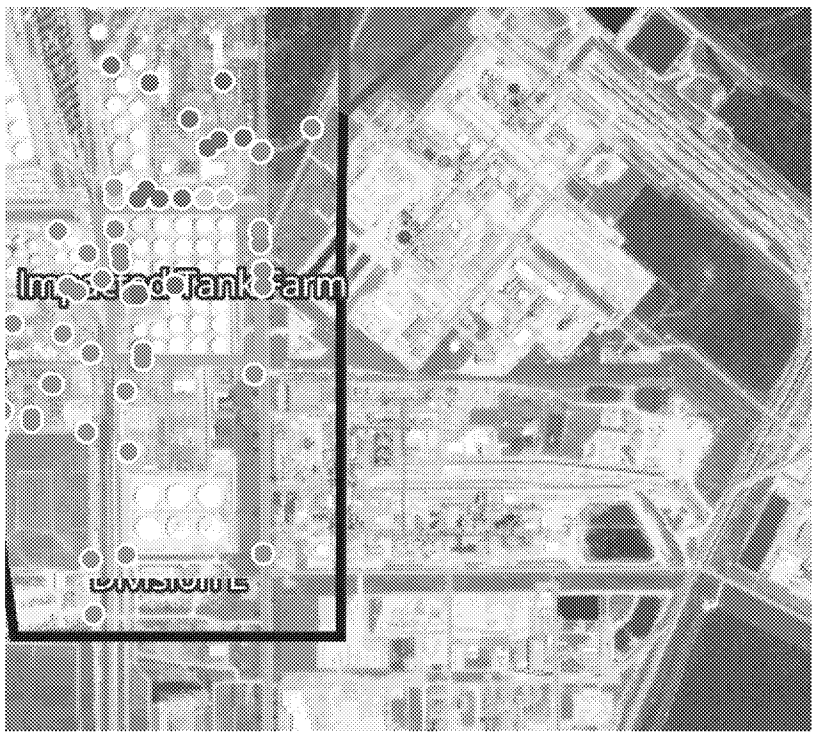


Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/11/2019 3:00:00 PM to 4/11/2019 4:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/11/2019 15:01:10	0.250 ppm
	4/11/2019 15:39:16	0.320 ppm
Division E	4/11/2019 15:05:34	0.020 ppm
	4/11/2019 15:06:48	1.540 ppm
	4/11/2019 15:14:44	0.430 ppm
	4/11/2019 15:22:50	0.175 ppm
	4/11/2019 15:26:45	0.030 ppm
	4/11/2019 15:33:29	0.090 ppm
	4/11/2019 15:33:42	0.050 ppm
	4/11/2019 15:51:01	0.250 ppm
	4/11/2019 15:54:31	0.130 ppm
	4/11/2019 15:58:39	0.100 ppm
	4/11/2019 15:52:52	1.720 ppm
Impacted Tank Farm	4/11/2019 15:15:05	0.500 ppm
	4/11/2019 15:20:23	0.070 ppm
	4/11/2019 15:17:51	0.100 ppm
	4/11/2019 15:19:24	0.150 ppm
	4/11/2019 15:23:06	0.420 ppm
	4/11/2019 15:26:26	0.540 ppm
	4/11/2019 15:30:57	0.750 ppm
	4/11/2019 15:51:10	0.100 ppm
	4/11/2019 15:56:40	0.030 ppm

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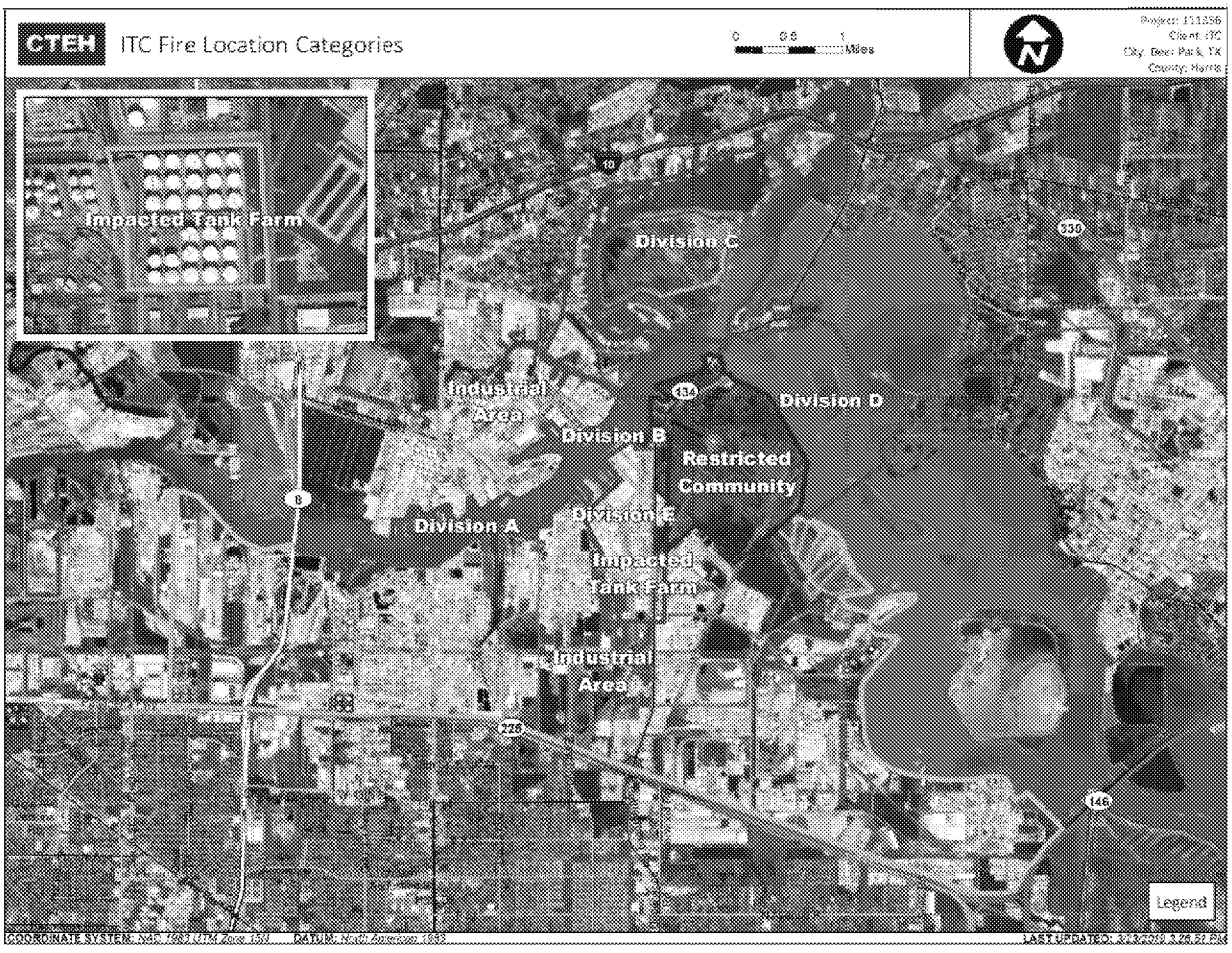
Reading Date
4/11/2019 3:00:00 PM to 4/11/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/11/2019 15:52:52	Division E	29.7527740,-95.0899170	https://www.google.com/maps/search/?api=1&query=29.7527740,-95.0899170	1.7200 ppm
4/11/2019 15:06:48	Division E	29.7385620,-95.0930600	https://www.google.com/maps/search/?api=1&query=29.7385620,-95.0930600	1.5400 ppm



Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Scott Malm [smalm@cteh.com]
Sent: 4/8/2019 4:04:48 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: Link for ITC Response Site

https://itcresponse.com/air-monitoring/

Scott Malm, Ph.D.
Toxicologist
CTEH, LLC
Office: 501-801-8614 | Mobile: 501-800-6729
Emergency Response 24-Hour Hotline: +1(866) 869-2834
smalm@cteh.com |www.cteh.com

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/16/2019 11:05:46 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Report
Attachments: 20190416_1700_Benzene_Report.pdf; 20190416_1800_Benzene_Report.pdf

All,

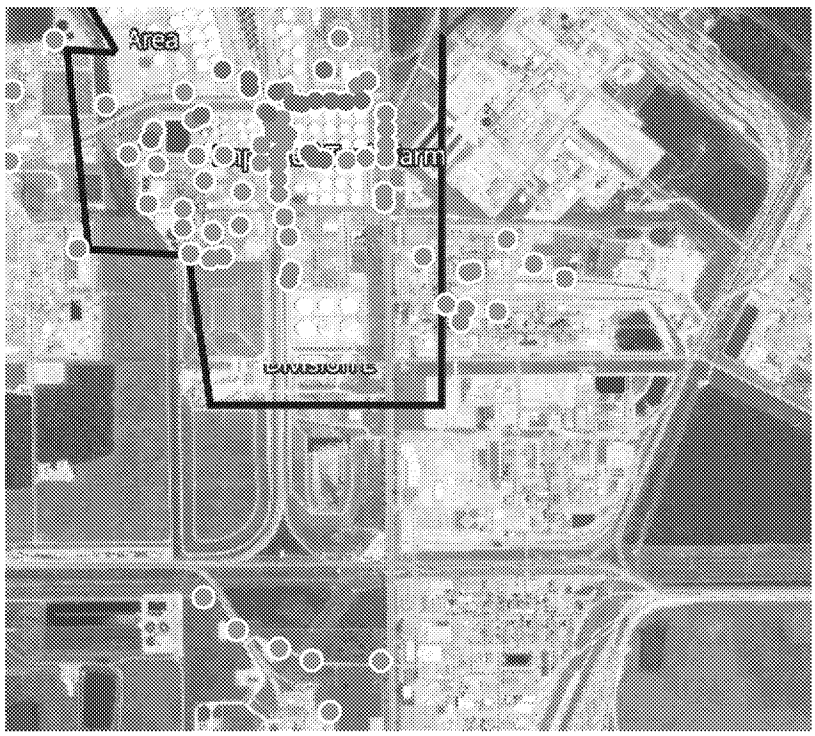
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 4:00:00 PM to 4/16/2019 5:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 16:05:57	0.1700 ppm
	4/16/2019 16:08:30	0.1100 ppm
	4/16/2019 16:07:09	0.0400 ppm
	4/16/2019 16:10:28	0.0200 ppm
	4/16/2019 16:15:30	0.0800 ppm
	4/16/2019 16:19:20	0.0300 ppm
	4/16/2019 16:08:21	0.0100 ppm
	4/16/2019 16:14:38	0.0500 ppm
	4/16/2019 16:39:30	0.0200 ppm
	4/16/2019 16:44:59	0.1700 ppm
	4/16/2019 16:17:07	0.0200 ppm
	4/16/2019 16:48:24	0.2900 ppm
	4/16/2019 16:51:39	0.2000 ppm
	4/16/2019 16:18:28	0.0200 ppm
	4/16/2019 16:54:38	0.0600 ppm
Impacted Tank Farm	4/16/2019 16:13:43	0.0300 ppm
	4/16/2019 16:20:27	0.1000 ppm
	4/16/2019 16:44:12	0.0300 ppm

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Reading Date
4/16/2019 4:00:00 PM to 4/16/2019 5:00:00 PM

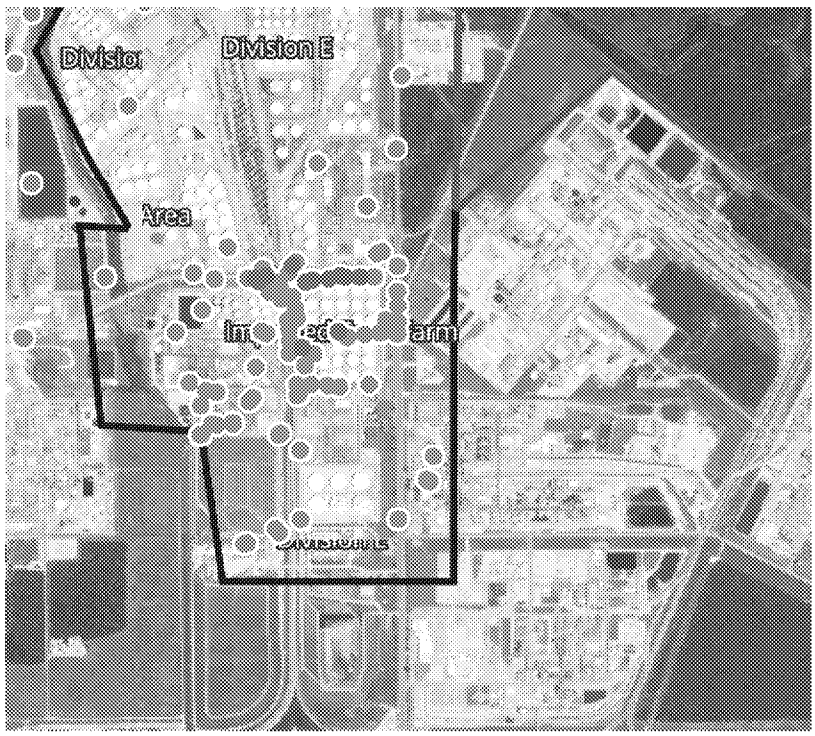
Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 5:00:00 PM to 4/16/2019 6:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Below Grate	4/16/2019 17:00:18	0.1000 ppm
Division E	4/16/2019 17:24:50	0.2500 ppm
	4/16/2019 17:36:31	0.0800 ppm
	4/16/2019 17:12:56	0.2600 ppm
	4/16/2019 17:41:02	0.0800 ppm
	4/16/2019 17:44:02	0.4100 ppm
	4/16/2019 17:46:47	0.4800 ppm
	4/16/2019 17:50:43	0.0300 ppm
	4/16/2019 17:13:17	0.1600 ppm
	4/16/2019 17:03:01	0.0500 ppm
	4/16/2019 17:01:23	0.0400 ppm
Impacted Tank Farm	4/16/2019 17:24:08	0.0600 ppm
	4/16/2019 17:43:39	0.0200 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 5:00:00 PM to 4/16/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Scott Malm [smalm@cteh.com]
Sent: 4/7/2019 7:59:12 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: RE: Electronic Copy of CTEH Analytical Air Sampling Adjustment Plan
Attachments: Analytical Stations Map.pdf

Hi Anish,

Please see the attached file for the analytical stations map from our discussion earlier today.

Thanks very much,

Scott Malm, Ph.D.
Toxicologist
CTEH, LLC
Office: 501-801-8614 | Mobile: 501-800-6729
Emergency Response 24-Hour Hotline: +1(866) 869-2834
smalm@cteh.com |www.cteh.com

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/16/2019 9:03:20 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Report
Attachments: 20190416_1500_Benzene_Report.pdf; 20190416_1600_Benzene_Report.pdf

All,

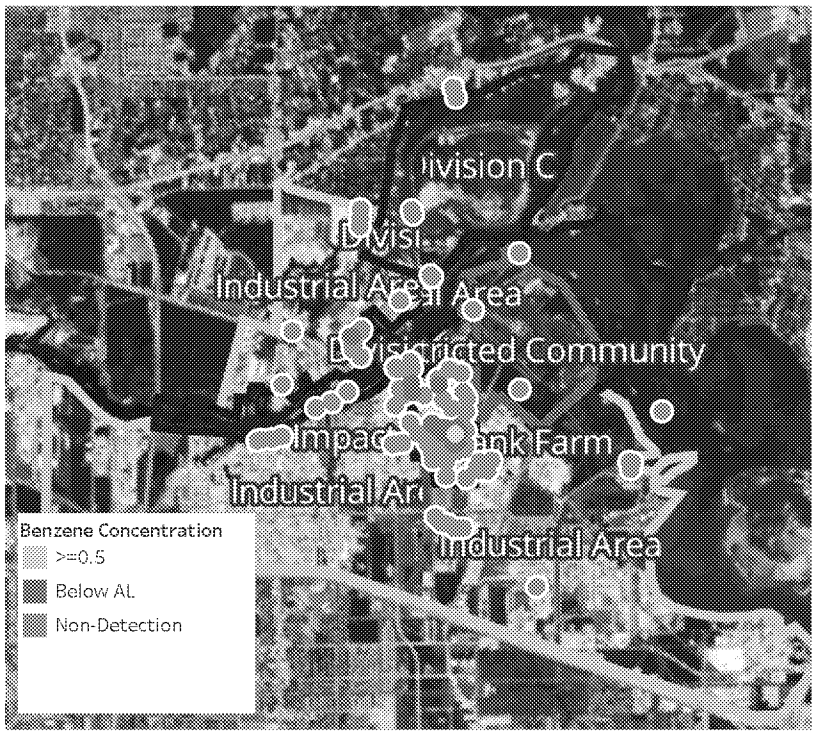
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

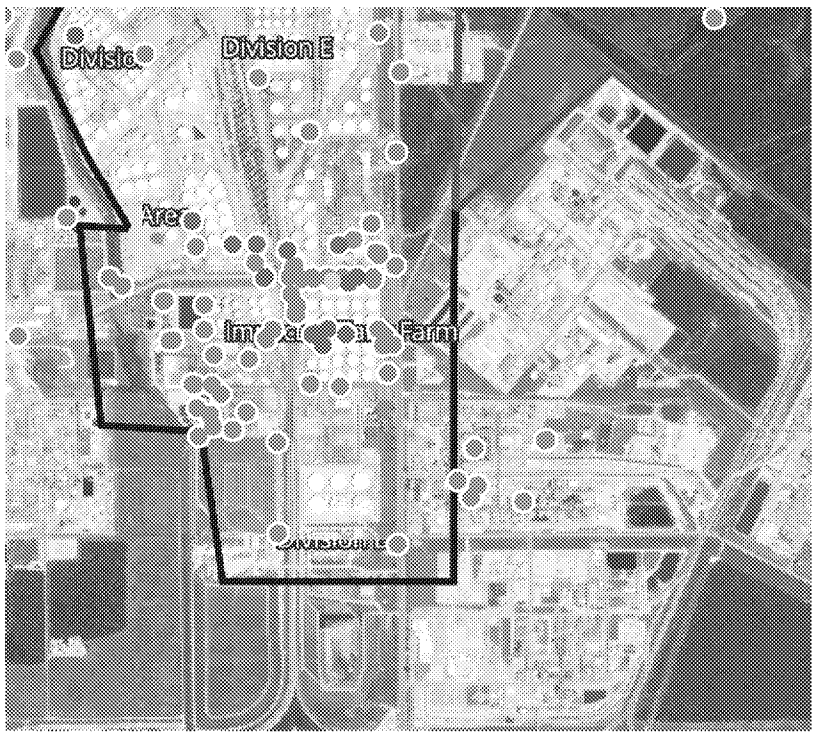
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 2:00:00 PM to 4/16/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Above Grate	4/16/2019 14:59:00	0.1000 ppm
Below Grate	4/16/2019 14:55:25	0.0250 ppm
Division B	4/16/2019 14:49:49	0.0200 ppm
Division E	4/16/2019 14:11:24	0.1400 ppm
	4/16/2019 14:34:12	0.0600 ppm
	4/16/2019 14:13:59	0.0600 ppm
	4/16/2019 14:17:38	0.0300 ppm
	4/16/2019 14:33:06	0.1800 ppm
	4/16/2019 14:22:17	0.0200 ppm
	4/16/2019 14:23:09	0.0500 ppm
	4/16/2019 14:15:19	0.5400 ppm
	4/16/2019 14:56:40	0.1900 ppm
	4/16/2019 14:50:59	0.2400 ppm
	4/16/2019 14:58:02	0.0200 ppm
	4/16/2019 14:52:34	0.2800 ppm
Impacted Tank Farm	4/16/2019 14:17:37	0.0500 ppm
	4/16/2019 14:32:12	0.0300 ppm
	4/16/2019 14:38:19	0.0400 ppm
	4/16/2019 14:53:47	0.0400 ppm

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Reading Date
4/16/2019 2:00:00 PM to 4/16/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)

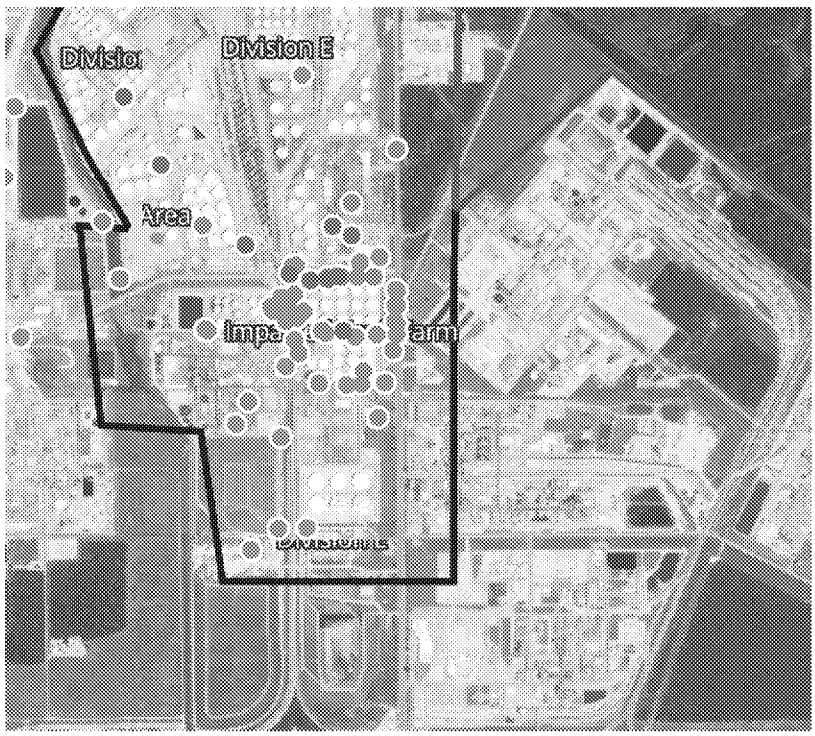
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 3:00:00 PM to 4/16/2019 4:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Below Grate	4/16/2019 15:38:33	0.0750 ppm
	4/16/2019 15:42:58	0.1000 ppm
Division E	4/16/2019 15:05:51	0.0200 ppm
	4/16/2019 15:13:41	0.0700 ppm
	4/16/2019 15:33:03	0.1200 ppm
	4/16/2019 15:38:26	0.1100 ppm
	4/16/2019 15:39:09	0.1400 ppm
	4/16/2019 15:33:18	0.4000 ppm
	4/16/2019 15:18:20	0.3600 ppm
	4/16/2019 15:43:05	0.0700 ppm
	4/16/2019 15:44:25	0.2200 ppm
	4/16/2019 15:47:45	0.4200 ppm
Impacted Tank Farm	4/16/2019 15:34:17	0.0700 ppm

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Reading Date
4/16/2019 3:00:00 PM to 4/16/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

ICS 233 - Open Action Tracker

Version Name: Overall

Incident Name: 2nd 80's Fire

Period: Period 15 [04/14/19 07:00 - 04/18/19 07:00]

No.	Description	For/POC	Briefed	Start Date	Status	Notes	Target Date	Comp Date
13	Develop plan to handle water and product long term (barge, tank, etc.)	Operations Section	☐	03/20/2019 19:17	Standby	IC to meet with Operations at 00:15 on 3/21 Plan to pump containment area to 100-28 with potential to go to other tanks and potential 80-18, all resources en route. In progress of acquiring an ocean going barge for transport to disposal.		
20	Send out Customer Communication update	Liaison Officer	☐	03/20/2019 19:17	Ongoing	Pending legal review		
23	Develop and implement an effective hot zone plan	Safety Officer	☐	03/21/2019 07:05	Ongoing			
26	Develop Waste Management Plan	Environmental Unit Leader	☐	03/21/2019 14:29	Awaiting Feedback	With TCEQ for Approval.		
27	Develop Water Sampling Plan	Environmental Unit Leader	☐	03/21/2019 14:29	In Progress	Adressing TCEQ Comments		
30	Move foam totes out of hot zone when able	Operations Section	☐	03/21/2019 15:40	In Progress			
35	Trajectory analysis	Situation Unit Leader	☐		Ongoing			
41	Clear 2 lanes of traffic on Independence Parkway (for limited and industry usage)	Operations Section	☐	03/27/2019 08:38	Ongoing			
44	Follow up with Vopak on air monitoring readings	CTEH/Safety	☐	03/27/2019 15:26	Ongoing			
48	Surface Water Sampling Results	Planning Section	☐	03/28/2019 10:27	Ongoing	Awaiting sampling analysis results, delay from PFAS accreditation in labs. (5 day turn around)		
54	Equipment Decontamination Plan	Environmental Unit Leader	☐	03/29/2019 00:00	Awaiting Feedback	Awaiting TCEQ Approval		
56	Approval for, and startup of, ITC wastewater plant	TCEQ	☐	04/01/2019 13:16	In Progress	With TCEQ		
59	Fire Plan	ITC	☐	04/02/2019 15:33	In Progress	Tuckers Bayou		
60	Section 7 Consult	EPA	☐	04/05/2019 00:00	In Progress	DOI and DOC Contacted		

ED_002627_00018950-00001

67	Develop a safe work plan for water-based flushing, decon, safe entry into confinng spaces within impacted zone - pier/docks/combing.	SOFR/OPS	☐	04/08/2019 15:20	Ongoing		04/14/2019 00:00	
68	Develop transition plan	Workgroup	☐	04/09/2019 08:12	Standby	Pends Endpoints and Metrics	04/13/2019 00:00	
69	Define endpoints and metrics for incident operations	Workgroup	☐	04/09/2019 08:12	In Progress		04/13/2019 00:00	
70	Implement On Water Operations Traffic Plan - Safety message	Safety Officer	☐	04/13/2019 13:56	In Progress	Brief on water operations teams; create Traffic Plan for Decon areas		
72	Develop large vessel decon plan	ENVL	☐	04/14/2019 00:00	Awaiting Feedback			

04/14/2019 19:00	Tank Farm Operations - Tank Volume Update Tank 100-28 has a current volume of 50,834bbls with a flow of 125/hr, Tank 80-33 has a current volume of 77,736bbls with a flow of 381/hr.
04/14/2019 20:00	Air Monitoring Detection Report: Benzene Div E - 4 readings ranging from 0.02ppm-0.27ppm Impacted Tank Farm - 1 readingat 0.05ppm
04/14/2019 21:00	Air Monitoring Detection Report: Benzene Div E - 9 readings ranging from 0.10ppm-.51ppm Impacted Tank Farm - 26 readings ranging from 0.03ppm-3.08ppm Industrial Area - 12 readings ranging from 0.02ppm-0.12ppm
04/14/2019 21:00	Tank Farm Operations - Tank Volume Update Tank 100-28 has a current volume of 50,034bbls Tank 80-33 has a current volume of 77,902bbls with a flow of 83/hr.
04/14/2019 22:00	Air Monitoring Detection Report: Benzene Div C - 1 reading at 0.05ppm Div E - 36 readings ranging from 0.05ppm-1.92ppm Industrial Area - 2 readings ranging from 0.08ppm-0.18ppm
04/14/2019 23:00	Tank Farm Operations - Tank Volume Update Tank 100-28 has a current volume of 50,140bbls with a flow of 48/hr, Tank 80-33 has a current volume of 78,178bbls with a flow of 138/hr.
04/14/2019 23:00	Air Monitoring Detection Report: Benzene Div C - 3 readings ranging from 0.05ppm-0.15ppm Div E - 47 readings ranging from 0.025ppm-2.96ppm Impacted Tank Farm - 4 readings ranging from 0.03ppm-0.48ppm Industrial Area - 7 readings ranging from 0.03ppm-0.67ppm
04/14/2019 23:39	Tank 80-10 - Crew has started degasing. Barge 80-18 - Cleaning complete.
04/15/2019 00:00	Air Monitoring Detection Report: Benzene Div C - 1 reading at 0.05ppm Div E - 27 readings ranging from 0.03ppm-16.30ppm Impacted Tank Farm - 2 readings ranging from 0.20ppm-4.06ppm
04/15/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 32 readings ranging from 0.03ppm-6.70ppm Impacted Tank Farm - 5 readings ranging from 0.02ppm-3.62ppm Industrial Area - 1 reading of 0.02ppm Restricted Community - 2 readings of 0.09ppm-0.12ppm
04/15/2019 01:06	Texas Molecular is going home for the night.
04/15/2019 01:25	Vopak reported a Benzene reading of 2.0. Current wind SW at 4mph. CTEH is verifying readings and ITC operations will follow up with Vopak representative. -Vopak sheltered in place at 01:09. Their readings do match the readings from CTEH. Date/Time Category Location Instrument Analyte Concentration Comment -04/15/2019@01:03:34 Division E - dock #1 - ultraRAE - 0.225ppm - wind calm -04/15/2019@12:52:52 Division E - docks 4 & # - UltraRAE - 0.6ppm - wind calm -04/15/2019@12:56:47 Division E - dock #2 - UltraRAE - 0.2ppm - wind calm
04/15/2019 02:00	Air Monitoring Detection Report: Benzene Div C - 1 reading of 0.05ppm Div E - 32 readings ranging from 0.04ppm-6.70ppm

04/15/2019 03:00	Tank Farm Operations - Tank Volume Update Tank 100-28 has a current volume of 50,316bbls with a flow of 53/hr, Tank 80-33 has a current volume of 79,150bbls with a flow of 127/hr. 8 Tanks complete and 7 In-Progress
04/15/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 23 readings ranging from 0.05ppm-6.96ppm Impacted Tank Farm - 12 readings ranging from 0.03ppm-4.98ppm
04/15/2019 03:29	Vopak gave the all clear for the shelter in place.
04/15/2019 04:00	Air Monitoring Detection Report: Benzene Div B - 1 reading at 0.59ppm Div C - 3 readings 0.15ppm-0.25ppm Div E - 19 readings ranging from 0.02ppm-1.97ppm
04/15/2019 07:30	Operations helicopter aerial overflight. Minimal sheening to no sheening observed. The only location with any visible remaining recoverable product was located at Bostco.
04/15/2019 12:30	Operations helicopter aerial overflight. Operations crews are currently deploying sorbent boom along all impacted shoreline areas. Water washing (low pressure, high volume)or shoreline areas is being conducted in Carpenters Bayou and at Battleship Texas.
04/15/2019 14:28	UC made decision to extend the current operational period to 96 hours vice 72 hours.
04/15/2019 16:34	T&T Dive team working to free boom from tug and barge at On Water Decon location at Kirby fleet in Carpenters Bayou.
04/15/2019 17:48	FOB: Fire Water shut off at 17:42 to re-route hoses.
04/15/2019 18:45	FOB: Establish one lane using traffic cones at washout on Base Oil Road.
04/15/2019 19:00	FOB: ICP relayed Air Monitoring Points for CTEH Personnel Stations for night watch, as follows:Independence Road & Tidal Road; Tidal Road & the Ditch; Halfway down Safety Lane; By Gate 35 (Tank 100-35); On the corner of Tank 100-20; On the corner Tanks 100-63, 100-64 & 100-65; VOLPAK Parking Lot; Texas Molecular Parking Lot.
04/15/2019 20:10	FOB: Fire water reported re-established. Work can resume in the Tank Farm.
04/15/2019 20:41	Vopak notified ITC of Benzene readings of 54.0ppm and have sheltered in place. Current weather 10mph SE. -CTEH followed up with Vopak Tech and determined that instrument may have been mis-calibrated. The highest reading CTEH recorded was a 0.10ppm. -CTEH will contact Dwayne Campbell from Vopak and discuss taking additional readings on-site.

ED_002627_00018952-00001

Message

From: Spall, Amy [Amy.Spall@WestonSolutions.com]
Sent: 4/3/2019 5:54:02 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: 20190403_1100 Tank Volume Update
Attachments: 20190403_1100 Volume Status.xlsx; 20190323_TankFarmMap.pdf; 20190403.1100.Event Log.pdf

Amy Spall
Associate Scientist II
5599 San Felipe, Suite 700
Houston, Texas 77056

(713)-985-6648 Direct
573-539-9090 Cell
Amy.spall@westonsolutions.com
www.westonsolutions.com

From: Bryan Carlisle [mailto:bcarlisle@responsegroupinc.com]
Sent: Wednesday, April 03, 2019 12:42 PM
To: Spall, Amy <Amy.Spall@WestonSolutions.com>; Michael.Honeycutt@tceq.texas.gov; Brandy.Brooks@tceq.texas.gov; Richard.Chism@tceq.texas.gov; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia.gandee@tceq.texas.gov; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; Anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; spill12@tceq.texas.gov; Mason.steve@epa.gov; Loesel.matthew@epa.gov; Adams.adam@epa.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; spill12@tceq.texas.gov; Jenniffier.hawes@dps.texas.gov
Cc: Rene Lozada <RLozada@responsegroupinc.com>; Dustin White <dwhite@responsegroupinc.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; Margaret Zalabak <MZalabak@responsegroupinc.com>; cgitcresponse@gmail.com
Subject: 20190403_1100 Tank Volume Update

**** External Email ****
Good morning,

Please see attached for the current tank volume status and incident event log as of 11:00 on April 03, 2019. Please remember that the tank volume status are estimates based off of thermal imaging calculations.

Vac Trucks used :
10 – 130 bbl
14 – 70 bbl

Next update will be for 15:00 on April 03, 2019

Thank you and have a safe day!

B. K. Carlisle
The Response Group
13939 Telge Rd.
Cypress, T.X. 77429
Office: 281.880.5000 ext. 258

WARNING: External Email: This email originated outside of Weston Solutions. DO NOT CLICK on any links or attachments unless you recognize the sender and are expecting the email.
CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/16/2019 7:46:49 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1400 Benzene Report
Attachments: 20190416_1300_Benzene_Report.pdf; 20190416_1400_Benzene_Report.pdf

All,

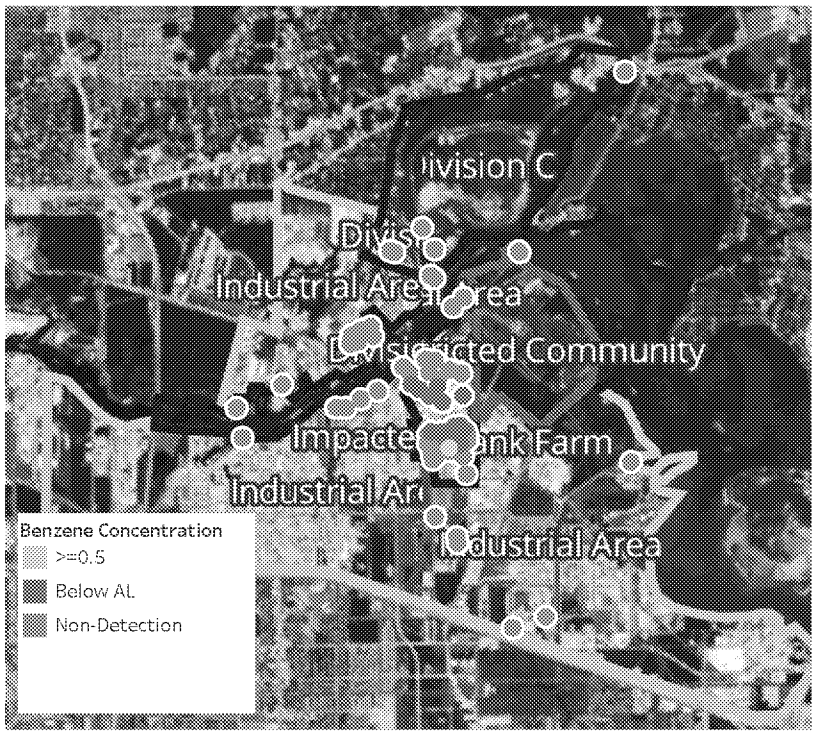
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

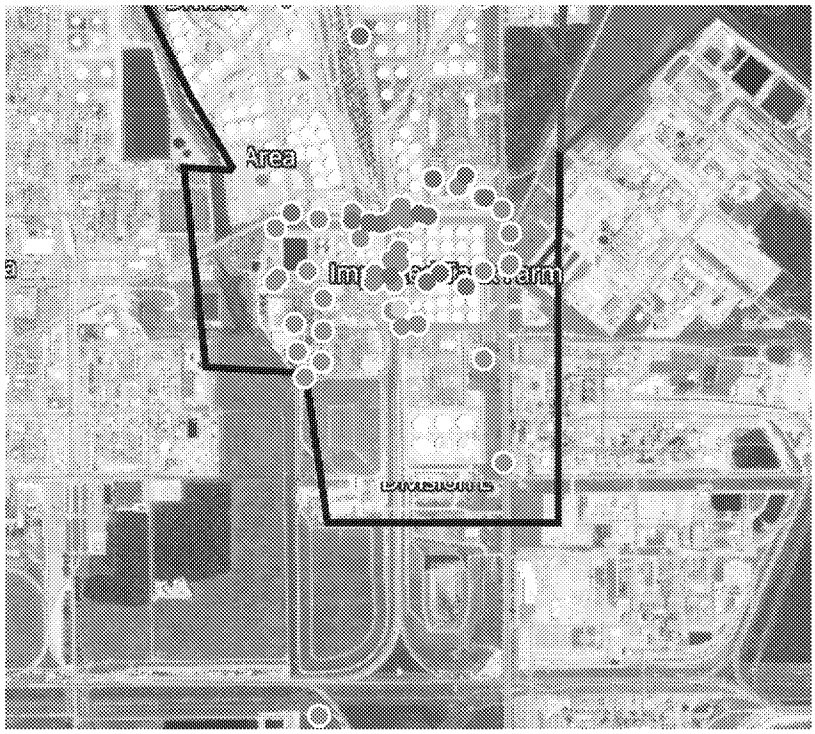
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 12:00:00 PM to 4/16/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/16/2019 12:25:57	0.0400 ppm
Division E	4/16/2019 12:02:16	0.0600 ppm
	4/16/2019 12:02:25	0.1500 ppm
	4/16/2019 12:00:54	0.2500 ppm
	4/16/2019 12:20:45	0.6000 ppm
	4/16/2019 12:27:55	0.0100 ppm
	4/16/2019 12:31:19	0.0300 ppm
	4/16/2019 12:35:24	0.0400 ppm
	4/16/2019 12:35:38	0.0700 ppm
	4/16/2019 12:32:55	0.0300 ppm
	4/16/2019 12:37:13	0.1700 ppm
	4/16/2019 12:39:06	0.0200 ppm
	4/16/2019 12:51:54	0.0700 ppm
	4/16/2019 12:39:43	0.1400 ppm
	4/16/2019 12:50:46	0.0400 ppm
	4/16/2019 12:45:17	0.0400 ppm
	4/16/2019 12:50:53	0.4500 ppm
	4/16/2019 12:59:56	0.1900 ppm
Impacted Tank Farm	4/16/2019 12:11:28	0.0400 ppm
	4/16/2019 12:48:29	0.0300 ppm
	4/16/2019 12:58:17	0.1100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 12:00:00 PM to 4/16/2019 1:00:00 PM

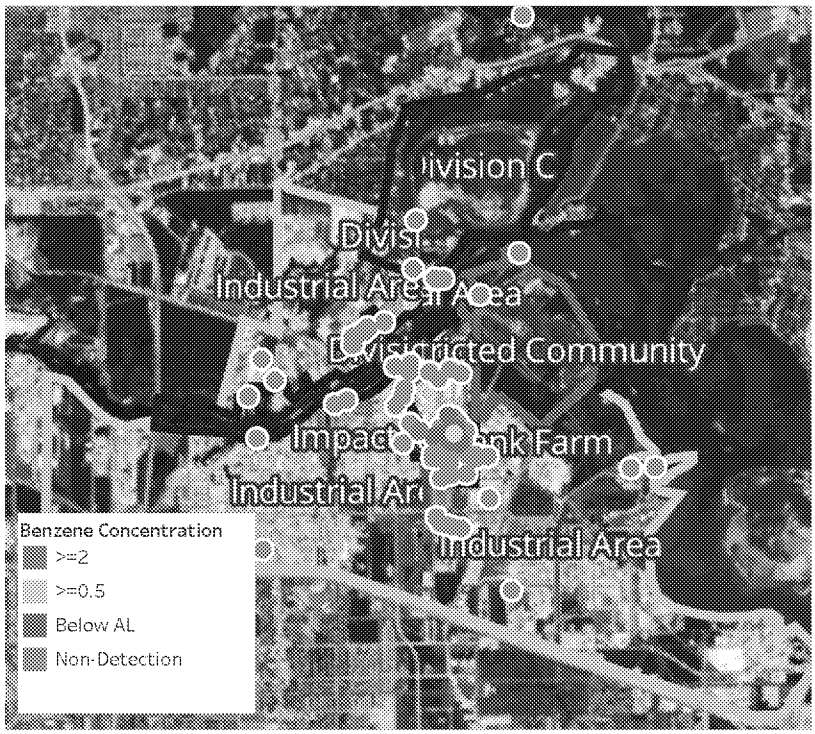
Benzene Action Level Concentration (ppm)

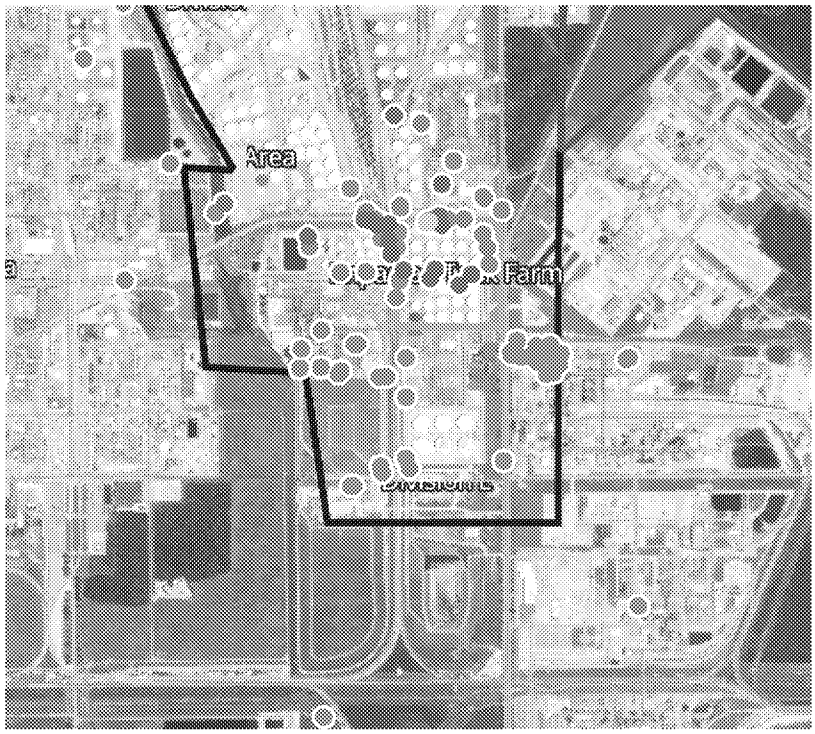
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 1:00:00 PM to 4/16/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 13:15:05	0.170 ppm
	4/16/2019 13:12:37	0.020 ppm
	4/16/2019 13:38:07	0.080 ppm
	4/16/2019 13:35:58	0.040 ppm
	4/16/2019 13:36:27	0.200 ppm
	4/16/2019 13:35:17	0.420 ppm
	4/16/2019 13:44:40	0.050 ppm
	4/16/2019 13:31:32	0.450 ppm
	4/16/2019 13:43:06	0.030 ppm
	4/16/2019 13:49:33	2.500 ppm
	4/16/2019 13:49:48	0.040 ppm
	4/16/2019 13:38:00	0.340 ppm
	4/16/2019 13:49:27	0.990 ppm
	4/16/2019 13:41:53	0.430 ppm
	4/16/2019 13:45:52	0.600 ppm
Impacted Tank Farm	4/16/2019 13:03:38	0.070 ppm
	4/16/2019 13:14:28	0.130 ppm
	4/16/2019 13:24:46	0.050 ppm
	4/16/2019 13:21:56	0.090 ppm
	4/16/2019 13:42:40	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 1:00:00 PM to 4/16/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 13:49:33	Division E	29.7536230,-95.0983710	https://www.google.com/maps/search/?api=1&query=29.7536230,-95.0983710	2.500 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/16/2019 11:19:37 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190416_0500_benzene_report.pdf; 20190416_0600_benzene_report.pdf

All,

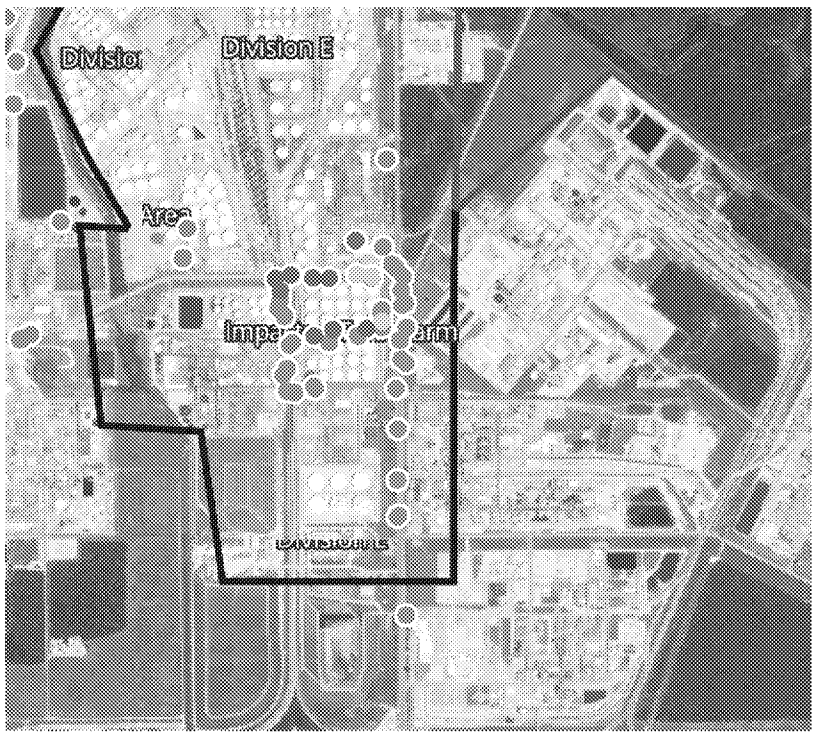
Attached are the benzene reports from 0400 – 0600. There was one notable benzene detection of 3.850 ppm in the Braskem facility. The reading was taken directly downwind of a ventilation pipe and is not related to the ITC incident. The site manager for Braskem has been notified of this detection.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 4:00:00 AM to 4/16/2019 5:00:00 AM



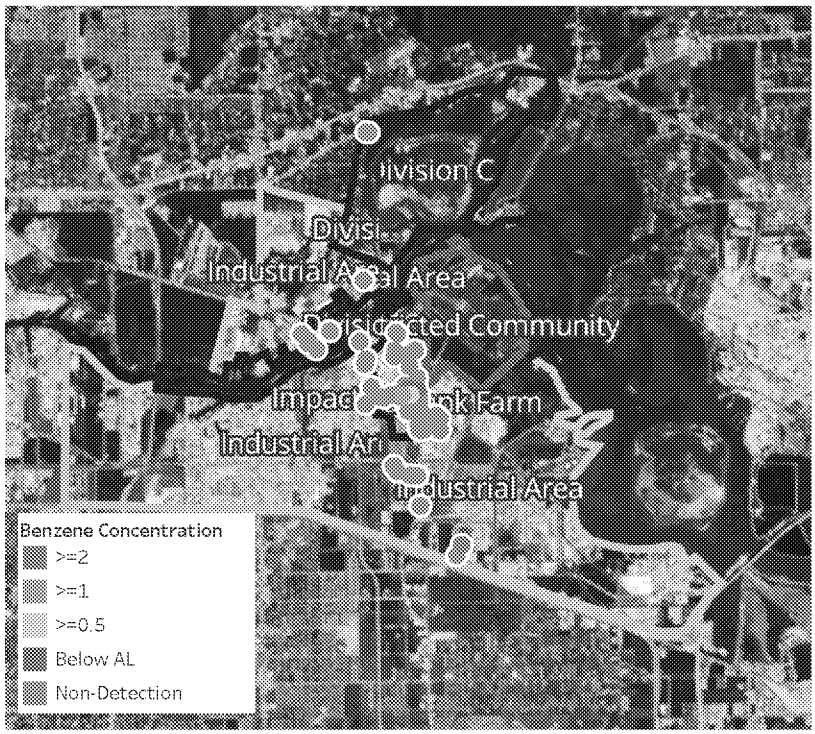
Recent Benzene Detections

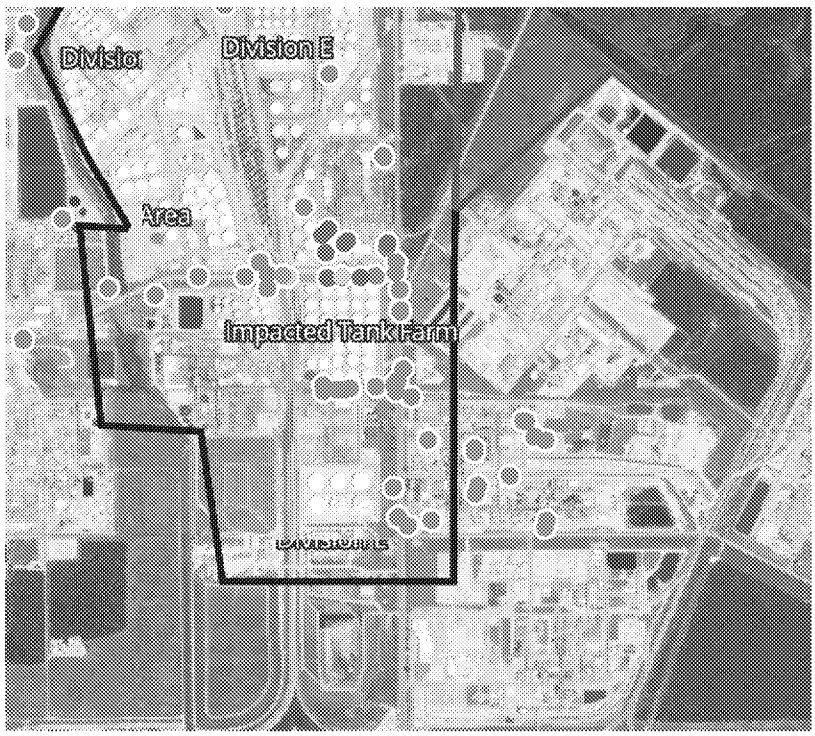
Location Category	Reading Date	Concentration
Division E	4/16/2019 04:22:46	0.1400 ppm
	4/16/2019 04:24:05	0.1900 ppm
	4/16/2019 04:34:18	0.5200 ppm
	4/16/2019 04:32:11	0.9600 ppm
	4/16/2019 04:34:42	0.1300 ppm
	4/16/2019 04:41:31	0.1500 ppm
	4/16/2019 04:36:59	0.8200 ppm
	4/16/2019 04:50:05	0.1700 ppm
	4/16/2019 04:48:01	0.1400 ppm
	4/16/2019 04:53:05	0.1600 ppm
	4/16/2019 04:57:22	0.4400 ppm
Impacted Tank Farm	4/16/2019 04:18:59	0.0800 ppm
	4/16/2019 04:22:44	0.0300 ppm
	4/16/2019 04:16:02	0.0400 ppm
	4/16/2019 04:59:46	0.2900 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 5:00:00 AM to 4/16/2019 6:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 05:00:37	0.290 ppm
	4/16/2019 05:03:42	0.800 ppm
	4/16/2019 05:25:06	1.060 ppm
	4/16/2019 05:23:10	0.930 ppm
	4/16/2019 05:21:38	0.160 ppm
	4/16/2019 05:23:58	0.080 ppm
	4/16/2019 05:31:46	0.175 ppm
	4/16/2019 05:55:52	0.250 ppm
	4/16/2019 05:53:28	0.100 ppm
	4/16/2019 05:49:32	0.060 ppm
	4/16/2019 05:56:37	0.200 ppm
	4/16/2019 05:54:36	0.130 ppm
	4/16/2019 05:58:56	0.200 ppm
Industrial Area	4/16/2019 05:31:03	3.850 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 5:00:00 AM to 4/16/2019 6:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 05:31:03	Industrial Area	29.7055080, -95.0807310	https://www.google.com/maps/search/?api=1&query=29.7055080,-95.0807310	3.850 ppm
4/16/2019 05:25:06	Division E	29.7382450, -95.0934000	https://www.google.com/maps/search/?api=1&query=29.7382450,-95.0934000	1.060 ppm

Message

From: Reid McLelland [RMcLelland@iterm.com]
Sent: 4/3/2019 11:17:19 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: Re: 20190403 Water Sampling

Certainly, will do.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Company LLC
281.884.0308
Rmclelland@iterm.com<mailto:Rmclelland@iterm.com>

On Apr 3, 2019, at 5:54 PM, Patel, Anish <patel.anish@epa.gov<mailto:patel.anish@epa.gov>> wrote:

Reid,

Please add me to this distribution list (see below).

Thanks

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency - Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Adams, Adam
Sent: Wednesday, April 3, 2019 5:42 PM
To: Patel, Anish <patel.anish@epa.gov<mailto:patel.anish@epa.gov>>
Subject: Fwd: 20190403 Water Sampling

Can you make sure your on this distribution list, please?
Sent from my iPhone

Begin forwarded message:
From: "Reid McLelland" <RMcLelland@iterm.com<mailto:RMcLelland@iterm.com>>
To: "Adams, Adam" <Adams.Adam@epa.gov<mailto:Adams.Adam@epa.gov>>,
"'spill12@tceq.texas.gov<mailto:spill12@tceq.texas.gov>'"
<spill12@tceq.texas.gov<mailto:spill12@tceq.texas.gov>>, "Mason, Steve"
<mason.steve@epa.gov<mailto:mason.steve@epa.gov>>,
"'craig.hill@pcs.hctx.net<mailto:craig.hill@pcs.hctx.net>'"
<craig.hill@pcs.hctx.net<mailto:craig.hill@pcs.hctx.net>>,
"'johnathan.martin@pcs.hctx.net<mailto:johnathan.martin@pcs.hctx.net>'"
<johnathan.martin@pcs.hctx.net<mailto:johnathan.martin@pcs.hctx.net>>, "Daniel Tighe"
<Daniel.Tighe@WestonSolutions.com<mailto:Daniel.Tighe@WestonSolutions.com>>,
"'b.latham@WestonSolutions.com<mailto:b.latham@WestonSolutions.com>'"
<b.latham@WestonSolutions.com<mailto:b.latham@WestonSolutions.com>>,
"'uscgimdhouston@gmail.com<mailto:uscgimdhouston@gmail.com>'"
<uscgimdhouston@gmail.com<mailto:uscgimdhouston@gmail.com>>,
"'nicole.bealle@tceq.texas.gov<mailto:nicole.bealle@tceq.texas.gov>'"
<nicole.bealle@tceq.texas.gov<mailto:nicole.bealle@tceq.texas.gov>>,
"'alma.walker@tceq.texas.gov<mailto:alma.walker@tceq.texas.gov>'"
<alma.walker@tceq.texas.gov<mailto:alma.walker@tceq.texas.gov>>, "Quiroz Guadalupe_TCEQ"
<Guadalupe.quiroz@tceq.texas.gov<mailto:Guadalupe.quiroz@tceq.texas.gov>>,
"'andy.goodridge@tceq.texas.gov<mailto:andy.goodridge@tceq.texas.gov>'"
<andy.goodridge@tceq.texas.gov<mailto:andy.goodridge@tceq.texas.gov>>,
"'karina.roche@tceq.texas.gov<mailto:karina.roche@tceq.texas.gov>'"
<karina.roche@tceq.texas.gov<mailto:karina.roche@tceq.texas.gov>>,
"'westin.massey@tceq.texas.gov<mailto:westin.massey@tceq.texas.gov>'"
<westin.massey@tceq.texas.gov<mailto:westin.massey@tceq.texas.gov>>,
"'nicole.d.rodriguez@uscg.mil<mailto:nicole.d.rodriguez@uscg.mil>'"
<nicole.d.rodriguez@uscg.mil<mailto:nicole.d.rodriguez@uscg.mil>>
Cc: "'harrison.reback@bakerbotts.com<mailto:harrison.reback@bakerbotts.com>'"
<harrison.reback@bakerbotts.com<mailto:harrison.reback@bakerbotts.com>>,
"matthew.kuryla@bakerbotts.com<mailto:matthew.kuryla@bakerbotts.com>"
<matthew.kuryla@bakerbotts.com<mailto:matthew.kuryla@bakerbotts.com>>, "Mike Taylor"

<mtaylor@iterm.com<mailto:mtaylor@iterm.com>>, "Reid McLelland"
<RMcLelland@iterm.com<mailto:RMcLelland@iterm.com>>, "Mike Gaudet"
<MGaudet@iterm.com<mailto:MGaudet@iterm.com>>,
"'mark.hamlin@bakerbotts.com<mailto:mark.hamlin@bakerbotts.com>'"
<mark.hamlin@bakerbotts.com<mailto:mark.hamlin@bakerbotts.com>>
Subject: 20190403 Water Sampling
See attached latest water sampling results.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com<mailto:rmclelland@iterm.com>

[cid:image004.jpg@01D029C0.80BB90E0][Untitled]

“An ounce of prevention is worth a pound of cure.” – Benjamin Franklin

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/16/2019 5:32:29 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Report
Attachments: 20190416_1100_Benzene_Report.pdf; 20190416_1200_Benzene_Report.pdf

All,

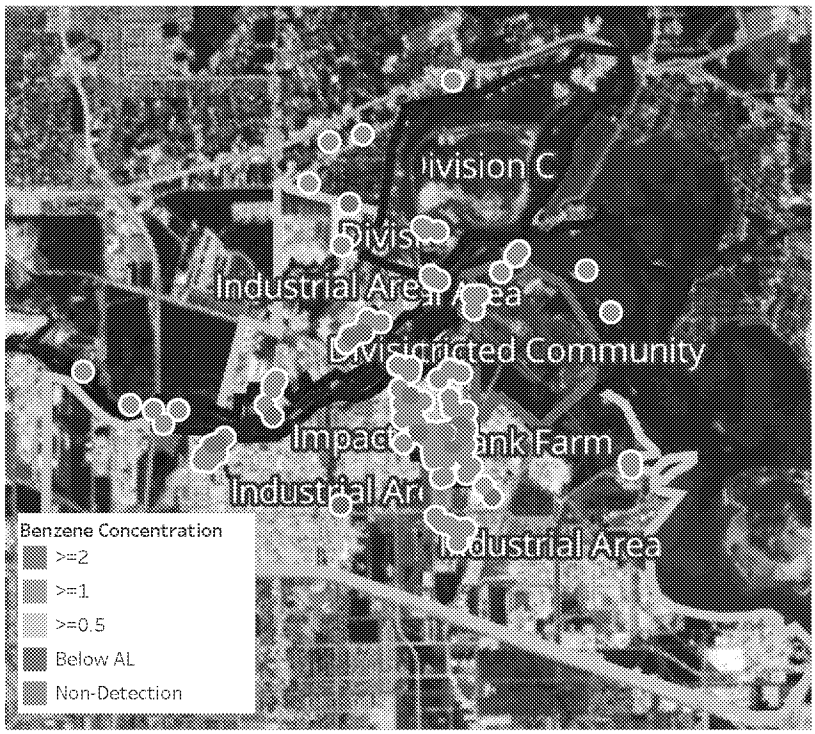
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

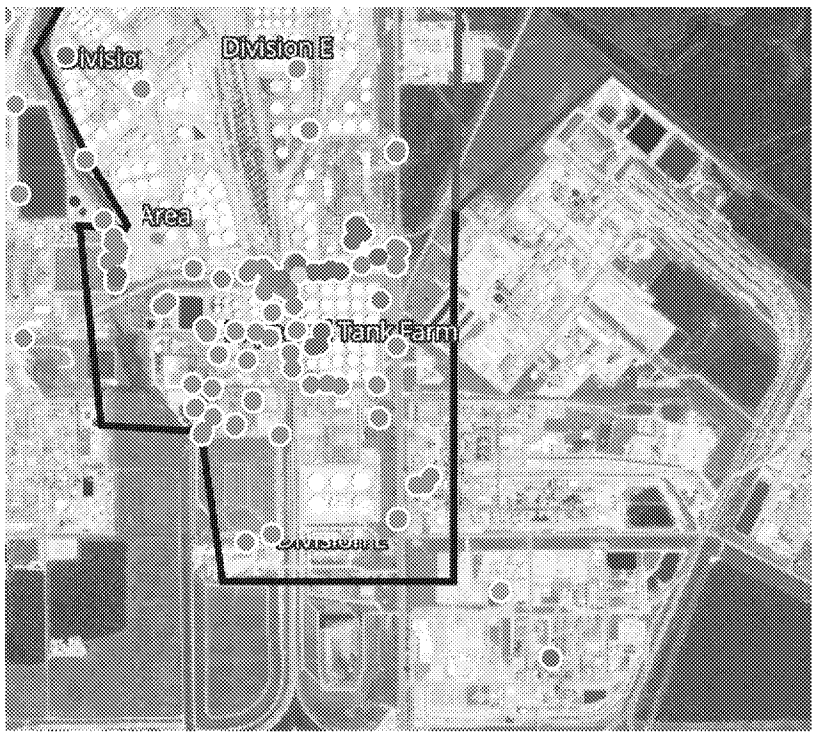
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 10:00:00 AM to 4/16/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Below Grate	4/16/2019 10:16:05	0.10 ppm
	4/16/2019 10:26:40	0.08 ppm
Division A	4/16/2019 10:00:22	0.03 ppm
	4/16/2019 10:13:12	0.07 ppm
	4/16/2019 10:16:51	0.03 ppm
Division C	4/16/2019 10:10:46	0.25 ppm
Division E	4/16/2019 10:01:59	0.23 ppm
	4/16/2019 10:09:57	0.02 ppm
	4/16/2019 10:14:12	0.14 ppm
	4/16/2019 10:21:12	0.03 ppm
	4/16/2019 10:26:57	0.10 ppm
	4/16/2019 10:27:25	0.59 ppm
	4/16/2019 10:30:38	0.23 ppm
	4/16/2019 10:31:02	0.48 ppm
	4/16/2019 10:37:29	0.10 ppm
	4/16/2019 10:40:37	0.42 ppm
	4/16/2019 10:40:57	0.13 ppm
	4/16/2019 10:07:24	0.08 ppm
	4/16/2019 10:28:03	0.06 ppm
	4/16/2019 10:09:10	0.08 ppm
	4/16/2019 10:47:49	1.06 ppm
	4/16/2019 10:50:38	0.15 ppm
	4/16/2019 10:53:24	0.02 ppm
	4/16/2019 10:55:12	2.18 ppm
	4/16/2019 10:57:46	0.25 ppm
Impacted Tank Farm	4/16/2019 10:03:58	0.30 ppm
	4/16/2019 10:09:17	10.40 ppm
	4/16/2019 10:12:52	0.08 ppm
	4/16/2019 10:24:38	0.04 ppm
	4/16/2019 10:38:01	0.04 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 10:00:00 AM to 4/16/2019 11:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

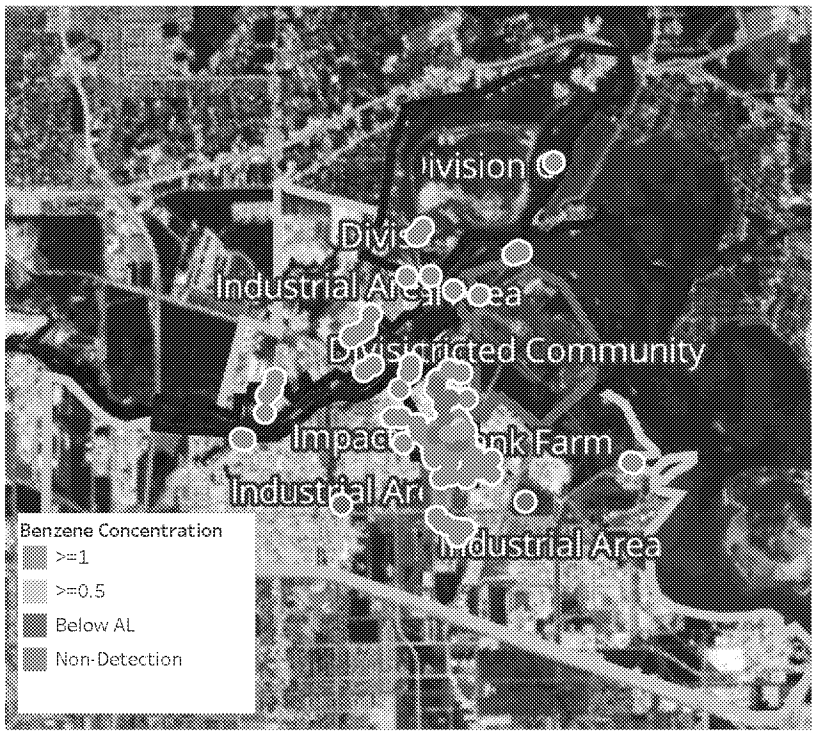
Recent Benzene Detections Greater than 1.00 ppm

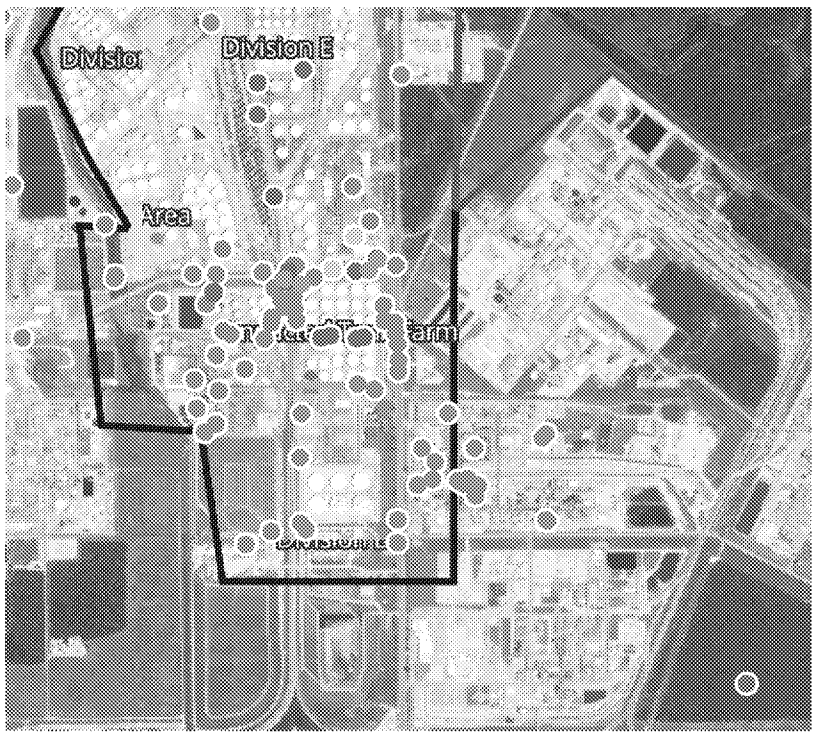
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 10:55:12	Division E	29.7531604,-95.0935677	https://www.google.com/maps/search/?api=1&query=29.7531604,-95.0935677	2.190 ppm
4/16/2019 10:47:49	Division E	29.7248960,-95.0867600	https://www.google.com/maps/search/?api=1&query=29.7248960,-95.0867600	1.060 ppm
4/16/2019 10:09:17	Impacted Tank Farm	29.7225940,-95.0904210	https://www.google.com/maps/search/?api=1&query=29.7225940,-95.0904210	10.400 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 11:00:00 AM to 4/16/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 11:01:14	1.040 ppm
	4/16/2019 11:03:45	1.190 ppm
	4/16/2019 11:03:10	0.450 ppm
	4/16/2019 11:06:18	0.760 ppm
	4/16/2019 11:09:27	0.060 ppm
	4/16/2019 11:10:08	0.260 ppm
	4/16/2019 11:10:37	0.020 ppm
	4/16/2019 11:13:38	0.050 ppm
	4/16/2019 11:12:32	0.110 ppm
	4/16/2019 11:19:25	0.040 ppm
	4/16/2019 11:15:18	0.020 ppm
	4/16/2019 11:20:26	0.880 ppm
	4/16/2019 11:20:03	1.200 ppm
	4/16/2019 11:14:33	1.340 ppm
	4/16/2019 11:24:36	0.110 ppm
	4/16/2019 11:26:59	0.040 ppm
	4/16/2019 11:30:56	0.250 ppm
	4/16/2019 11:39:52	0.030 ppm
Impacted Tank Farm	4/16/2019 11:19:26	0.050 ppm
	4/16/2019 11:23:19	0.020 ppm
	4/16/2019 11:28:28	0.120 ppm
	4/16/2019 11:50:44	0.060 ppm
	4/16/2019 11:54:33	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 11:00:00 AM to 4/16/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 11:20:03	Division E	29.7536770,-95.0905030	https://www.google.com/maps/search/?api=1&query=29.7536770,-95.0905030	1.2000 ppm
4/16/2019 11:14:33	Division E	29.7333760,-95.0907710	https://www.google.com/maps/search/?api=1&query=29.7333760,-95.0907710	1.3400 ppm
4/16/2019 11:03:45	Division E	29.7350120,-95.0928280	https://www.google.com/maps/search/?api=1&query=29.7350120,-95.0928280	1.1900 ppm
4/16/2019 11:01:14	Division E	29.7351460,-95.0933580	https://www.google.com/maps/search/?api=1&query=29.7351460,-95.0933580	1.0400 ppm

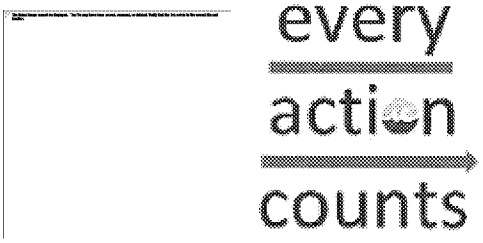
Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Reid McLelland [RMcLelland@iterm.com]
Sent: 4/16/2019 3:14:58 PM
To: 'spill12@tceq.texas.gov' [spill12@tceq.texas.gov]; 'craig.hill@pcs.hctx.net' [craig.hill@pcs.hctx.net]; 'johnathan.martin@pcs.hctx.net' [johnathan.martin@pcs.hctx.net]; 'b.latham@WestonSolutions.com' [b.latham@WestonSolutions.com]; 'uscgimdhouston@gmail.com' [uscgimdhouston@gmail.com]; 'nicole.bealle@tceq.texas.gov' [nicole.bealle@tceq.texas.gov]; 'alma.walker@tceq.texas.gov' [alma.walker@tceq.texas.gov]; Quiroz Guadalupe_TCEQ [Guadalupe.quiroz@tceq.texas.gov]; 'andy.goodridge@tceq.texas.gov' [andy.goodridge@tceq.texas.gov]; 'karina.roche@tceq.texas.gov' [karina.roche@tceq.texas.gov]; 'westin.massey@tceq.texas.gov' [westin.massey@tceq.texas.gov]; 'nicole.d.rodriguez@uscg.mil' [nicole.d.rodriguez@uscg.mil]; Patel, Anish [patel.anish@epa.gov]; Spall, Amy [amy.spall@westonsolutions.com]
CC: 'harrison.reback@bakerbotts.com' [harrison.reback@bakerbotts.com]; matthew.kuryla@bakerbotts.com; Mike Taylor [mtaylor@iterm.com]; Reid McLelland [RMcLelland@iterm.com]; Mike Gaudet [MGaudet@iterm.com]; 'mark.hamlin@bakerbotts.com' [mark.hamlin@bakerbotts.com]
Subject: Latest Water Sampling
Attachments: ATT00001.txt; HS19040661 Gate 13 Ditch Final.pdf; HS19040737 Gate 13 Ditch Final.pdf

Please see attached.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/16/2019 9:11:53 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190416_0300_benzene_report.pdf; 20190416_0400_benzene_report.pdf

All,

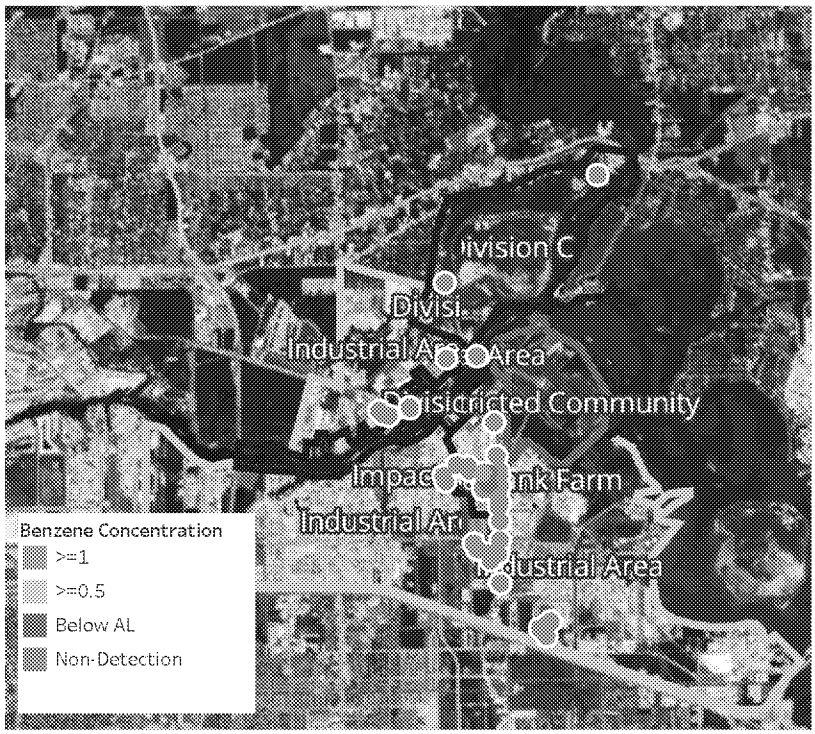
Attached are the benzene reports from 0200 – 0400.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 2:00:00 AM to 4/16/2019 3:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 02:00:51	0.1900 ppm
	4/16/2019 02:11:09	0.1300 ppm
	4/16/2019 02:29:23	0.0700 ppm
	4/16/2019 02:36:53	0.3700 ppm
	4/16/2019 02:32:05	1.0000 ppm
	4/16/2019 02:41:57	0.9500 ppm
	4/16/2019 02:45:26	0.4700 ppm
	4/16/2019 02:50:40	0.1100 ppm
	4/16/2019 02:52:58	0.0700 ppm
Impacted Tank Farm	4/16/2019 02:49:28	0.0700 ppm
	4/16/2019 02:54:49	0.0600 ppm
	4/16/2019 02:50:06	0.1700 ppm
	4/16/2019 02:58:34	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 2:00:00 AM to 4/16/2019 3:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

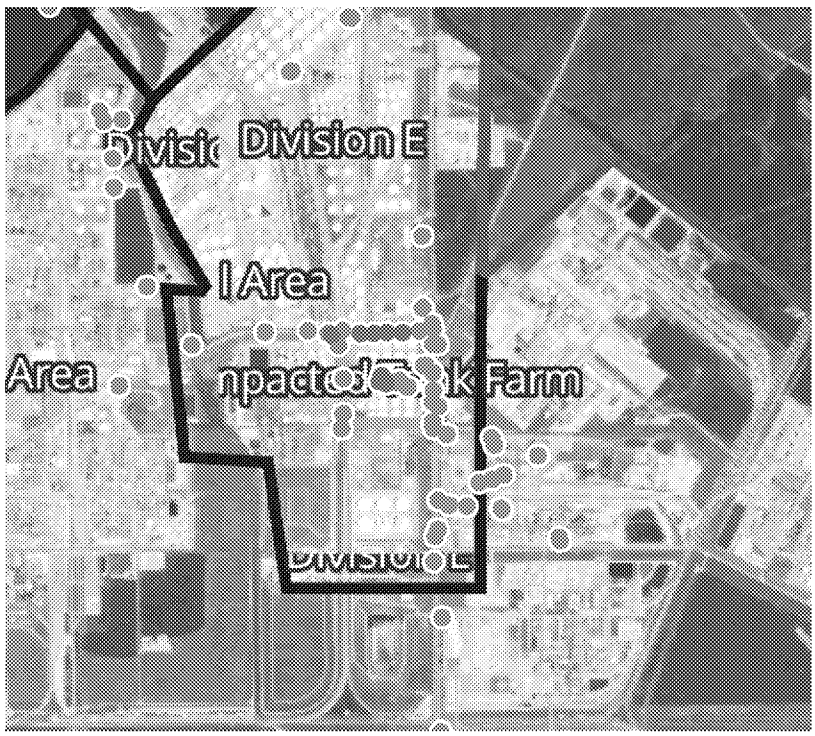
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 02:32:05	Division E	29.7531680,-95.0933650	https://www.google.com/maps/search/?api=1&query=29.7531680,-95.0933650	1.000 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 3:00:00 AM to 4/16/2019 4:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 03:42:53	0.1300 ppm
	4/16/2019 03:40:20	0.3700 ppm
	4/16/2019 03:47:13	0.1600 ppm
	4/16/2019 03:49:38	0.1800 ppm
	4/16/2019 03:36:59	0.1200 ppm
Impacted Tank Farm	4/16/2019 03:02:28	0.0600 ppm
	4/16/2019 03:08:26	0.0500 ppm
	4/16/2019 03:02:22	0.1000 ppm
	4/16/2019 03:10:27	0.1100 ppm

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Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/16/2019 8:05:45 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0200 Benzene Update
Attachments: 20190416_0100_benzene_report.pdf; 20190416_0200_benzene_report.pdf

All,

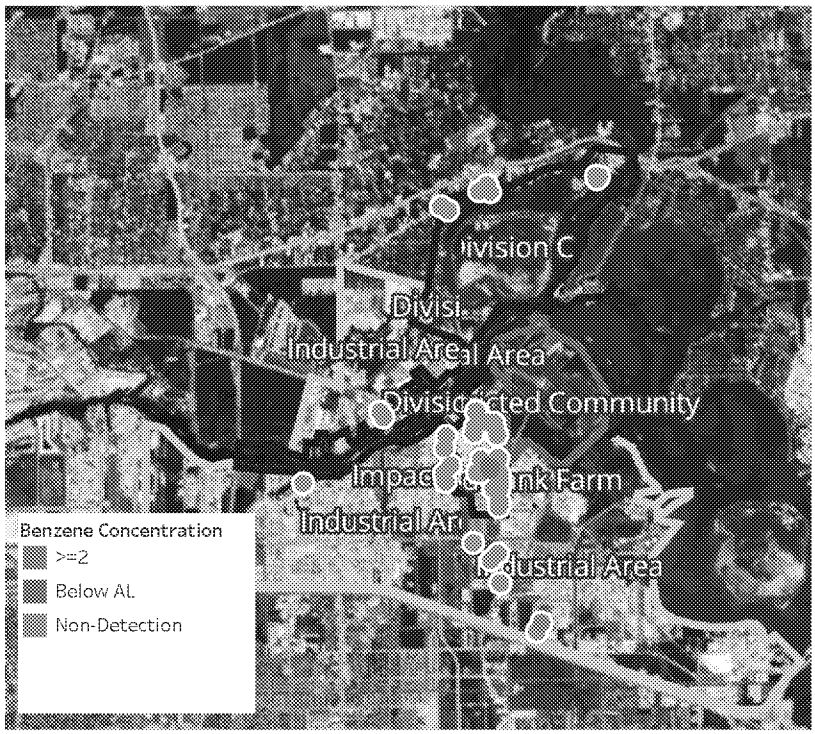
Attached are the benzene reports from 0000 – 0200. There was one notable benzene detection in the Braskem facility. The reading was taken directly downwind of a ventilation pipe. The site manager for Braskem has been notified of this detection.

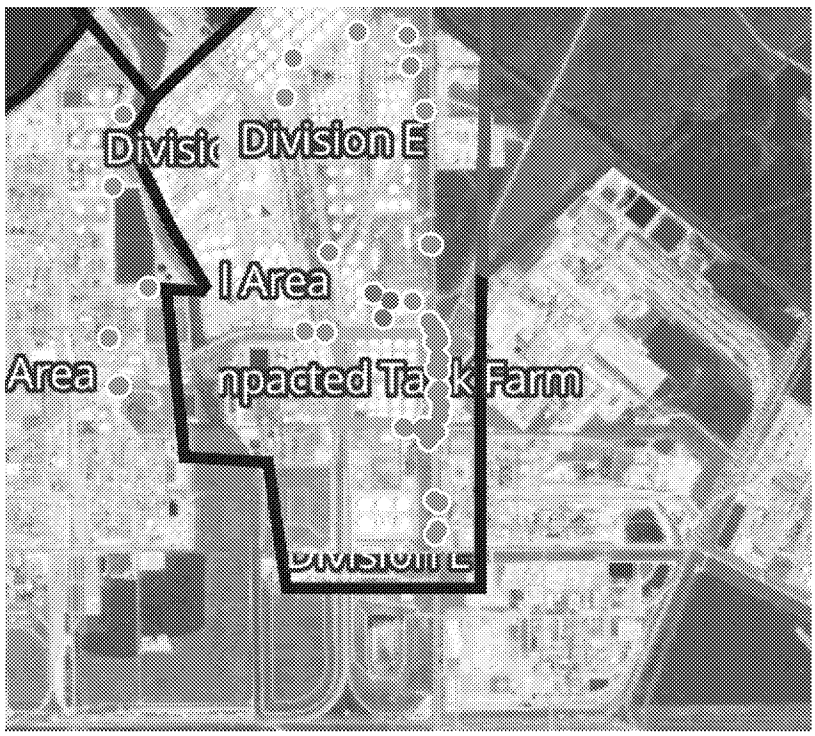
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 12:00:00 AM to 4/16/2019 1:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 00:23:01	0.32 ppm
	4/16/2019 00:30:57	0.23 ppm
	4/16/2019 00:26:47	0.24 ppm
Industrial Area	4/16/2019 00:58:56	10.35 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 12:00:00 AM to 4/16/2019 1:00:00 AM

Benzene Action Level Concentration (ppm)
>=2

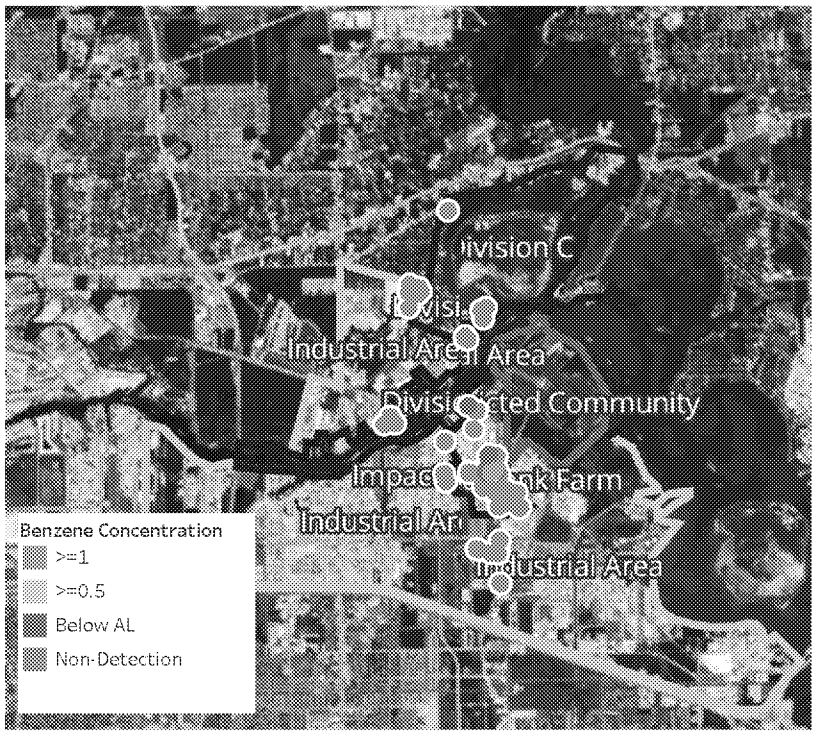
PRELIMINARY

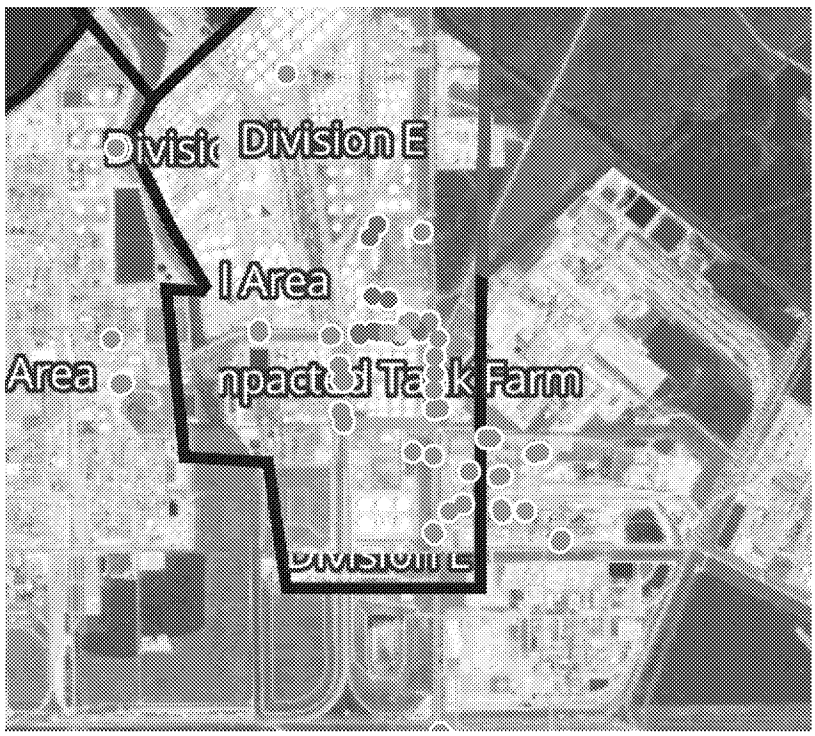
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 00:58:56	Industrial Area	29.7052900,-95.0807170	https://www.google.com/maps/search/?api=1&query=29.7052900,-95.0807170	10.35 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 1:00:00 AM to 4/16/2019 2:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 01:00:29	1.200 ppm
	4/16/2019 01:12:39	1.190 ppm
	4/16/2019 01:02:54	0.360 ppm
	4/16/2019 01:06:51	0.620 ppm
	4/16/2019 01:15:22	0.540 ppm
	4/16/2019 01:17:33	0.210 ppm
	4/16/2019 01:23:30	0.200 ppm
	4/16/2019 01:09:09	0.190 ppm
	4/16/2019 01:09:01	0.030 ppm
	4/16/2019 01:59:06	0.060 ppm
	4/16/2019 01:56:27	0.230 ppm
	4/16/2019 01:53:30	0.250 ppm
	4/16/2019 01:50:37	0.440 ppm
	4/16/2019 01:57:32	1.110 ppm
	4/16/2019 01:20:24	0.250 ppm
	4/16/2019 01:23:30	0.350 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 1:00:00 AM to 4/16/2019 2:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 01:57:32	Division E	29.7532040,-95.0915530	https://www.google.com/maps/search/?api=1&query=29.7532040,-95.0915530	3.11000 ppm
4/16/2019 01:12:39	Division E	29.7332210,-95.0915600	https://www.google.com/maps/search/?api=1&query=29.7332210,-95.0915600	3.19000 ppm
4/16/2019 01:00:29	Division E	29.7355950,-95.0907080	https://www.google.com/maps/search/?api=1&query=29.7355950,-95.0907080	1.20000 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/16/2019 5:12:03 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2400 Benzene Update
Attachments: 20190415_2300_benzene_report.pdf; 20190416_0000_benzene_report.pdf

All,

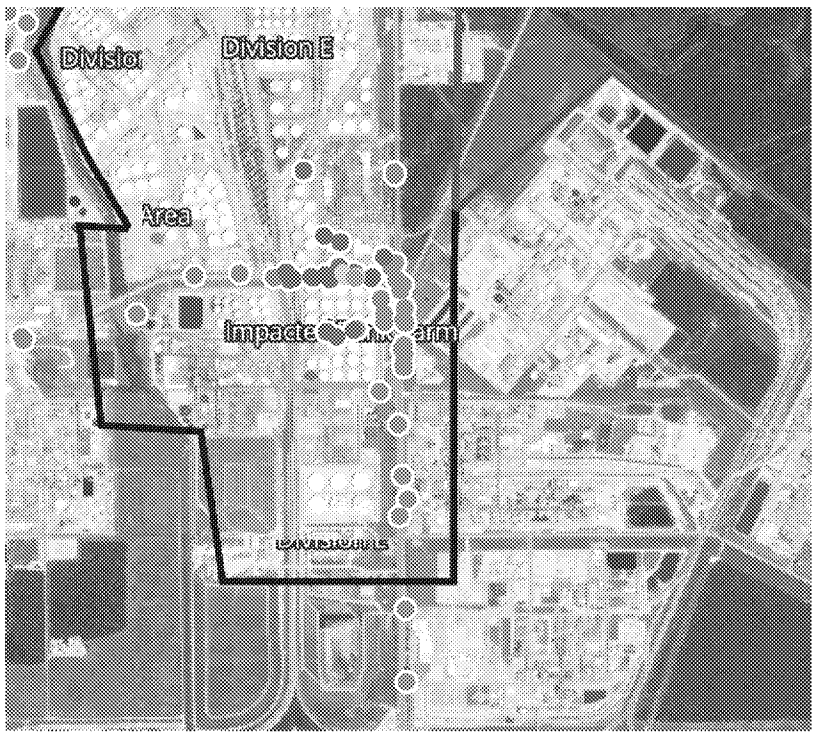
Attached are the benzene reports from 2200 – 2400.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 10:00:00 PM to 4/15/2019 11:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 22:20:37	0.0900 ppm
	4/15/2019 22:23:29	0.2900 ppm
	4/15/2019 22:25:07	0.6900 ppm
	4/15/2019 22:23:08	0.2300 ppm
	4/15/2019 22:27:19	0.6800 ppm
	4/15/2019 22:27:47	0.1500 ppm
	4/15/2019 22:31:12	0.3600 ppm
	4/15/2019 22:31:29	0.3000 ppm
	4/15/2019 22:32:36	0.1000 ppm
	4/15/2019 22:36:47	0.1100 ppm
	4/15/2019 22:21:38	0.3200 ppm
	4/15/2019 22:41:05	0.2000 ppm
	4/15/2019 22:20:39	0.1700 ppm
	4/15/2019 22:42:32	0.1700 ppm
	4/15/2019 22:30:07	0.6900 ppm
	4/15/2019 22:39:28	0.2100 ppm
	4/15/2019 22:24:59	1.0100 ppm
	4/15/2019 22:33:51	0.3300 ppm
	4/15/2019 22:58:18	0.2750 ppm
Impacted Tank Farm	4/15/2019 22:16:28	0.0500 ppm
	4/15/2019 22:12:51	0.0500 ppm
	4/15/2019 22:20:58	0.0500 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 10:00:00 PM to 4/15/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

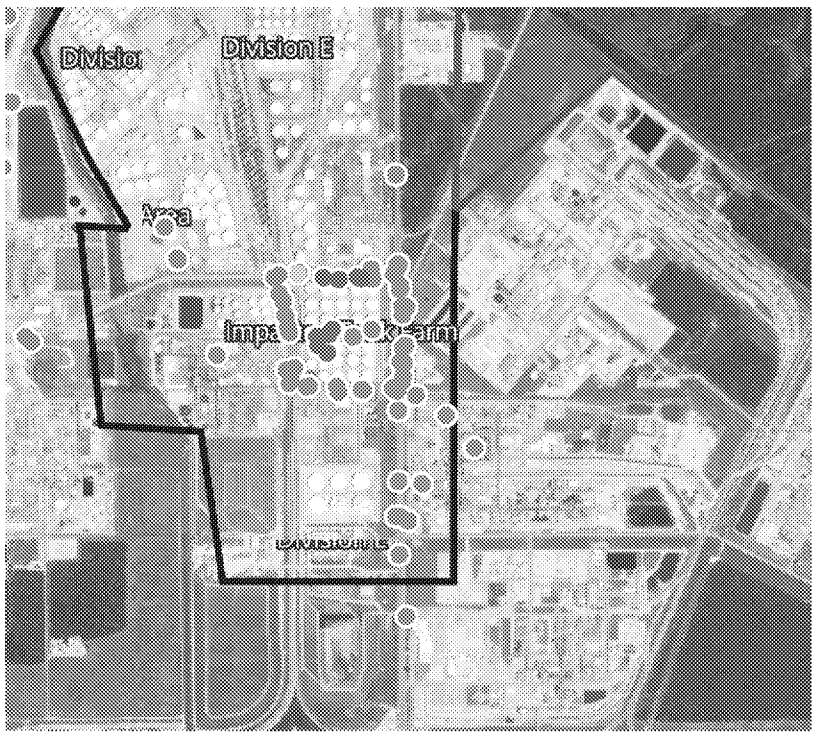
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 22:24:59	Division E	29.7531790,-95.0912040	https://www.google.com/maps/search/?api=1&query=29.7531790,-95.0912040	1.010 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 11:00:00 PM to 4/16/2019 12:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/15/2019 23:13:56	0.3750 ppm
	4/15/2019 23:10:16	0.1750 ppm
	4/15/2019 23:23:25	0.6750 ppm
Division E	4/15/2019 23:42:25	0.2400 ppm
	4/15/2019 23:43:29	0.3100 ppm
	4/15/2019 23:46:18	0.4000 ppm
	4/15/2019 23:51:15	0.1600 ppm
Impacted Tank Farm	4/15/2019 23:38:05	0.0700 ppm
	4/15/2019 23:24:15	0.0300 ppm
	4/15/2019 23:33:14	0.0800 ppm
	4/15/2019 23:48:36	0.0200 ppm
	4/15/2019 23:40:36	0.0200 ppm

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Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/16/2019 3:14:24 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190416_1000_Benzene_Report.pdf; 20190416_0900_Benzene_Report.pdf

All,

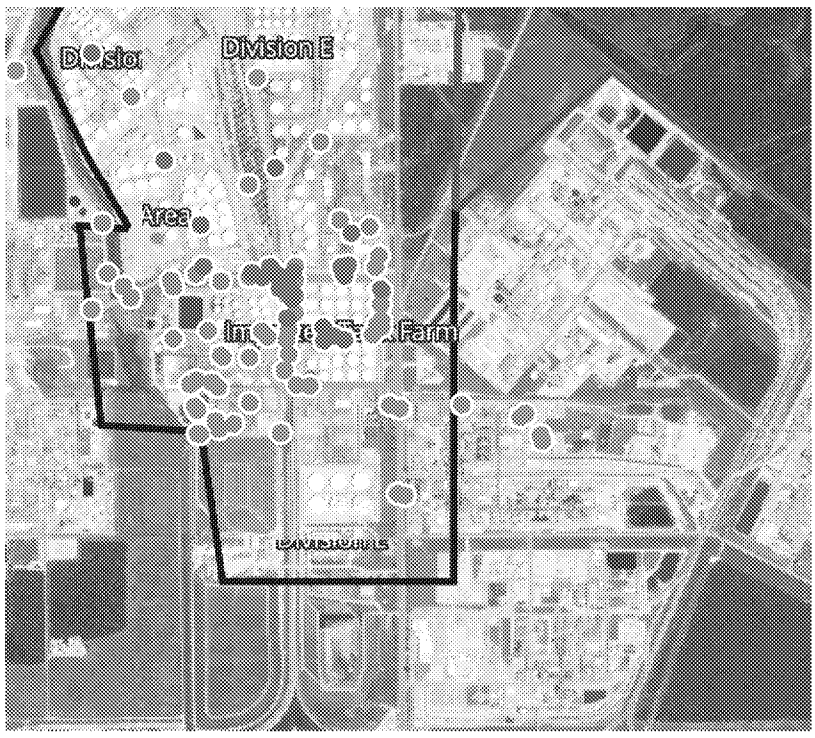
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 8:00:00 AM to 4/16/2019 9:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/16/2019 08:04:56	0.0200 ppm
	4/16/2019 08:12:39	0.4000 ppm
	4/16/2019 08:33:38	0.0750 ppm
	4/16/2019 08:48:23	0.0500 ppm
Division E	4/16/2019 08:07:08	0.0900 ppm
	4/16/2019 08:13:28	0.0300 ppm
	4/16/2019 08:19:32	0.1000 ppm
	4/16/2019 08:14:34	0.0200 ppm
	4/16/2019 08:26:10	0.0700 ppm
	4/16/2019 08:32:07	0.0600 ppm
	4/16/2019 08:34:55	0.0700 ppm
	4/16/2019 08:28:09	0.0200 ppm
	4/16/2019 08:42:58	0.0300 ppm
	4/16/2019 08:33:53	0.0300 ppm
	4/16/2019 08:24:35	0.0700 ppm
	4/16/2019 08:48:23	0.0500 ppm
	4/16/2019 08:59:44	0.1400 ppm
	4/16/2019 08:47:45	0.3300 ppm
	4/16/2019 08:51:54	0.1200 ppm
	4/16/2019 08:49:30	0.0600 ppm
	4/16/2019 08:59:06	0.0700 ppm
	4/16/2019 08:52:33	0.0600 ppm
	4/16/2019 08:48:03	0.0400 ppm
Impacted Tank Farm	4/16/2019 08:18:37	0.0400 ppm
	4/16/2019 08:13:41	0.1300 ppm
	4/16/2019 08:24:08	0.0500 ppm
	4/16/2019 08:29:05	0.0500 ppm
	4/16/2019 08:39:21	0.2000 ppm
	4/16/2019 08:50:43	0.2200 ppm
	4/16/2019 08:50:00	0.0500 ppm
	4/16/2019 08:55:33	0.1000 ppm
	4/16/2019 08:57:24	0.1500 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 8:00:00 AM to 4/16/2019 9:00:00 AM

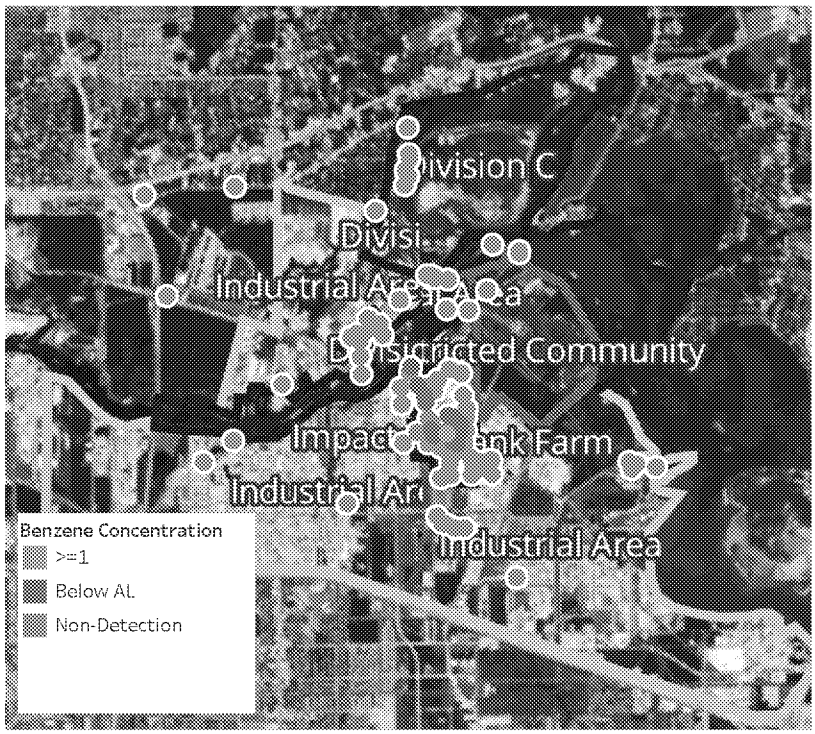
Benzene Action Level Concentration (ppm)

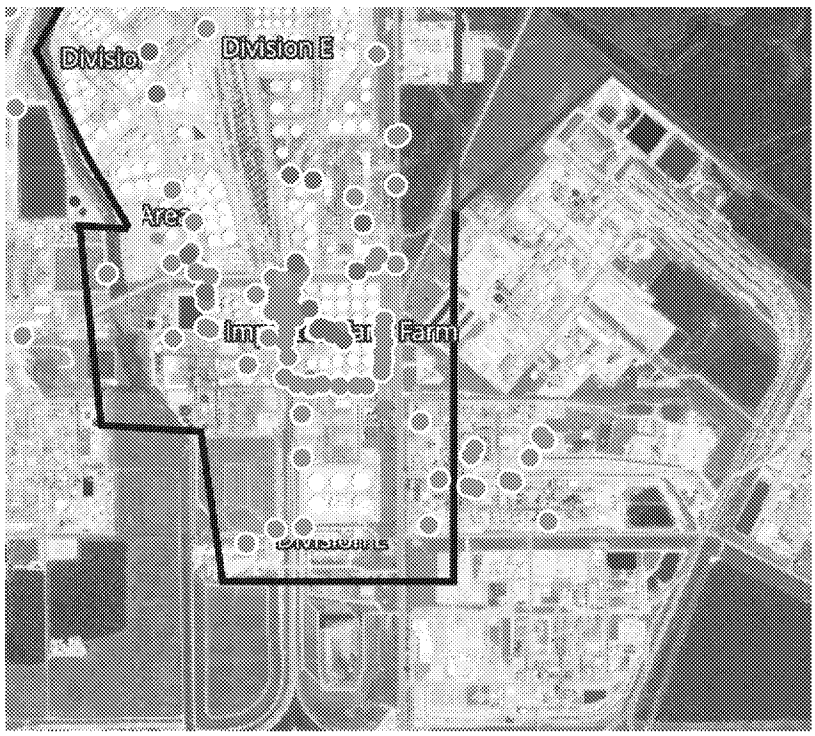
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 9:00:00 AM to 4/16/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/16/2019 09:28:08	0.050 ppm
Division E	4/16/2019 09:03:21	0.225 ppm
	4/16/2019 09:04:17	1.530 ppm
	4/16/2019 09:11:47	0.030 ppm
	4/16/2019 09:24:18	0.010 ppm
	4/16/2019 09:13:05	0.020 ppm
	4/16/2019 09:01:11	0.150 ppm
	4/16/2019 09:36:14	0.140 ppm
	4/16/2019 09:41:12	0.070 ppm
	4/16/2019 09:37:36	0.020 ppm
	4/16/2019 09:29:05	0.020 ppm
	4/16/2019 09:52:29	0.060 ppm
	4/16/2019 09:52:52	0.350 ppm
	4/16/2019 09:59:35	0.100 ppm
Impacted Tank Farm	4/16/2019 09:08:35	0.140 ppm
	4/16/2019 09:11:46	0.110 ppm
	4/16/2019 09:16:44	0.030 ppm
	4/16/2019 09:33:28	0.040 ppm
	4/16/2019 09:43:00	0.150 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 9:00:00 AM to 4/16/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/16/2019 09:04:17	Division E	29.7531250,-95.0933910	https://www.google.com/maps/search/?api=1&query=29.7531250,-95.0933910	1.530 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/16/2019 3:21:50 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190415_2100_benzene_report.pdf; 20190415_2200_benzene_report.pdf

All,

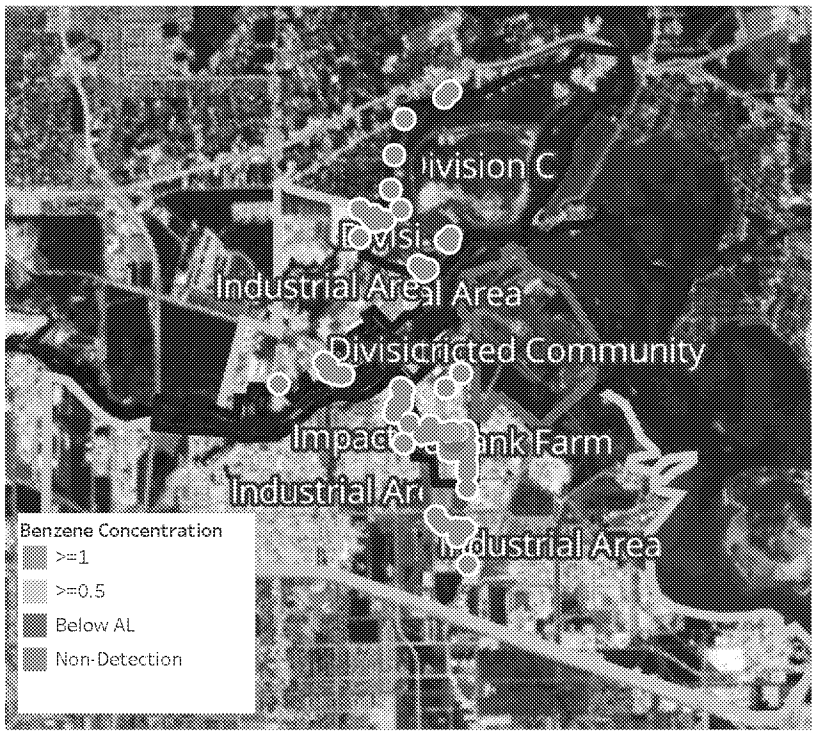
Attached are the benzene reports from 2000 – 2200.

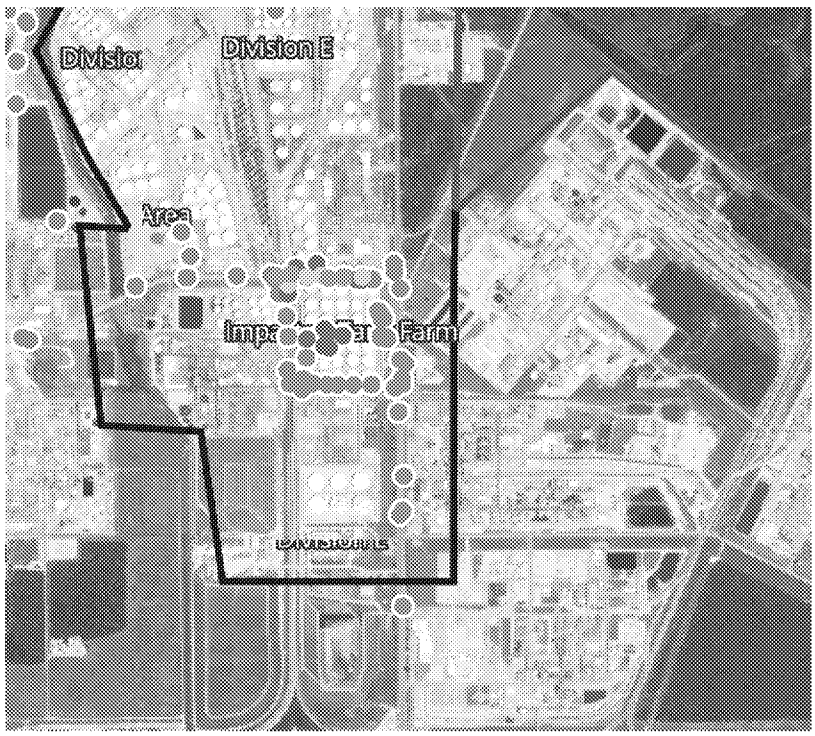
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 8:00:00 PM to 4/15/2019 9:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 20:11:02	0.370 ppm
	4/15/2019 20:09:09	0.350 ppm
	4/15/2019 20:17:46	0.660 ppm
	4/15/2019 20:11:31	0.820 ppm
	4/15/2019 20:19:36	0.900 ppm
	4/15/2019 20:23:13	0.820 ppm
	4/15/2019 20:05:34	0.150 ppm
	4/15/2019 20:27:49	0.440 ppm
	4/15/2019 20:32:04	0.460 ppm
	4/15/2019 20:34:11	0.750 ppm
	4/15/2019 20:38:29	1.000 ppm
	4/15/2019 20:20:10	1.330 ppm
	4/15/2019 20:29:01	0.910 ppm
	4/15/2019 20:34:59	0.710 ppm
	4/15/2019 20:24:47	1.180 ppm
	4/15/2019 20:50:56	1.260 ppm
	4/15/2019 20:20:09	0.170 ppm
Impacted Tank Farm	4/15/2019 20:01:57	0.030 ppm
	4/15/2019 20:09:59	0.040 ppm
	4/15/2019 20:20:29	0.110 ppm
	4/15/2019 20:22:25	0.030 ppm
	4/15/2019 20:32:11	0.040 ppm
	4/15/2019 20:35:50	0.190 ppm

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Reading Date
4/15/2019 8:00:00 PM to 4/15/2019 9:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

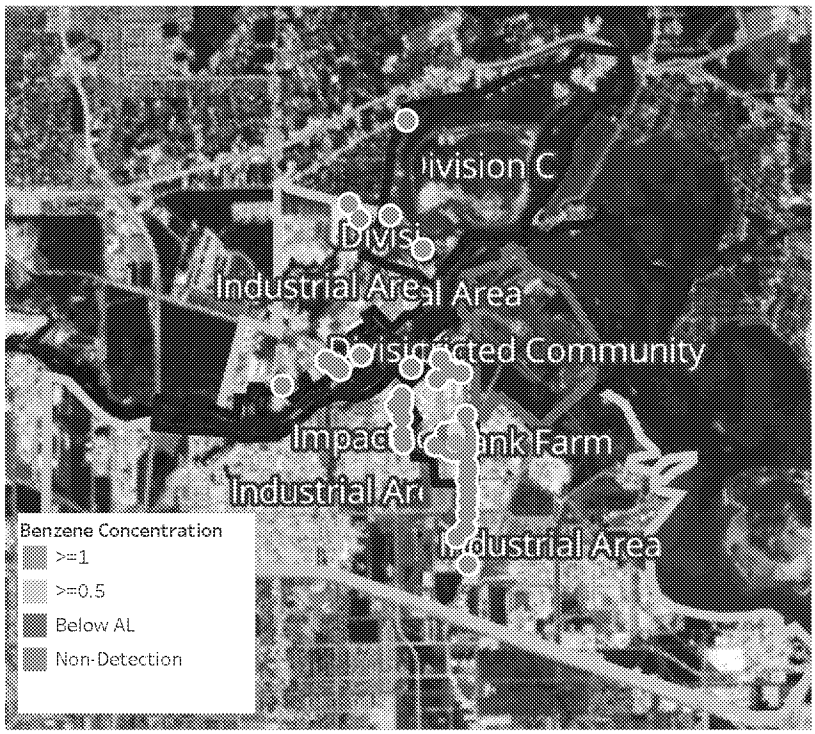
PRELIMINARY

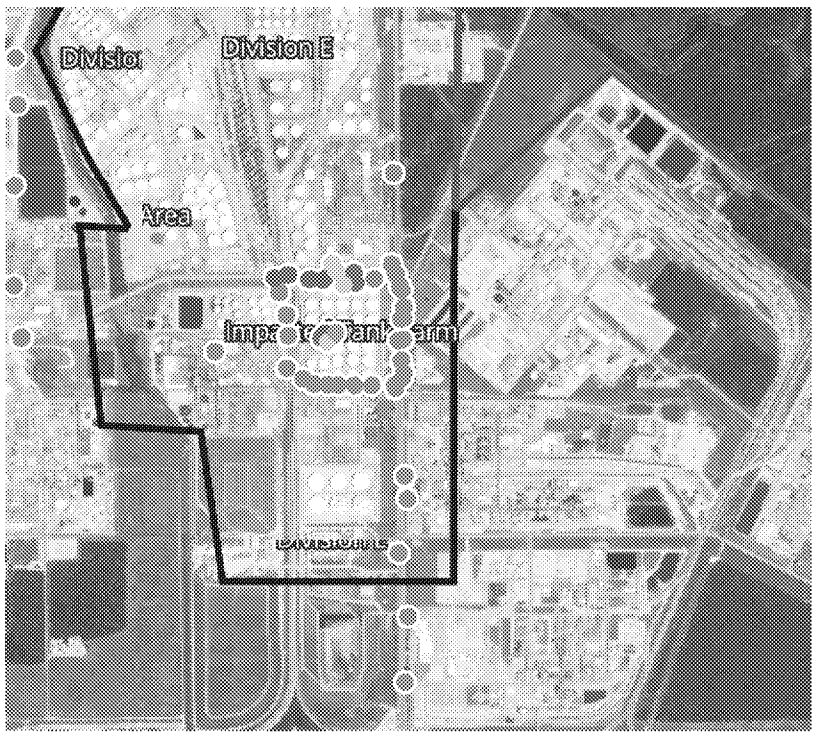
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 20:50:56	Division E	29.7332650,-95.0931550	https://www.google.com/maps/search/?api=1&query=29.7332650,-95.0931550	1.2500 ppm
4/15/2019 20:38:29	Division E	29.7332340,-95.0935760	https://www.google.com/maps/search/?api=1&query=29.7332340,-95.0935760	1.0000 ppm
4/15/2019 20:24:47	Division E	29.7351740,-95.0920110	https://www.google.com/maps/search/?api=1&query=29.7351740,-95.0920110	1.1300 ppm
4/15/2019 20:20:10	Division E	29.7352100,-95.0915210	https://www.google.com/maps/search/?api=1&query=29.7352100,-95.0915210	1.5300 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 9:00:00 PM to 4/15/2019 10:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 21:25:08	0.190 ppm
	4/15/2019 21:13:47	0.040 ppm
	4/15/2019 21:29:28	0.510 ppm
	4/15/2019 21:24:04	0.360 ppm
	4/15/2019 21:33:46	0.260 ppm
	4/15/2019 21:28:42	0.940 ppm
	4/15/2019 21:29:25	0.680 ppm
	4/15/2019 21:37:22	0.110 ppm
	4/15/2019 21:42:34	0.220 ppm
	4/15/2019 21:34:21	0.360 ppm
	4/15/2019 21:43:05	0.220 ppm
	4/15/2019 21:39:39	0.100 ppm
Impacted Tank Farm	4/15/2019 21:26:42	0.150 ppm
	4/15/2019 21:24:59	0.620 ppm
	4/15/2019 21:31:30	0.160 ppm
	4/15/2019 21:29:47	1.680 ppm
	4/15/2019 21:41:40	0.170 ppm
	4/15/2019 21:54:33	0.160 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 9:00:00 PM to 4/15/2019 10:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 21:29:47	Impacted Tank Farm	29.7517330,-95.0917900	https://www.google.com/maps/search/?api=1&query=29.7517330,-95.0917900	1.690 ppm

Message

From: Rhotenberry, William [Rhotenberry.William@epa.gov]
Sent: 4/7/2019 4:37:07 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: RE: WebIAP Login - EPA

I just come to main office on Independence? Any parking issues?

From: Patel, Anish
Sent: Sunday, April 7, 2019 11:25 AM
To: Rhotenberry, William <Rhotenberry.William@epa.gov>
Subject: RE: WebIAP Login - EPA

See you later today!

From: Rhotenberry, William
Sent: Sunday, April 7, 2019 11:13 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: RE: WebIAP Login - EPA

Thanks Anesh. Btw I booked a room at HIE Deer Park.

From: Patel, Anish
Sent: Sunday, April 7, 2019 10:38 AM
To: Martin, John <martin.john@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>; Brescia, Nicolas <brescia.nicolas@epa.gov>; Rhotenberry, William <Rhotenberry.William@epa.gov>
Subject: FW: WebIAP Login - EPA

Attached is the login information for accessing the maps from ITC.

From: Lance Tannehill <ltannehill@responsegroupinc.com>
Sent: Sunday, April 7, 2019 9:12 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: WebIAP Login - EPA

Hello Anish,

Please see the attached item. Let me know if you have any Navigation or Software questions.

Thanks,

Lance Tannehill
Response & Exercise Leader
The Response Group
108 Innwood Drive
Covington, LA 70433

Mobile: (985) 249-9002

Office: (985) 400-5444 x305
24 Hr: (281) 880-5000
Fax: (281) 880-5005
www.responsegroupinc.com
Sign up for our Email Newsletter

Message

From: Scott Malm [smalm@cteh.com]
Sent: 4/7/2019 4:29:27 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: Electronic Copy of CTEH Analytical Air Sampling Adjustment Plan
Attachments: Deer Park Tank Fire - Analytical Air Adjustment Plan V.S. 1.0.pdf

Hi Anish,

Please see the attached file for an electronic copy of the Analytical Air Sampling Adjustment Plan we discussed earlier.

Thanks very much,

Scott Malm, Ph.D.
Toxicologist
CTEH, LLC
Office: 501-801-8614 | Mobile: 501-800-6729
Emergency Response 24-Hour Hotline: +1(866) 869-2834
smalm@cteh.com |www.cteh.com

Message

From: Rhotenberry, William [Rhotenberry.William@epa.gov]
Sent: 4/7/2019 4:13:19 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: RE: WebIAP Login - EPA

Thanks Anesh. Btw I booked a room at HIE Deer Park.

From: Patel, Anish
Sent: Sunday, April 7, 2019 10:38 AM
To: Martin, John <martin.john@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>; Brescia, Nicolas <brescia.nicolas@epa.gov>; Rhotenberry, William <Rhotenberry.William@epa.gov>
Subject: FW: WebIAP Login - EPA

Attached is the login information for accessing the maps from ITC.

From: Lance Tannehill <ltannehill@responsegroupinc.com>
Sent: Sunday, April 7, 2019 9:12 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: WebIAP Login - EPA

Hello Anish,

Please see the attached item. Let me know if you have any Navigation or Software questions.

Thanks,

Lance Tannehill
Response & Exercise Leader
The Response Group
108 Innwood Drive
Covington, LA 70433

Mobile: (985) 249-9002
Office: (985) 400-5444 x305
24 Hr: (281) 880-5000
Fax: (281) 880-5005
www.responsegroupinc.com
Sign up for our Email Newsletter

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/16/2019 1:22:47 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Report
Attachments: 20190416_0700_Benzene_Report.pdf; 20190416_0800_Benzene_Report.pdf

All,

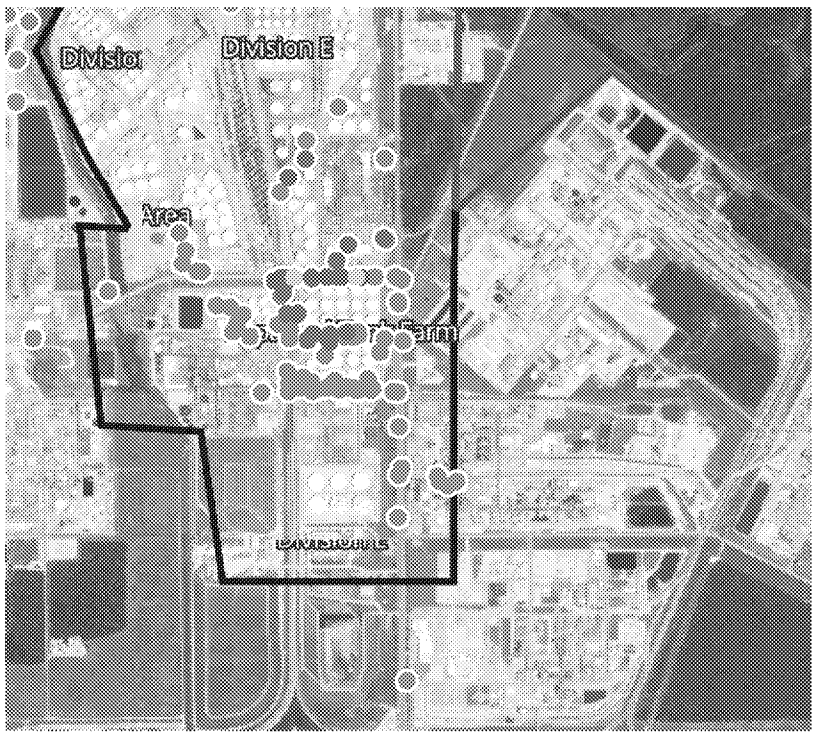
Please see the attached documents of benzene readings between 0600-0800. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 6:00:00 AM to 4/16/2019 7:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 06:01:12	0.1200 ppm
	4/16/2019 06:09:05	0.0600 ppm
	4/16/2019 06:03:47	0.1900 ppm
	4/16/2019 06:06:26	0.0400 ppm
	4/16/2019 06:12:03	0.2600 ppm
	4/16/2019 06:10:16	0.1600 ppm
	4/16/2019 06:14:03	0.5500 ppm
	4/16/2019 06:22:57	0.2100 ppm
	4/16/2019 06:26:04	0.0700 ppm
	4/16/2019 06:28:27	0.3300 ppm
	4/16/2019 06:31:55	0.0900 ppm
	4/16/2019 06:33:14	0.1400 ppm
	4/16/2019 06:35:34	0.0500 ppm
	4/16/2019 06:36:57	0.3700 ppm
	4/16/2019 06:38:01	0.0800 ppm
	4/16/2019 06:39:12	0.1900 ppm
	4/16/2019 06:41:22	0.0500 ppm
	4/16/2019 06:43:51	0.0300 ppm
	4/16/2019 06:43:33	0.1300 ppm
	4/16/2019 06:41:15	0.1300 ppm
	4/16/2019 06:49:13	0.0800 ppm
	4/16/2019 06:55:06	0.0200 ppm
	4/16/2019 06:57:07	0.0500 ppm
	4/16/2019 06:58:12	0.3400 ppm
	4/16/2019 06:55:50	0.0400 ppm
Impacted Tank Farm	4/16/2019 06:41:50	0.0500 ppm
	4/16/2019 06:46:16	0.0300 ppm
	4/16/2019 06:46:50	0.0900 ppm
	4/16/2019 06:51:44	0.0700 ppm
	4/16/2019 06:53:35	0.2100 ppm
	4/16/2019 06:55:48	0.0900 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 6:00:00 AM to 4/16/2019 7:00:00 AM

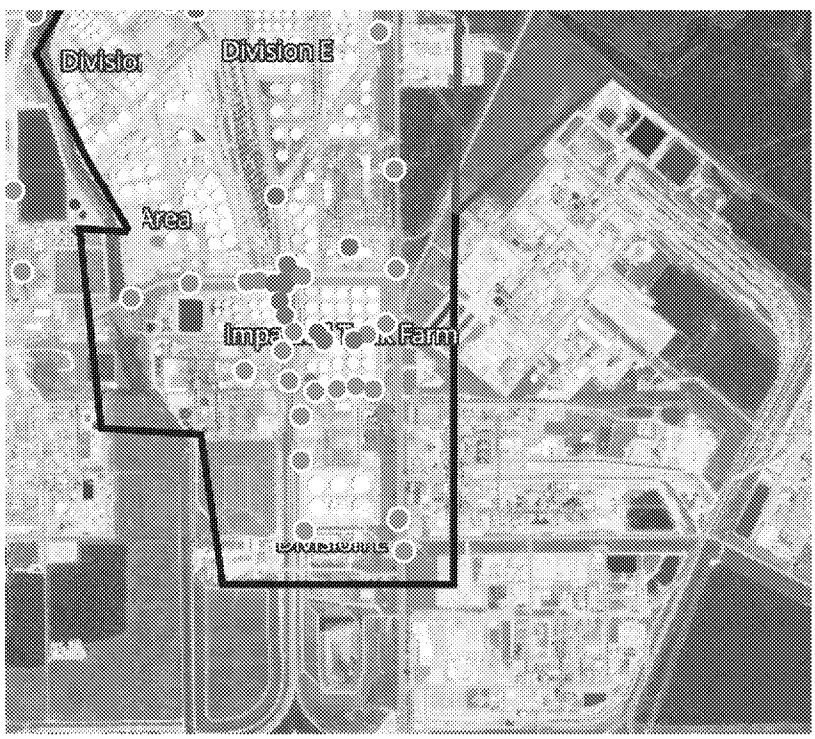
Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/16/2019 7:00:00 AM to 4/16/2019 8:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/16/2019 07:05:47	0.0800 ppm
	4/16/2019 07:03:55	0.0300 ppm
	4/16/2019 07:07:53	0.1000 ppm
	4/16/2019 07:39:10	0.1400 ppm
	4/16/2019 07:31:51	0.0800 ppm
	4/16/2019 07:38:13	0.0600 ppm
	4/16/2019 07:49:26	0.4000 ppm
	4/16/2019 07:43:49	0.0700 ppm
	4/16/2019 07:52:39	0.0300 ppm
	4/16/2019 07:49:07	0.0300 ppm
	4/16/2019 07:54:11	0.4000 ppm
Impacted Tank Farm	4/16/2019 07:35:26	0.0400 ppm
	4/16/2019 07:46:02	0.0600 ppm
	4/16/2019 07:51:08	0.0300 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/16/2019 7:00:00 AM to 4/16/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/16/2019 1:32:11 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2000 Benzene Update
Attachments: 20190415_2000_benzene_report.pdf; 20190415_1900_benzene_report.pdf

All,

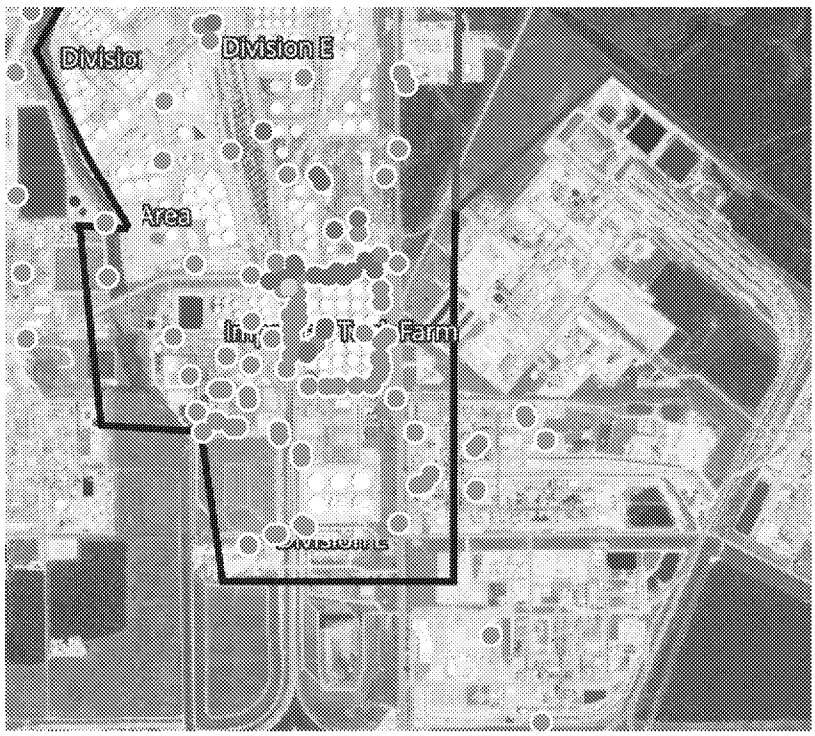
Attached are the benzene reports from 1800 – 2000.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 6:00:00 PM to 4/15/2019 7:00:00 PM



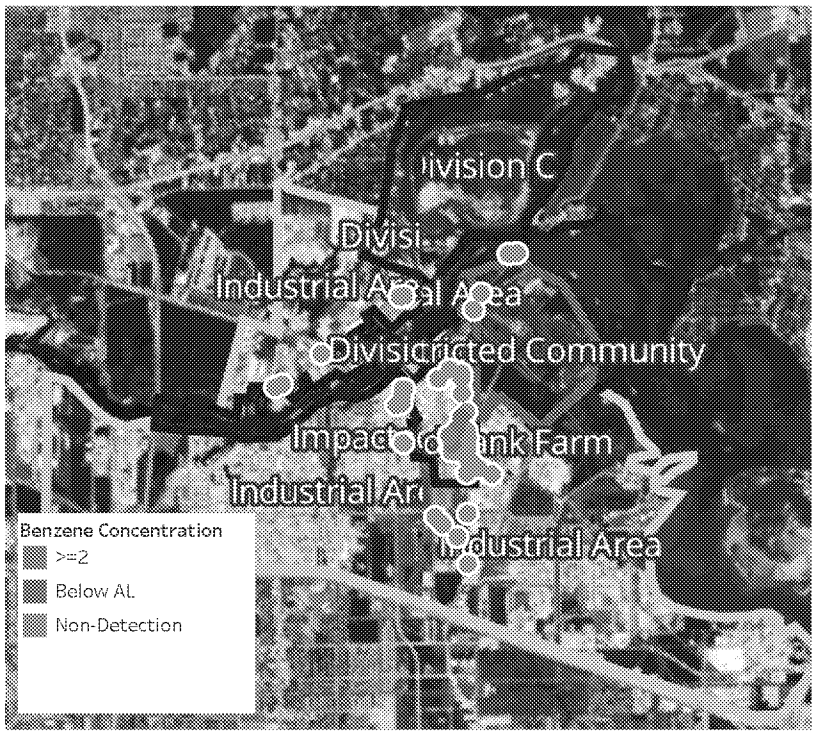
Recent Benzene Detections

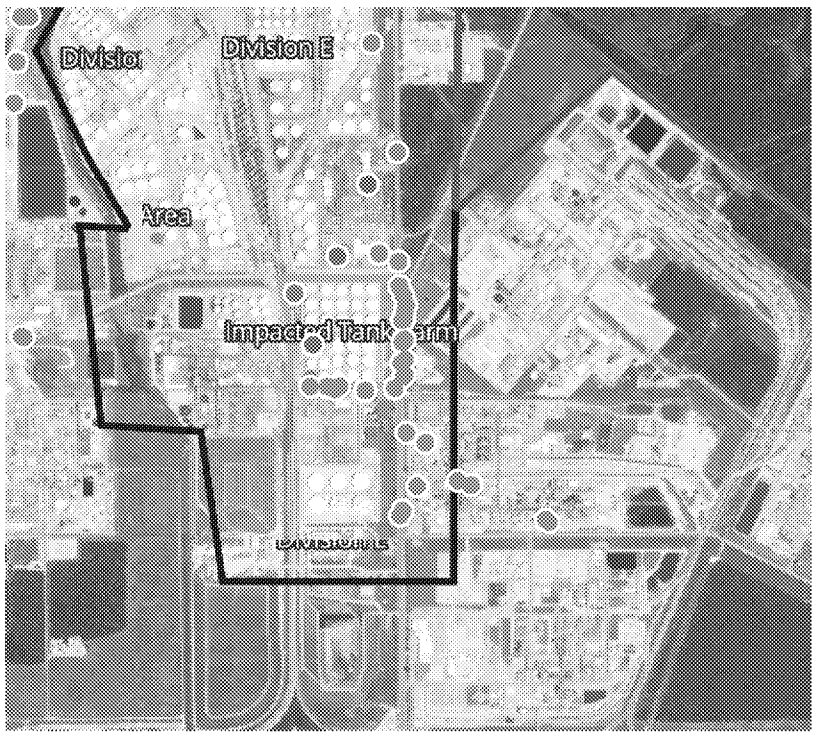
Location Category	Reading Date	Concentration
Division E	4/15/2019 18:02:39	0.0700 ppm
	4/15/2019 18:01:47	0.2200 ppm
	4/15/2019 18:02:52	0.2000 ppm
	4/15/2019 18:04:33	0.3200 ppm
	4/15/2019 18:14:46	0.3400 ppm
	4/15/2019 18:04:30	0.3000 ppm
	4/15/2019 18:25:09	0.3400 ppm
	4/15/2019 18:29:44	0.3900 ppm
	4/15/2019 18:31:58	0.4000 ppm
	4/15/2019 18:26:39	0.0200 ppm
	4/15/2019 18:35:13	0.0200 ppm
	4/15/2019 18:40:13	0.0300 ppm
	4/15/2019 18:44:09	0.0700 ppm
	4/15/2019 18:44:04	0.2400 ppm
	4/15/2019 18:46:31	0.0700 ppm
	4/15/2019 18:45:02	0.0500 ppm
	4/15/2019 18:51:41	0.1400 ppm
	4/15/2019 18:32:16	0.1100 ppm
	4/15/2019 18:35:27	0.4200 ppm
	4/15/2019 18:34:18	0.6800 ppm
	4/15/2019 18:28:28	0.1000 ppm
Impacted Tank Farm	4/15/2019 18:31:00	0.0400 ppm
	4/15/2019 18:52:54	0.1000 ppm
	4/15/2019 18:51:35	0.0300 ppm
	4/15/2019 18:59:37	0.0600 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 7:00:00 PM to 4/15/2019 8:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 19:41:50	0.240 ppm
	4/15/2019 19:38:52	0.240 ppm
Impacted Tank Farm	4/15/2019 19:00:30	2.900 ppm
	4/15/2019 19:14:16	0.040 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 7:00:00 PM to 4/15/2019 8:00:00 PM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 19:00:30	Impacted Tank Farm	29.7527750,-95.0930340	https://www.google.com/maps/search/?api=1&query=29.7527750,-95.0930340	2.800 ppm

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/15/2019 11:07:26 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Report
Attachments: 20190415_1700_Benzene_Report.pdf; 20190415_1800_Benzene_Report.pdf

All,

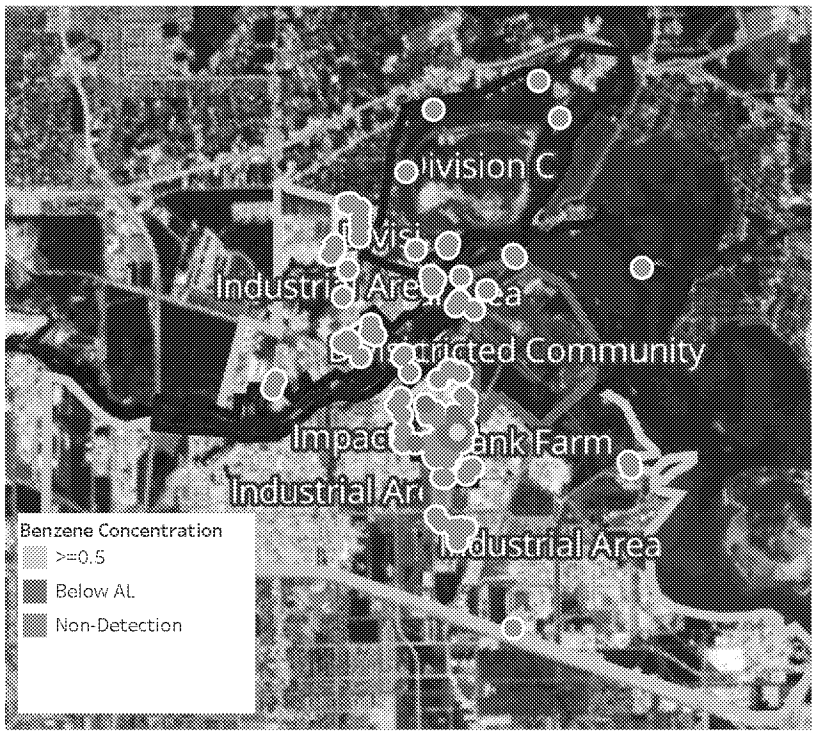
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

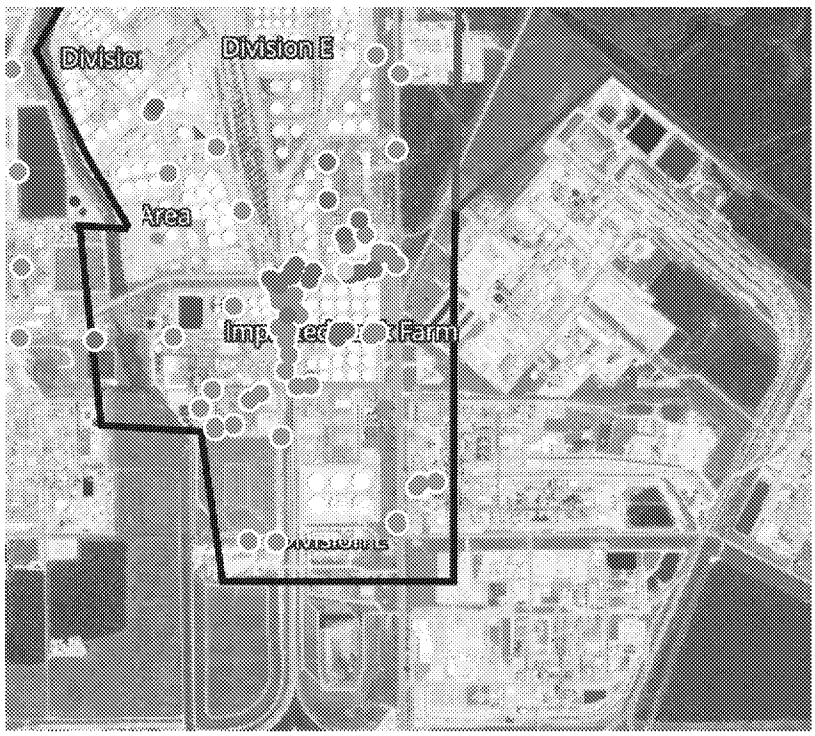
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 4:00:00 PM to 4/15/2019 5:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 16:05:48	0.1300 ppm
	4/15/2019 16:10:42	0.1000 ppm
	4/15/2019 16:11:23	0.1900 ppm
	4/15/2019 16:16:07	0.1000 ppm
	4/15/2019 16:17:50	0.0400 ppm
	4/15/2019 16:20:48	0.0700 ppm
	4/15/2019 16:25:26	0.1800 ppm
	4/15/2019 16:28:40	0.1700 ppm
	4/15/2019 16:28:14	0.1000 ppm
	4/15/2019 16:30:12	0.2500 ppm
	4/15/2019 16:30:16	0.0800 ppm
	4/15/2019 16:35:04	0.0600 ppm
	4/15/2019 16:36:12	0.0900 ppm
	4/15/2019 16:00:36	0.1600 ppm
	4/15/2019 16:09:29	0.0200 ppm
	4/15/2019 16:48:27	0.2500 ppm
	4/15/2019 16:41:35	0.2600 ppm
	4/15/2019 16:58:39	0.3300 ppm
	4/15/2019 16:53:43	0.2500 ppm
	4/15/2019 16:58:03	0.7000 ppm
Impacted Tank Farm	4/15/2019 16:09:25	0.1100 ppm
	4/15/2019 16:31:16	0.0800 ppm
	4/15/2019 16:36:21	0.0900 ppm
	4/15/2019 16:50:29	0.0400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 4:00:00 PM to 4/15/2019 5:00:00 PM

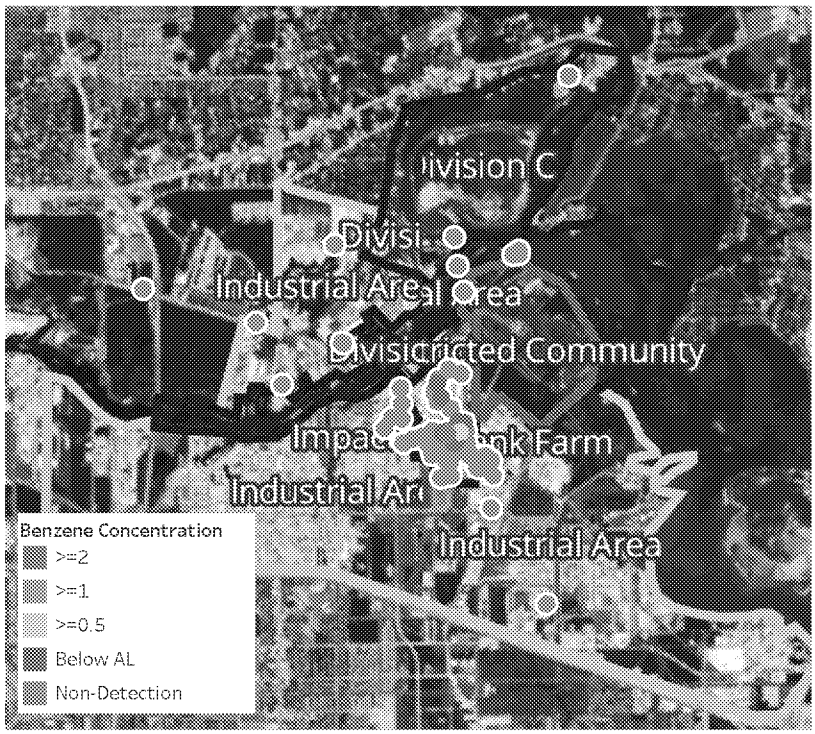
Benzene Action Level Concentration (ppm)

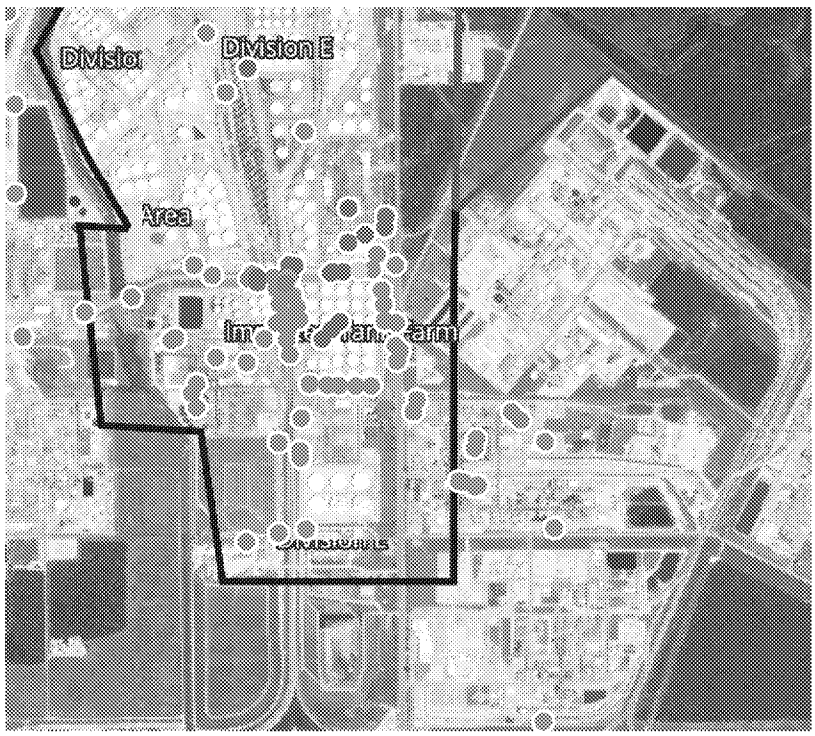
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 5:00:00 PM to 4/15/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 17:07:07	0.060 ppm
	4/15/2019 17:07:29	0.260 ppm
	4/15/2019 17:09:44	2.630 ppm
	4/15/2019 17:13:07	0.050 ppm
	4/15/2019 17:24:17	0.060 ppm
	4/15/2019 17:31:30	0.200 ppm
	4/15/2019 17:31:50	0.180 ppm
	4/15/2019 17:35:01	0.060 ppm
	4/15/2019 17:40:31	0.060 ppm
	4/15/2019 17:44:42	1.050 ppm
	4/15/2019 17:46:37	0.160 ppm
	4/15/2019 17:36:56	0.360 ppm
	4/15/2019 17:31:52	0.630 ppm
	4/15/2019 17:44:21	0.060 ppm
	4/15/2019 17:48:35	0.030 ppm
	4/15/2019 17:47:43	0.020 ppm
	4/15/2019 17:11:48	0.040 ppm
	4/15/2019 17:52:37	0.070 ppm
Impacted Tank Farm	4/15/2019 17:14:35	0.090 ppm
	4/15/2019 17:28:17	0.050 ppm
	4/15/2019 17:42:48	0.050 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 5:00:00 PM to 4/15/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 17:44:42	Division E	29.7531860, -95.0932550	https://www.google.com/maps/search/?api=1&query=29.7531860,-95.0932550	1.000 ppm
4/15/2019 17:09:44	Division E	29.7530360, -95.0933130	https://www.google.com/maps/search/?api=1&query=29.7530360,-95.0933130	2.620 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 3:41:23 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Spall, Amy [amy.spall@westonsolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2200 Benzene Update
Attachments: 20190414_2100_benzene_report.pdf; 20190414_2200_benzene_report.pdf

All,

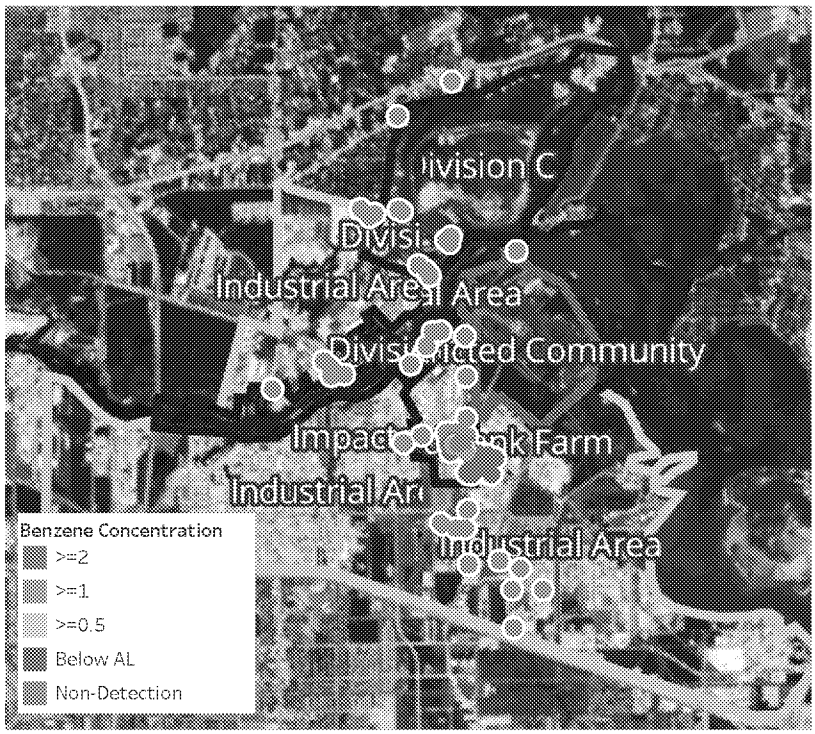
Attached are the benzene reports from 2000 – 2200.

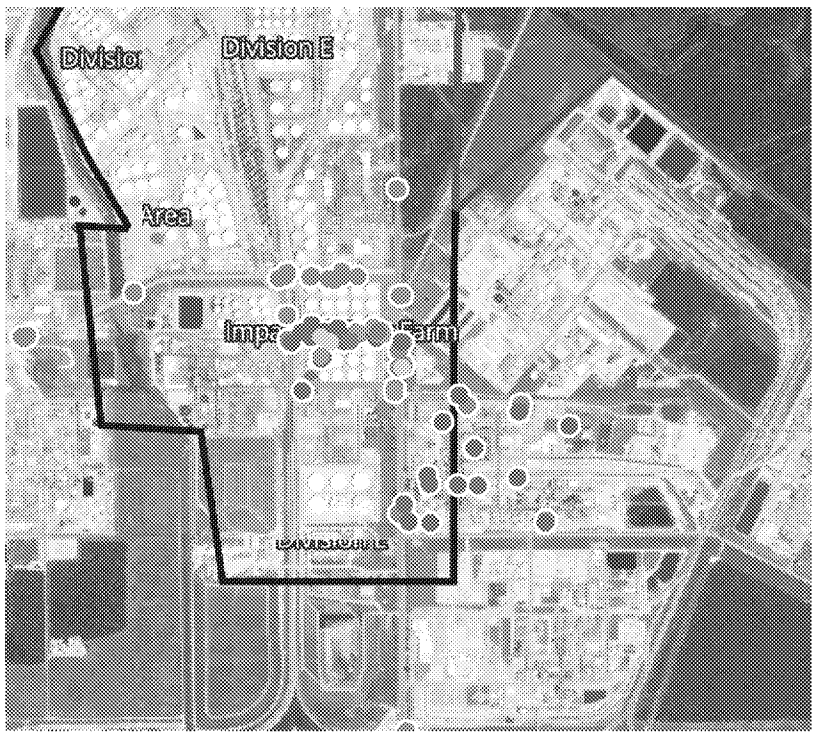
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 8:00:00 PM to 4/14/2019 9:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 20:06:50	0.100 ppm
	4/14/2019 20:10:08	0.360 ppm
	4/14/2019 20:12:26	0.170 ppm
	4/14/2019 20:04:49	0.510 ppm
	4/14/2019 20:16:50	0.290 ppm
	4/14/2019 20:25:05	0.120 ppm
	4/14/2019 20:57:22	0.310 ppm
	4/14/2019 20:59:12	0.440 ppm
	4/14/2019 20:50:29	0.400 ppm
Impacted Tank Farm	4/14/2019 20:10:07	0.110 ppm
	4/14/2019 20:12:35	0.230 ppm
	4/14/2019 20:15:40	0.100 ppm
	4/14/2019 20:18:10	0.170 ppm
	4/14/2019 20:21:18	0.130 ppm
	4/14/2019 20:23:55	0.170 ppm
	4/14/2019 20:23:58	0.060 ppm
	4/14/2019 20:27:45	0.090 ppm
	4/14/2019 20:21:12	0.060 ppm
	4/14/2019 20:15:33	0.090 ppm
	4/14/2019 20:28:33	0.070 ppm
	4/14/2019 20:34:21	3.080 ppm
	4/14/2019 20:26:49	0.200 ppm
	4/14/2019 20:35:40	1.820 ppm
	4/14/2019 20:33:25	1.720 ppm
	4/14/2019 20:31:16	1.570 ppm
	4/14/2019 20:42:25	0.030 ppm
	4/14/2019 20:32:34	1.570 ppm
	4/14/2019 20:35:54	1.640 ppm
	4/14/2019 20:46:17	3.000 ppm
	4/14/2019 20:54:52	0.400 ppm
	4/14/2019 20:51:09	1.150 ppm
	4/14/2019 20:49:36	0.920 ppm
	4/14/2019 20:46:24	1.360 ppm
	4/14/2019 20:55:10	0.290 ppm
	4/14/2019 20:50:15	0.840 ppm
Industrial Area	4/14/2019 20:54:21	0.070 ppm
	4/14/2019 20:41:47	0.120 ppm
	4/14/2019 20:57:54	0.020 ppm
	4/14/2019 20:16:24	0.040 ppm
	4/14/2019 20:28:08	0.050 ppm
	4/14/2019 20:19:53	0.040 ppm
	4/14/2019 20:21:30	0.050 ppm
	4/14/2019 20:37:49	0.100 ppm
	4/14/2019 20:13:24	0.020 ppm
	4/14/2019 20:25:17	0.070 ppm
	4/14/2019 20:49:25	0.020 ppm
	4/14/2019 20:30:45	0.030 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 8:00:00 PM to 4/14/2019 9:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

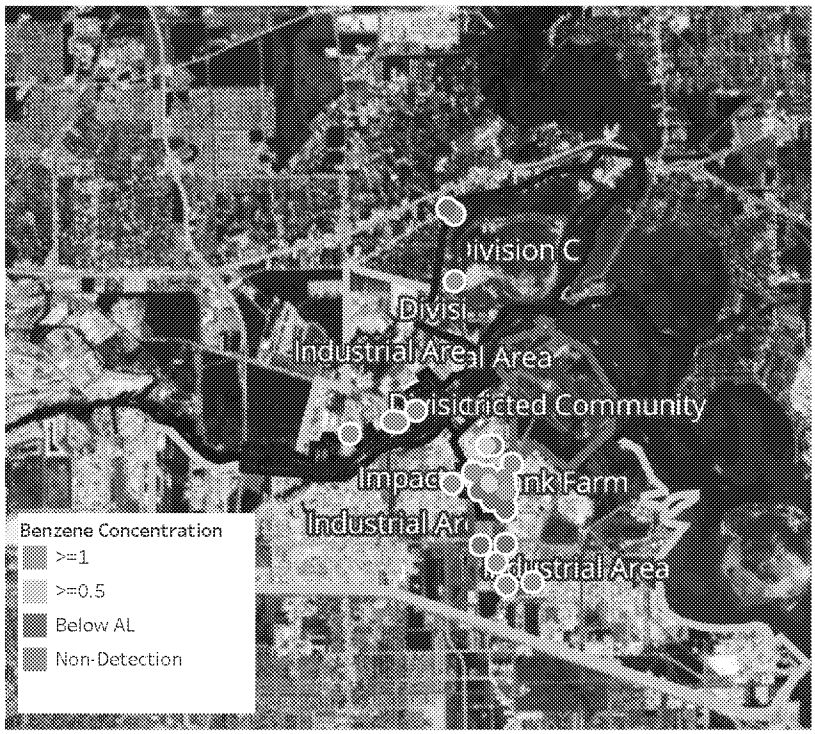
PRELIMINARY

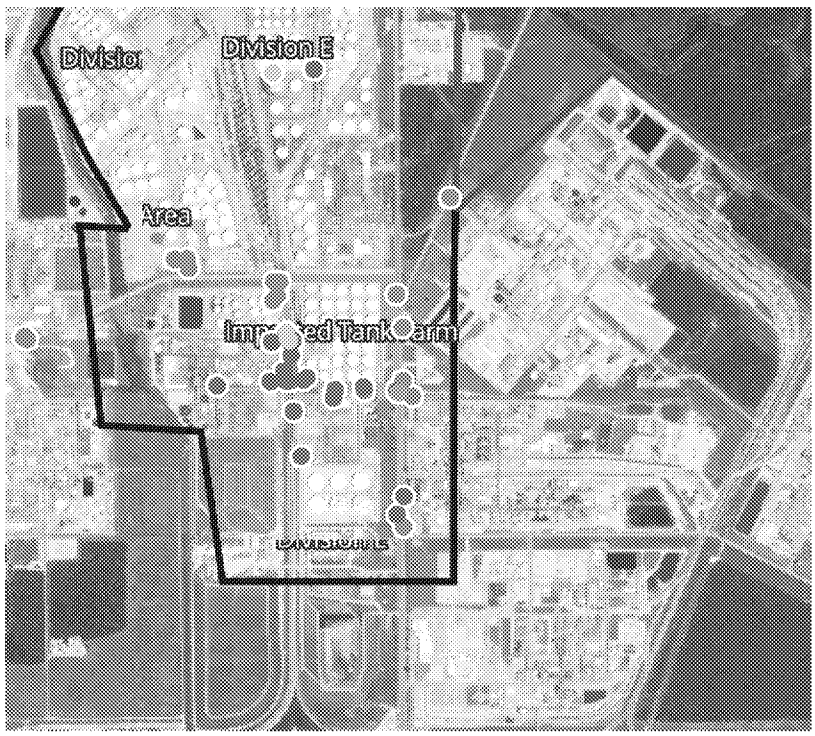
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 20:51:09	Impacted Tank Farm	29.7511150,-95.0922280	https://www.google.com/maps/search/?api=1&query=29.7511150,-95.0922280	1.150 ppm
4/14/2019 20:46:24	Impacted Tank Farm	29.7317390,-95.0911270	https://www.google.com/maps/search/?api=1&query=29.7317390,-95.0911270	1.360 ppm
4/14/2019 20:46:17	Impacted Tank Farm	29.7315110,-95.0913530	https://www.google.com/maps/search/?api=1&query=29.7315110,-95.0913530	3.000 ppm
4/14/2019 20:35:54	Impacted Tank Farm	29.7317040,-95.0904950	https://www.google.com/maps/search/?api=1&query=29.7317040,-95.0904950	1.640 ppm
4/14/2019 20:35:40	Impacted Tank Farm	29.7317680,-95.0905410	https://www.google.com/maps/search/?api=1&query=29.7317680,-95.0905410	1.820 ppm
4/14/2019 20:34:21	Impacted Tank Farm	29.7317670,-95.0904980	https://www.google.com/maps/search/?api=1&query=29.7317670,-95.0904980	3.080 ppm
4/14/2019 20:33:25	Impacted Tank Farm	29.7316680,-95.0906170	https://www.google.com/maps/search/?api=1&query=29.7316680,-95.0906170	1.720 ppm
4/14/2019 20:32:34	Impacted Tank Farm	29.7317750,-95.0903640	https://www.google.com/maps/search/?api=1&query=29.7317750,-95.0903640	1.570 ppm
4/14/2019 20:31:16	Impacted Tank Farm	29.7301560,-95.0899810	https://www.google.com/maps/search/?api=1&query=29.7301560,-95.0899810	1.570 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 9:00:00 PM to 4/14/2019 10:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/14/2019 21:32:50	0.050 ppm
Division E	4/14/2019 21:00:02	0.170 ppm
	4/14/2019 21:02:39	0.200 ppm
	4/14/2019 21:01:34	0.160 ppm
	4/14/2019 21:06:21	0.100 ppm
	4/14/2019 21:08:19	0.210 ppm
	4/14/2019 21:09:45	0.230 ppm
	4/14/2019 21:10:24	0.050 ppm
	4/14/2019 21:05:17	0.125 ppm
	4/14/2019 21:11:57	0.275 ppm
	4/14/2019 21:09:17	0.275 ppm
	4/14/2019 21:14:17	0.050 ppm
	4/14/2019 21:14:51	0.400 ppm
	4/14/2019 21:32:04	0.150 ppm
	4/14/2019 21:29:06	0.170 ppm
	4/14/2019 21:18:16	0.090 ppm
	4/14/2019 21:26:05	0.520 ppm
	4/14/2019 21:30:39	0.010 ppm
	4/14/2019 21:26:09	0.640 ppm
	4/14/2019 21:32:21	0.880 ppm
	4/14/2019 21:38:44	0.200 ppm
	4/14/2019 21:29:29	0.120 ppm
	4/14/2019 21:35:12	0.890 ppm
	4/14/2019 21:30:22	1.920 ppm
	4/14/2019 21:42:54	0.260 ppm
	4/14/2019 21:28:04	0.525 ppm
	4/14/2019 21:49:16	0.175 ppm
	4/14/2019 21:30:19	0.150 ppm
	4/14/2019 21:41:19	0.200 ppm
	4/14/2019 21:49:20	0.350 ppm
	4/14/2019 21:49:03	0.400 ppm
	4/14/2019 21:31:05	0.020 ppm
	4/14/2019 21:32:07	0.440 ppm
	4/14/2019 21:52:17	0.180 ppm
	4/14/2019 21:51:23	0.080 ppm
	4/14/2019 21:39:39	0.250 ppm
	4/14/2019 21:59:08	0.250 ppm
Industrial Area	4/14/2019 21:31:15	0.080 ppm
	4/14/2019 21:59:56	0.180 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 9:00:00 PM to 4/14/2019 10:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 21:30:22	Division E	29.7501590,-95.0898500	https://www.google.com/maps/search/?api=1&query=29.7501590,-95.0898500	1.920 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 1:21:28 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2000 Benzene Update
Attachments: 20190414_2000_benzene_report.pdf; 20190414_1900_benzene_report.pdf

All,

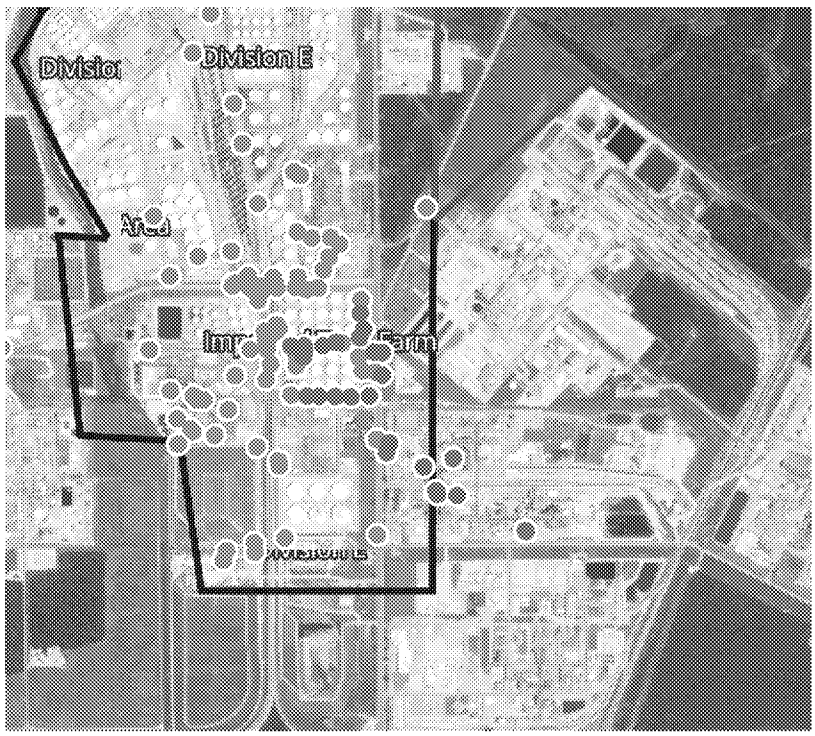
Attached are the benzene report from 1800 – 2000.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 6:00:00 PM to 4/14/2019 7:00:00 PM



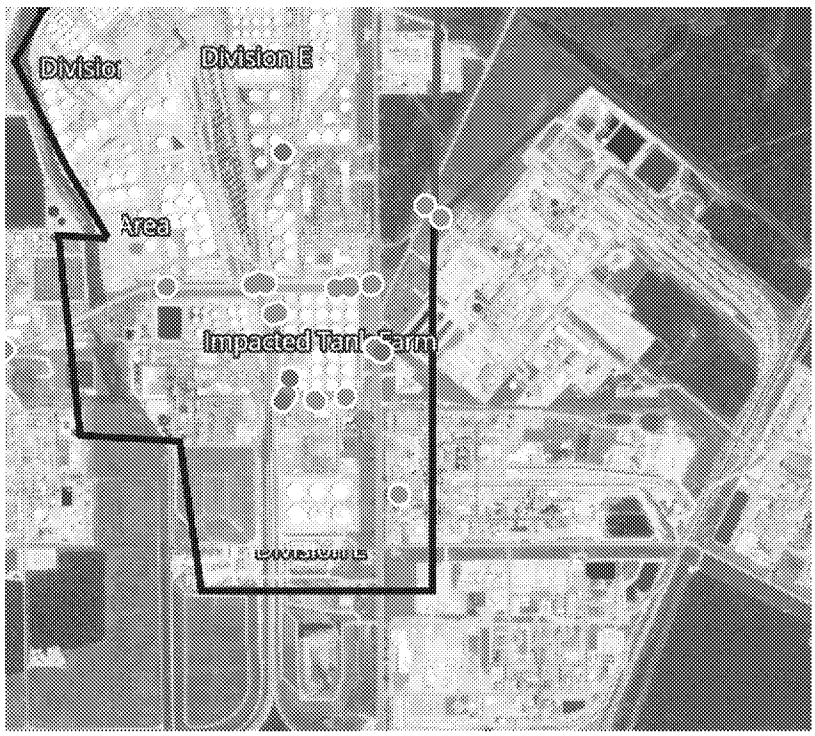
Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 18:23:37	0.1200 ppm
	4/14/2019 18:29:57	0.1600 ppm
	4/14/2019 18:32:28	0.0900 ppm
	4/14/2019 18:36:22	0.0200 ppm
	4/14/2019 18:42:52	0.0400 ppm
	4/14/2019 18:56:28	0.2000 ppm
	4/14/2019 18:56:05	0.0900 ppm
	4/14/2019 18:23:38	0.0900 ppm
Impacted Tank Farm	4/14/2019 18:02:40	0.0500 ppm
	4/14/2019 18:06:21	0.0300 ppm
	4/14/2019 18:10:17	0.1800 ppm
	4/14/2019 18:31:56	0.0800 ppm
	4/14/2019 18:35:08	0.1000 ppm
	4/14/2019 18:32:53	0.2700 ppm
	4/14/2019 18:29:01	0.4400 ppm
	4/14/2019 18:37:35	0.1400 ppm
	4/14/2019 18:40:17	0.0400 ppm
	4/14/2019 18:43:43	0.0200 ppm
Industrial Area	4/14/2019 18:21:28	0.0900 ppm
	4/14/2019 18:19:35	0.0300 ppm
	4/14/2019 18:22:59	0.0400 ppm
	4/14/2019 18:26:21	0.0200 ppm
	4/14/2019 18:30:33	0.0500 ppm
	4/14/2019 18:46:51	0.0200 ppm
	4/14/2019 18:35:37	0.0300 ppm
	4/14/2019 18:31:55	0.0200 ppm
	4/14/2019 18:57:35	0.0700 ppm
	4/14/2019 18:58:44	0.0300 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 7:00:00 PM to 4/14/2019 8:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 19:33:53	0.2000 ppm
	4/14/2019 19:41:55	0.0200 ppm
	4/14/2019 19:44:32	0.0300 ppm
	4/14/2019 19:41:32	0.2750 ppm
Impacted Tank Farm	4/14/2019 19:10:49	0.0500 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/14/2019 5:06:37 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Reports
Attachments: 20190414_1100_Benzene_Report.pdf; 20190414_1200_Benzene_Report.pdf

All,

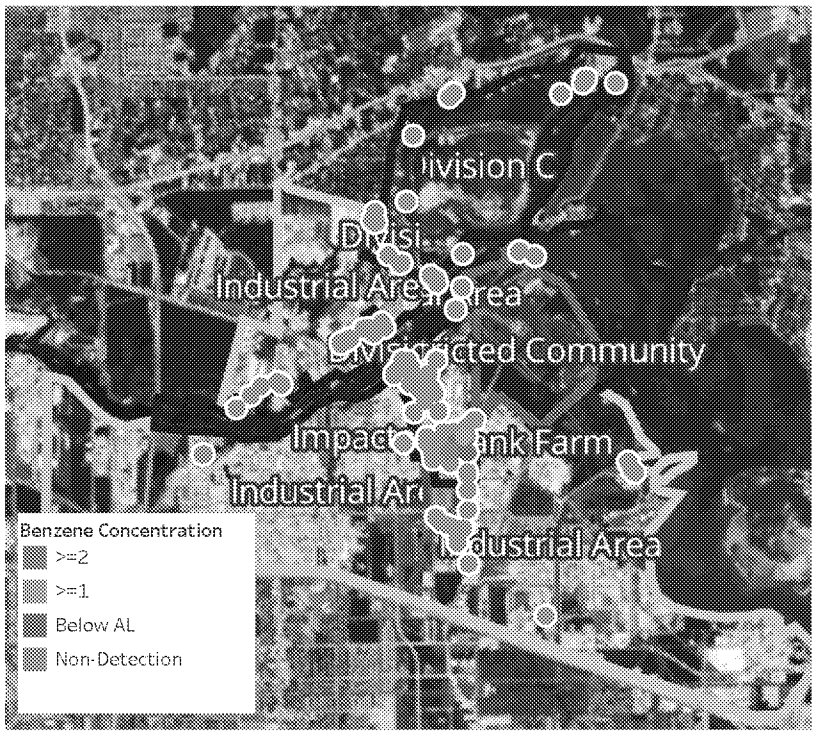
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

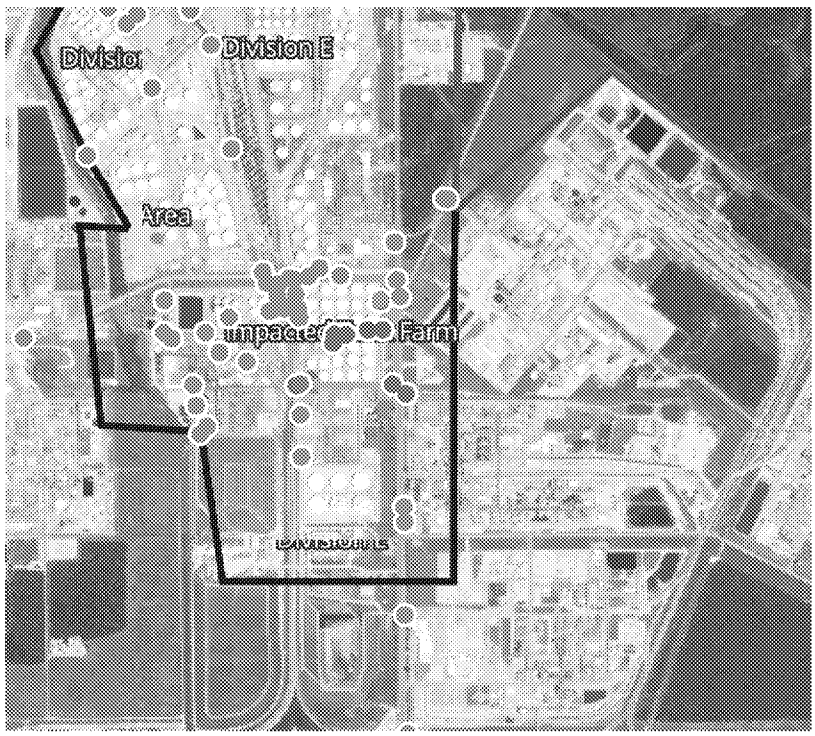
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 10:00:00 AM to 4/14/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 10:05:02	0.190 ppm
	4/14/2019 10:09:17	0.120 ppm
	4/14/2019 10:12:25	2.690 ppm
	4/14/2019 10:10:43	0.090 ppm
	4/14/2019 10:43:43	0.130 ppm
Impacted Tank Farm	4/14/2019 10:03:55	0.110 ppm
	4/14/2019 10:04:45	0.340 ppm
	4/14/2019 10:12:13	0.340 ppm
	4/14/2019 10:23:25	0.090 ppm
	4/14/2019 10:25:47	0.110 ppm
	4/14/2019 10:26:05	0.390 ppm
	4/14/2019 10:45:35	1.210 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 10:00:00 AM to 4/14/2019 11:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 10:45:35	Impacted Tank Farm	29.7526060,-95.0904210	https://www.google.com/maps/search/?api=1&query=29.7526060,-95.0904210	1.030 ppm
4/14/2019 10:12:25	Division E	29.7303760,-95.0926610	https://www.google.com/maps/search/?api=1&query=29.7303760,-95.0926610	2.690 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 11:00:00 AM to 4/14/2019 12:00:00 PM

Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 11:09:50	0.0700 ppm
	4/14/2019 11:11:40	0.0200 ppm
	4/14/2019 11:14:20	0.0200 ppm
	4/14/2019 11:15:40	0.0700 ppm
	4/14/2019 11:41:57	0.0400 ppm
	4/14/2019 11:53:20	0.0400 ppm
Impacted Tank Farm	4/14/2019 11:03:14	0.0800 ppm
	4/14/2019 11:07:44	0.0600 ppm
	4/14/2019 11:09:32	0.3800 ppm
	4/14/2019 11:24:03	0.0600 ppm
	4/14/2019 11:22:35	0.4400 ppm
	4/14/2019 11:37:51	0.1100 ppm
	4/14/2019 11:54:34	0.0800 ppm
Industrial Area	4/14/2019 11:17:29	0.0300 ppm
	4/14/2019 11:20:35	0.0200 ppm
	4/14/2019 11:28:20	0.0400 ppm
	4/14/2019 11:29:48	0.0300 ppm
	4/14/2019 11:33:01	0.0400 ppm
	4/14/2019 11:34:25	0.0400 ppm
	4/14/2019 11:51:12	0.0100 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 11:00:00 AM to 4/14/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/15/2019 3:10:48 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Report
Attachments: 20190415_1000_Benzene_Report.pdf; 20190415_0900_Benzene_Report.pdf

All,

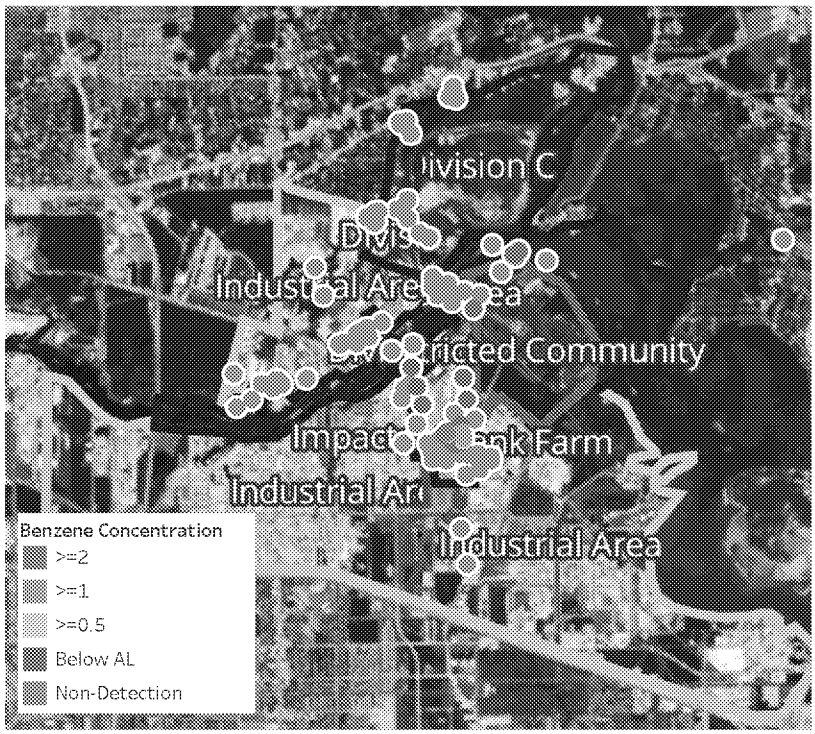
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

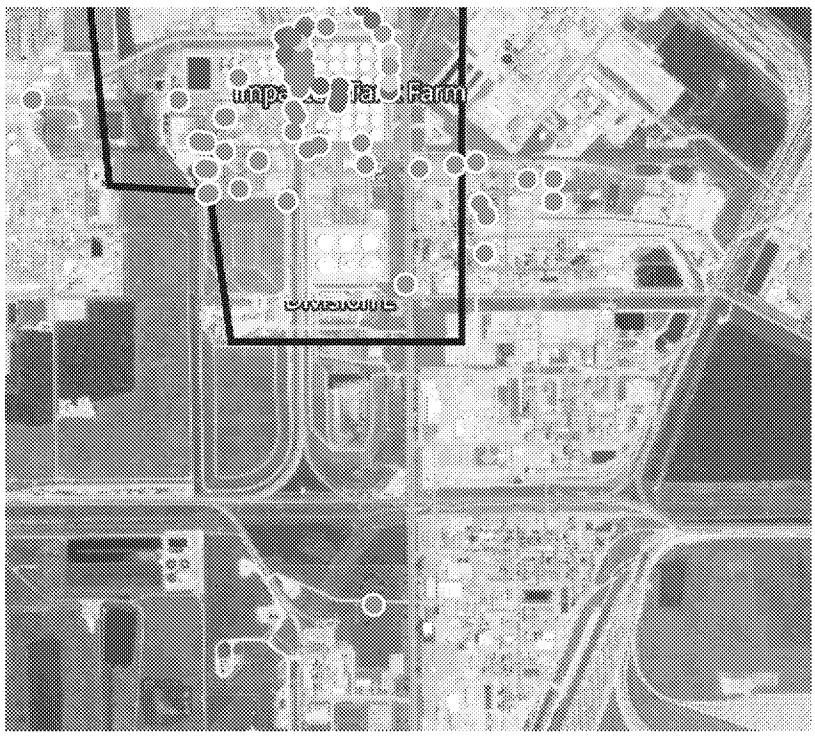
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 8:00:00 AM to 4/15/2019 9:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/15/2019 08:18:37	0.150 ppm
Division E	4/15/2019 08:03:13	0.040 ppm
	4/15/2019 08:06:17	0.020 ppm
	4/15/2019 08:00:11	0.150 ppm
	4/15/2019 08:11:23	0.300 ppm
	4/15/2019 08:14:15	1.775 ppm
	4/15/2019 08:24:14	0.180 ppm
	4/15/2019 08:25:07	0.080 ppm
	4/15/2019 08:25:51	0.150 ppm
	4/15/2019 08:40:42	0.020 ppm
	4/15/2019 08:43:45	0.410 ppm
	4/15/2019 08:43:08	3.650 ppm
	4/15/2019 08:36:41	0.690 ppm
	4/15/2019 08:44:53	0.080 ppm
	4/15/2019 08:41:49	0.190 ppm
	4/15/2019 08:52:10	0.030 ppm
	4/15/2019 08:45:46	0.050 ppm
Impacted Tank Farm	4/15/2019 08:01:01	0.040 ppm
	4/15/2019 08:05:16	0.060 ppm
	4/15/2019 08:01:58	0.590 ppm
	4/15/2019 08:13:46	0.040 ppm
	4/15/2019 08:16:17	0.180 ppm
	4/15/2019 08:31:21	0.050 ppm
	4/15/2019 08:41:31	0.930 ppm
	4/15/2019 08:24:55	1.480 ppm
Restricted Community	4/15/2019 08:04:45	0.030 ppm
	4/15/2019 08:10:25	0.040 ppm
	4/15/2019 08:17:09	0.050 ppm
	4/15/2019 08:29:58	0.040 ppm
	4/15/2019 08:37:14	0.030 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 8:00:00 AM to 4/15/2019 9:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

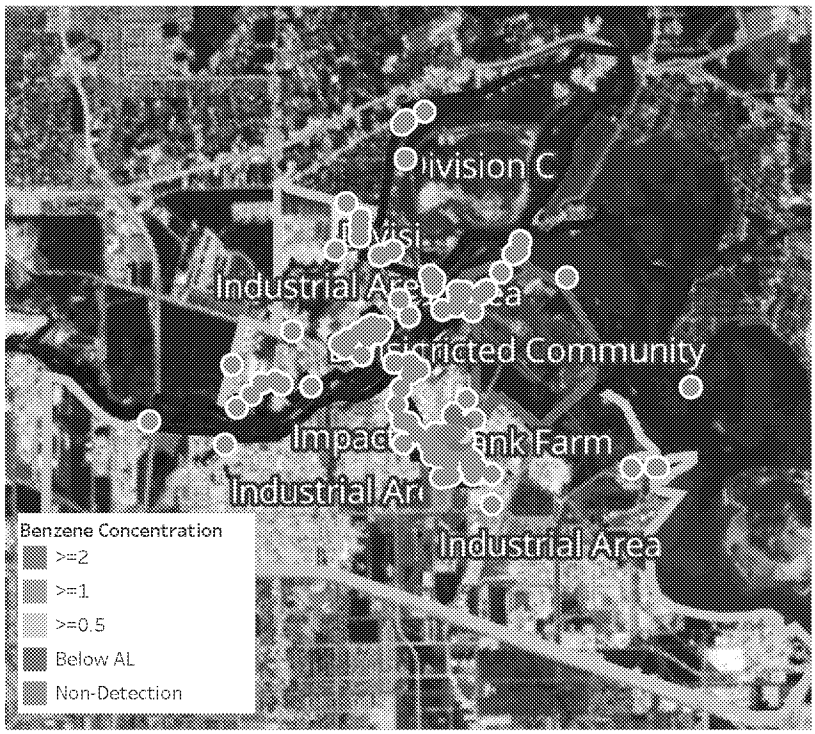
Recent Benzene Detections Greater than 1.00 ppm

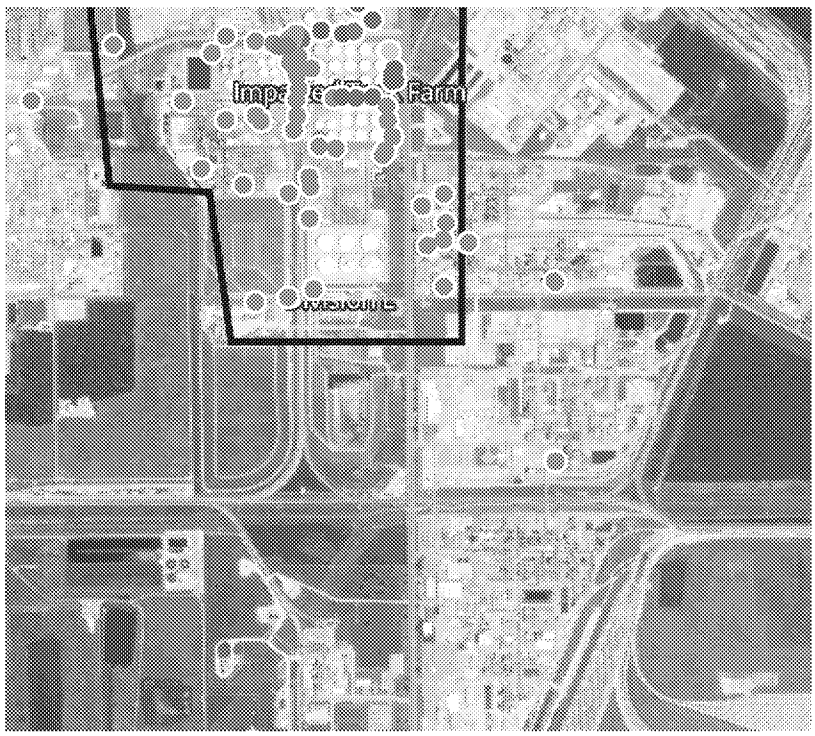
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 08:43:08	Division E	29.7321950,-95.0933600	https://www.google.com/maps/search/?api=1&query=29.7321950,-95.0933600	3.600 ppm
4/15/2019 08:24:55	Impacted Tank Farm	29.7324620,-95.0903890	https://www.google.com/maps/search/?api=1&query=29.7324620,-95.0903890	1.480 ppm
4/15/2019 08:14:15	Division E	29.7352080,-95.0906050	https://www.google.com/maps/search/?api=1&query=29.7352080,-95.0906050	1.775 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 9:00:00 AM to 4/15/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 09:02:46	1.690 ppm
	4/15/2019 09:04:25	0.030 ppm
	4/15/2019 09:07:32	2.190 ppm
	4/15/2019 09:09:16	0.140 ppm
	4/15/2019 09:09:10	0.260 ppm
	4/15/2019 09:16:06	0.200 ppm
	4/15/2019 09:05:54	3.700 ppm
	4/15/2019 09:29:06	0.310 ppm
	4/15/2019 09:29:16	0.100 ppm
	4/15/2019 09:36:53	0.080 ppm
	4/15/2019 09:39:36	2.900 ppm
	4/15/2019 09:45:44	1.650 ppm
	4/15/2019 09:48:38	1.190 ppm
	4/15/2019 09:45:10	0.160 ppm
	4/15/2019 09:46:47	0.540 ppm
Impacted Tank Farm	4/15/2019 09:41:33	0.300 ppm
	4/15/2019 09:43:28	0.020 ppm
	4/15/2019 09:46:41	0.050 ppm
	4/15/2019 09:36:07	0.160 ppm
	4/15/2019 09:45:29	0.100 ppm
	4/15/2019 09:29:54	0.580 ppm
	4/15/2019 09:39:55	0.320 ppm
	4/15/2019 09:48:25	0.270 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 9:00:00 AM to 4/15/2019 10:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 09:48:38	Division E	29.7331680,-95.0934900	https://www.google.com/maps/search/?api=1&query=29.7331680,-95.0934900	1.190 ppm
4/15/2019 09:45:44	Division E	29.7330640,-95.0934070	https://www.google.com/maps/search/?api=1&query=29.7330640,-95.0934070	1.690 ppm
4/15/2019 09:39:36	Division E	29.7329750,-95.0937570	https://www.google.com/maps/search/?api=1&query=29.7329750,-95.0937570	2.900 ppm
4/15/2019 09:07:32	Division E	29.7330040,-95.0935070	https://www.google.com/maps/search/?api=1&query=29.7330040,-95.0935070	2.190 ppm
4/15/2019 09:05:54	Division E	29.7333790,-95.0914780	https://www.google.com/maps/search/?api=1&query=29.7333790,-95.0914780	3.700 ppm
4/15/2019 09:02:46	Division E	29.7325240,-95.0932460	https://www.google.com/maps/search/?api=1&query=29.7325240,-95.0932460	1.690 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/15/2019 9:12:30 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Report
Attachments: 20190415_1500_Benzene_Report.pdf; 20190415_1600_Benzene_Report.pdf

All,

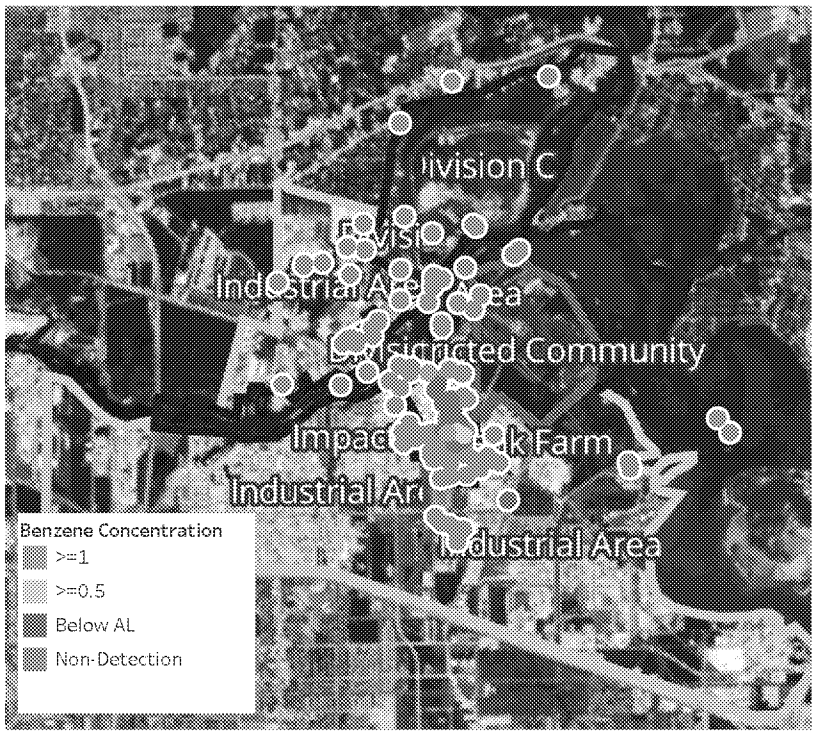
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

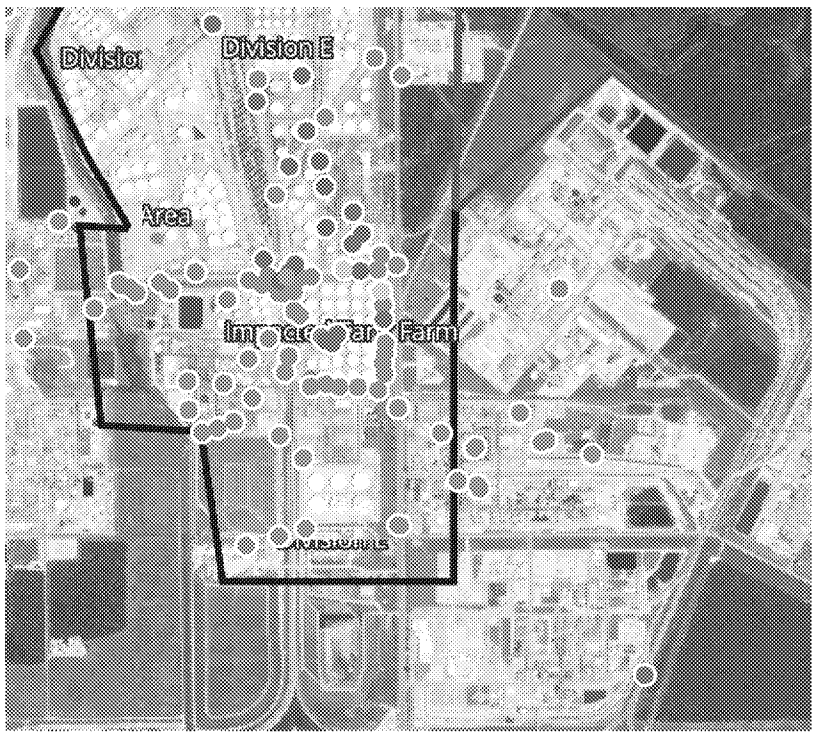
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 2:00:00 PM to 4/15/2019 3:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 14:01:13	0.120 ppm
	4/15/2019 14:02:35	0.180 ppm
	4/15/2019 14:03:49	0.200 ppm
	4/15/2019 14:02:28	0.020 ppm
	4/15/2019 14:06:33	0.160 ppm
	4/15/2019 14:06:53	0.080 ppm
	4/15/2019 14:10:56	0.020 ppm
	4/15/2019 14:15:01	0.030 ppm
	4/15/2019 14:15:15	0.090 ppm
	4/15/2019 14:16:09	0.020 ppm
	4/15/2019 14:20:15	1.910 ppm
	4/15/2019 14:35:09	0.120 ppm
	4/15/2019 14:17:36	1.140 ppm
	4/15/2019 14:37:25	0.040 ppm
	4/15/2019 14:40:09	0.050 ppm
	4/15/2019 14:29:30	0.330 ppm
	4/15/2019 14:39:11	0.020 ppm
	4/15/2019 14:54:41	0.080 ppm
	4/15/2019 14:52:25	0.120 ppm
	4/15/2019 14:57:55	0.030 ppm
	4/15/2019 14:40:32	0.440 ppm
	4/15/2019 14:44:29	0.780 ppm
Impacted Tank Farm	4/15/2019 14:17:14	0.250 ppm
	4/15/2019 14:19:06	0.090 ppm
	4/15/2019 14:28:27	0.740 ppm
	4/15/2019 14:21:14	0.150 ppm
	4/15/2019 14:45:10	0.090 ppm
	4/15/2019 14:58:41	0.060 ppm

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Reading Date
4/15/2019 2:00:00 PM to 4/15/2019 3:00:00 PM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

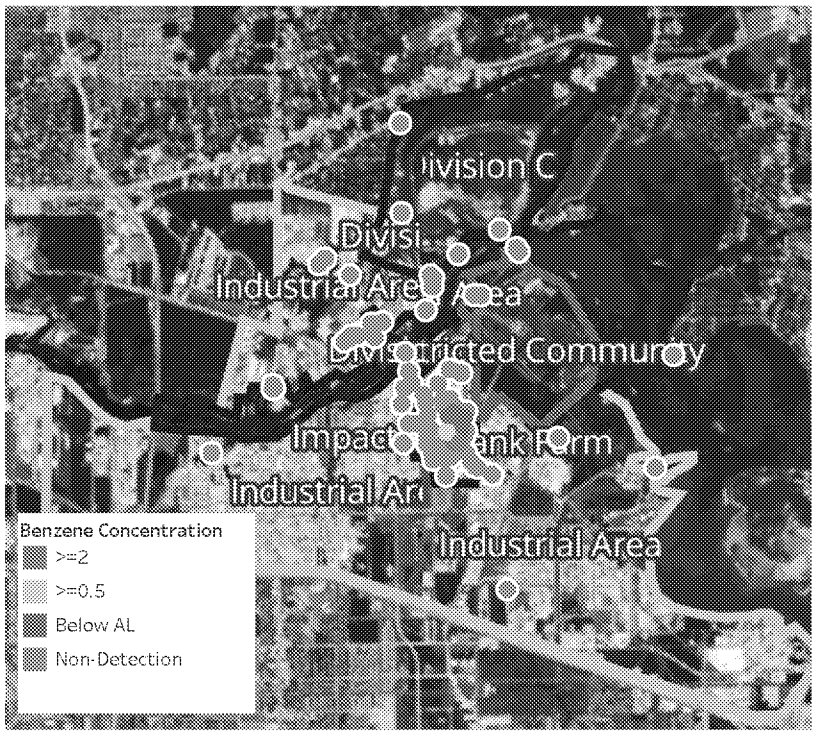
Recent Benzene Detections Greater than 1.00 ppm

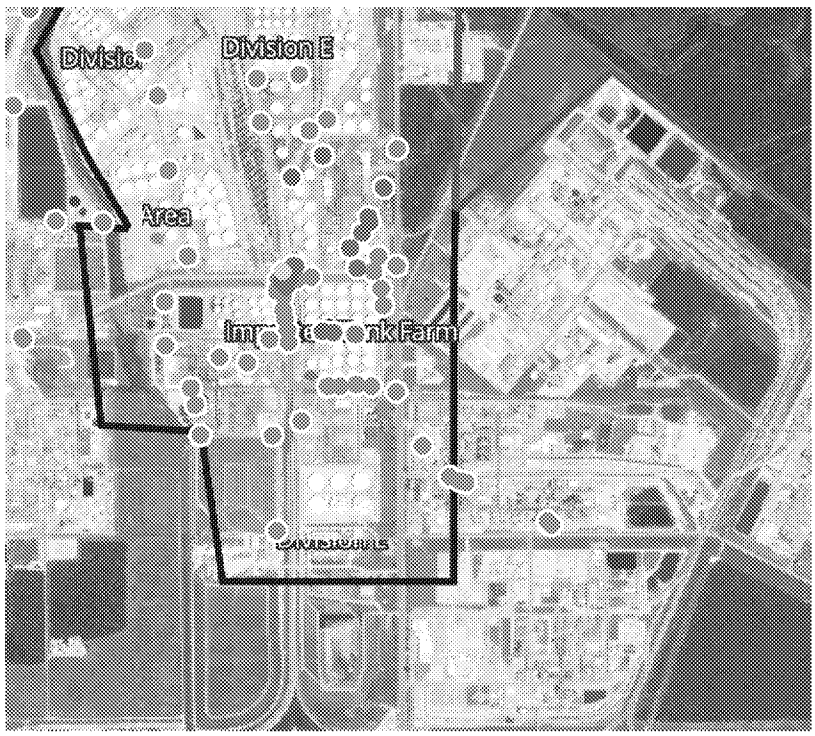
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 14:20:15	Division E	29.7532050,-95.0932650	https://www.google.com/maps/search/?api=1&query=29.7532050,-95.0932650	1.9100 ppm
4/15/2019 14:17:36	Division E	29.7426330,-95.0966210	https://www.google.com/maps/search/?api=1&query=29.7426330,-95.0966210	1.1400 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 3:00:00 PM to 4/15/2019 4:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 15:01:24	0.0800 ppm
	4/15/2019 15:02:54	0.1700 ppm
	4/15/2019 15:08:55	0.2000 ppm
	4/15/2019 15:12:19	0.2600 ppm
	4/15/2019 15:12:38	0.1700 ppm
	4/15/2019 15:14:41	0.2900 ppm
	4/15/2019 15:22:17	0.1900 ppm
	4/15/2019 15:33:41	0.0400 ppm
	4/15/2019 15:36:59	0.3100 ppm
	4/15/2019 15:45:16	0.4300 ppm
	4/15/2019 15:46:18	0.1300 ppm
	4/15/2019 15:52:20	0.7300 ppm
	4/15/2019 15:52:22	0.0300 ppm
	4/15/2019 15:54:02	0.1000 ppm
Impacted Tank Farm	4/15/2019 15:16:32	0.0500 ppm
	4/15/2019 15:26:36	0.6750 ppm
	4/15/2019 15:42:40	0.0700 ppm

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Reading Date
4/15/2019 3:00:00 PM to 4/15/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Spall, Amy [Amy.Spall@WestonSolutions.com]
Sent: 4/3/2019 9:02:59 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: 20190403_1500 Tank Volume Update
Attachments: 20190403.1500.Event Log.pdf; 20190323_TankFarmMap.pdf; 20190403_1500 Volume Status.xlsx

Amy Spall
Associate Scientist II
5599 San Felipe, Suite 700
Houston, Texas 77056

(713)-985-6648 Direct
573-539-9090 Cell
Amy.spall@westonsolutions.com
www.westonsolutions.com

From: Bryan Carlisle [mailto:bcarlisle@responsegroupinc.com]
Sent: Wednesday, April 03, 2019 3:38 PM
To: Spall, Amy <Amy.Spall@WestonSolutions.com>; Michael.Honeycutt@tceq.texas.gov; Brandy.Brooks@tceq.texas.gov; Richard.Chism@tceq.texas.gov; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia.gandee@tceq.texas.gov; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; Anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; spill12@tceq.texas.gov; Loesel.matthew@epa.gov; Adams.adam@epa.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; spill12@tceq.texas.gov; Jenniffier.hawes@dps.texas.gov; patel.anish@epa.gov
Cc: Rene Lozada <RLozada@responsegroupinc.com>; Dustin White <dwhite@responsegroupinc.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; Margaret Zalabak <MZalabak@responsegroupinc.com>; cgitcresponse@gmail.com
Subject: 20190403_1500 Tank Volume Update

**** External Email ****
Good afternoon,

Please see attached for the current tank volume status and incident event log as of 15:00 on April 03, 2019. Please remember that the tank volume status are estimates based off of thermal imaging calculations.

Vac Trucks used :
6 – 130 bbl
19 – 70 bbl

Next update will be for 19:00 on April 03, 2019

Thank you and have a safe day!

B. K. Carlisle
The Response Group
13939 Telge Rd.
Cypress, T.X. 77429
Office: 281.880.5000 ext. 258

WARNING: External Email: This email originated outside of Weston Solutions. DO NOT CLICK on any links or attachments unless you recognize the sender and are expecting the email.
CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/14/2019 3:12:08 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1000 Benzene Reports
Attachments: 20190414_0900_Benzene_Report.pdf; 20190414_1000_Independence_Benzene_Report.pdf

All,

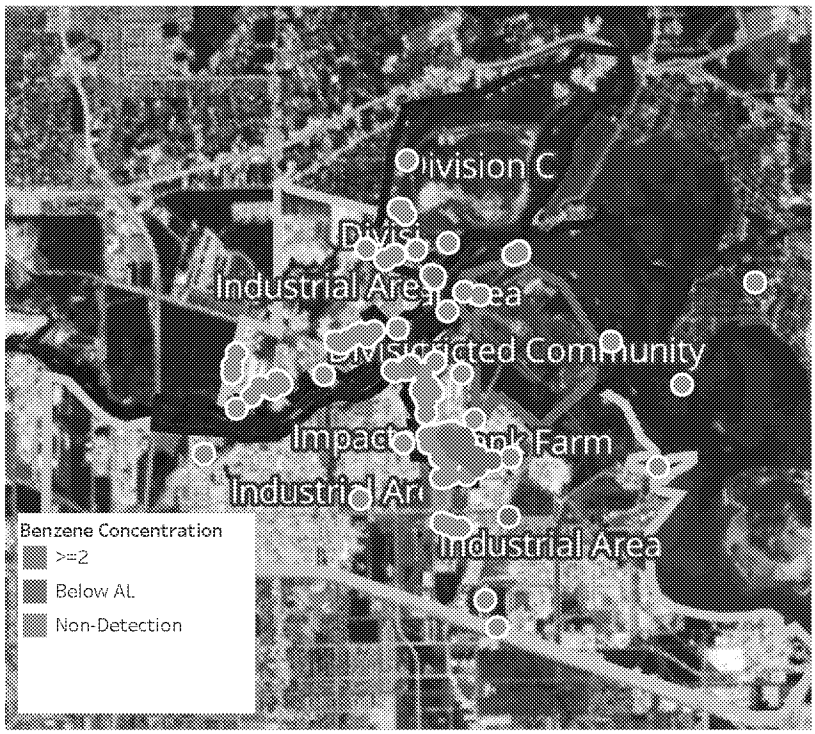
Please see the attached documents of benzene readings between 0800-1000. Let me know if you have any questions. Thanks!

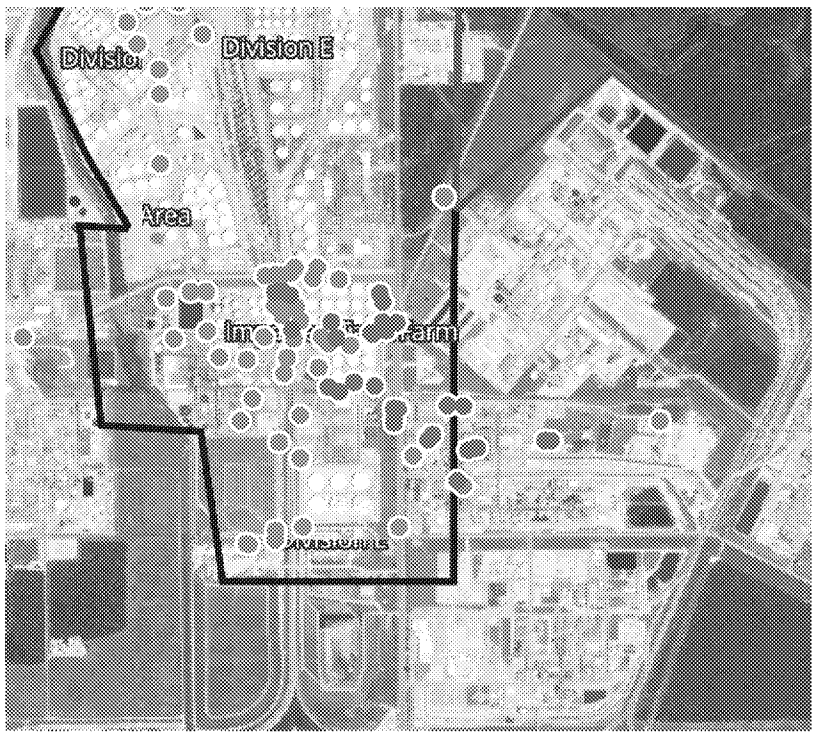
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 8:00:00 AM to 4/14/2019 9:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/14/2019 08:15:38	2.600 ppm
Division C	4/14/2019 08:44:15	0.150 ppm
Division E	4/14/2019 08:16:37	0.020 ppm
	4/14/2019 08:27:55	0.020 ppm
	4/14/2019 08:31:08	0.020 ppm
	4/14/2019 08:41:14	0.050 ppm
	4/14/2019 08:50:50	0.020 ppm
	4/14/2019 08:54:01	0.030 ppm
	4/14/2019 08:57:59	0.050 ppm
	4/14/2019 08:59:34	0.060 ppm
Impacted Tank Farm	4/14/2019 08:08:57	0.030 ppm
	4/14/2019 08:02:23	0.350 ppm
	4/14/2019 08:19:26	0.100 ppm
	4/14/2019 08:11:35	0.390 ppm
	4/14/2019 08:15:44	0.300 ppm
	4/14/2019 08:17:40	0.360 ppm
	4/14/2019 08:28:02	0.430 ppm
	4/14/2019 08:52:03	0.050 ppm
	4/14/2019 08:37:57	0.160 ppm
	4/14/2019 08:51:17	0.030 ppm
Industrial Area	4/14/2019 08:02:19	0.040 ppm
	4/14/2019 08:07:45	0.020 ppm
	4/14/2019 08:03:30	0.020 ppm
	4/14/2019 08:06:40	0.020 ppm
	4/14/2019 08:13:41	0.020 ppm
	4/14/2019 08:19:10	0.060 ppm
	4/14/2019 08:22:48	0.050 ppm
	4/14/2019 08:20:11	0.050 ppm
	4/14/2019 08:23:36	0.050 ppm
	4/14/2019 08:25:40	0.060 ppm
	4/14/2019 08:26:48	0.060 ppm
	4/14/2019 08:29:53	0.050 ppm
	4/14/2019 08:32:49	0.050 ppm
	4/14/2019 08:37:46	0.040 ppm
	4/14/2019 08:36:54	0.050 ppm
	4/14/2019 08:34:54	0.050 ppm
	4/14/2019 08:40:24	0.060 ppm
	4/14/2019 08:43:18	0.050 ppm
	4/14/2019 08:44:13	0.070 ppm
	4/14/2019 08:48:29	0.020 ppm

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Reading Date
4/14/2019 8:00:00 AM to 4/14/2019 9:00:00 AM

Benzene Action Level Concentration (ppm)
>=2

PRELIMINARY

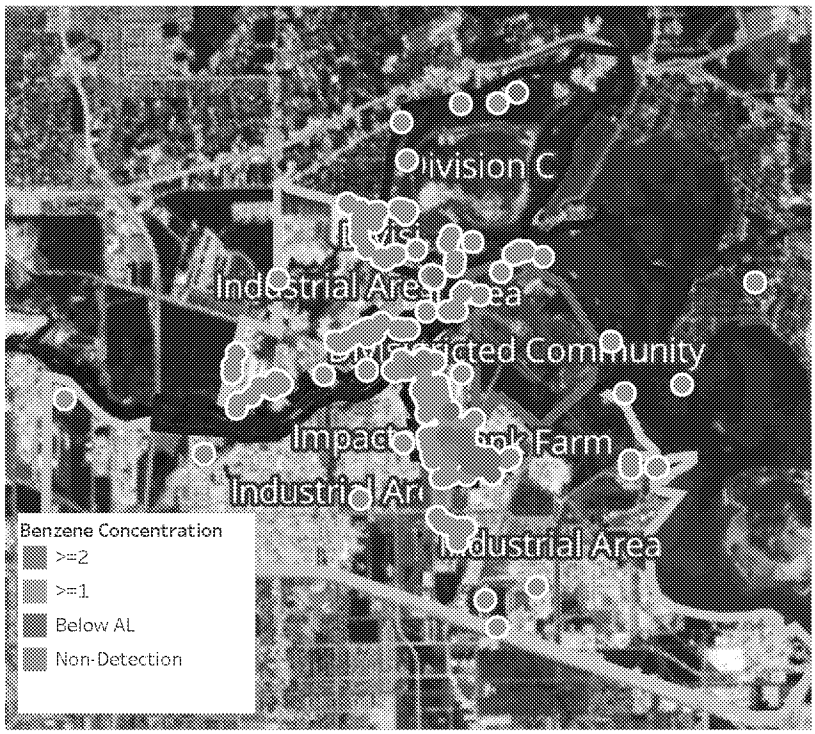
Recent Benzene Detections Greater than 1.00 ppm

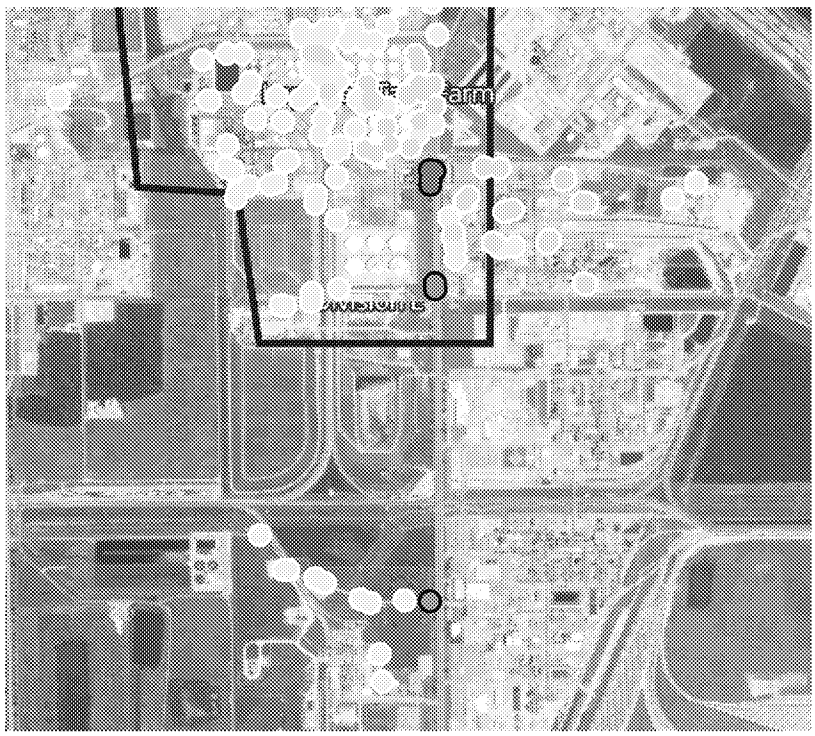
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 08:15:38	Division 8	29.7436100,-95.0997770	https://www.google.com/maps/search/?api=1&query=29.7436100,-95.0997770	2.600 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 8:00:00 AM to 4/14/2019 10:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Industrial Area	4/14/2019 08:02:19	0.04000 ppm
	4/14/2019 08:03:30	0.02000 ppm
	4/14/2019 08:13:41	0.02000 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/14/2019 11:08:03 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1800 Benzene Reports
Attachments: 20190414_1700_Benzene_Report.pdf; 20190414_1800_Benzene_Report.pdf

All,

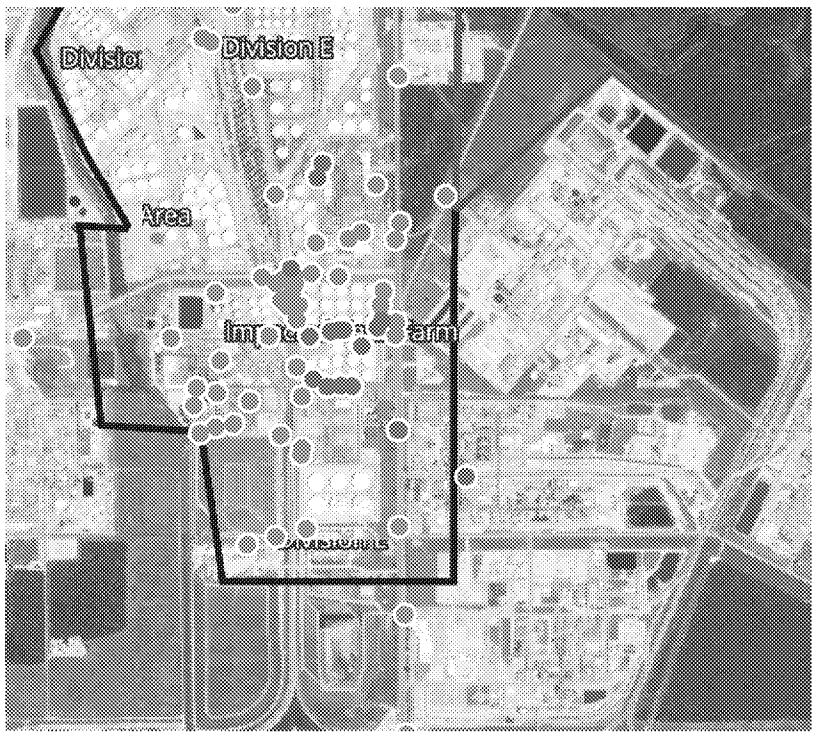
Please see the attached documents of benzene readings between 1600-1800. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 4:00:00 PM to 4/14/2019 5:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 16:26:30	0.0200 ppm
	4/14/2019 16:29:30	0.2000 ppm
	4/14/2019 16:33:00	0.0200 ppm
	4/14/2019 16:37:20	0.0300 ppm
	4/14/2019 16:37:03	0.0500 ppm
	4/14/2019 16:27:49	0.0200 ppm
	4/14/2019 16:37:36	0.0200 ppm
	4/14/2019 16:41:57	0.0200 ppm
	4/14/2019 16:43:40	0.0200 ppm
Impacted Tank Farm	4/14/2019 16:00:34	0.1100 ppm
	4/14/2019 16:06:20	0.1100 ppm
	4/14/2019 16:21:43	0.0500 ppm
	4/14/2019 16:25:55	0.3200 ppm
	4/14/2019 16:38:02	0.1100 ppm
	4/14/2019 16:41:37	0.0300 ppm
	4/14/2019 16:18:14	0.4200 ppm
	4/14/2019 16:58:10	0.1000 ppm

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Reading Date
4/14/2019 4:00:00 PM to 4/14/2019 5:00:00 PM

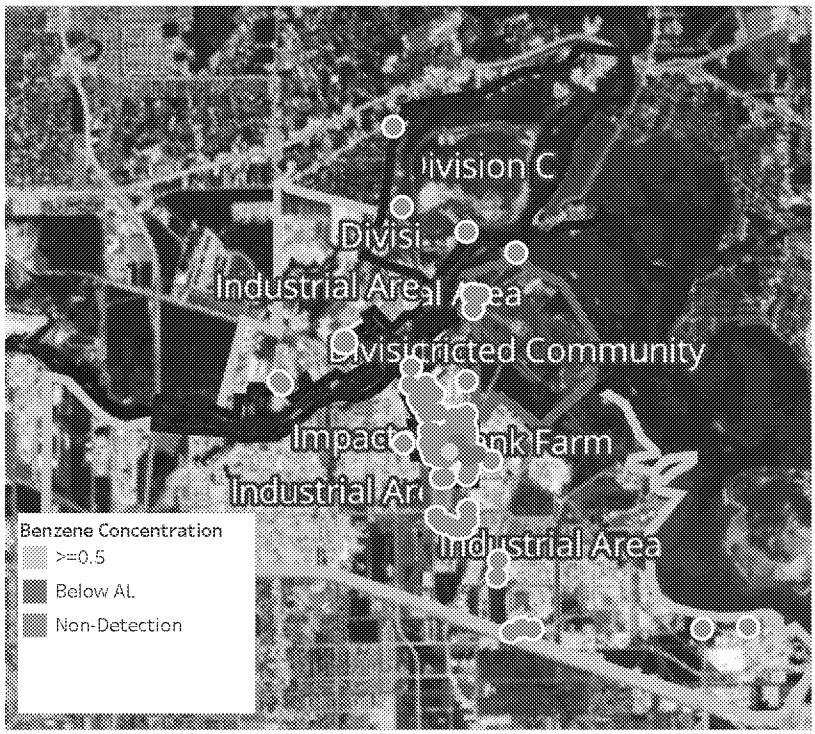
Benzene Action Level Concentration (ppm)

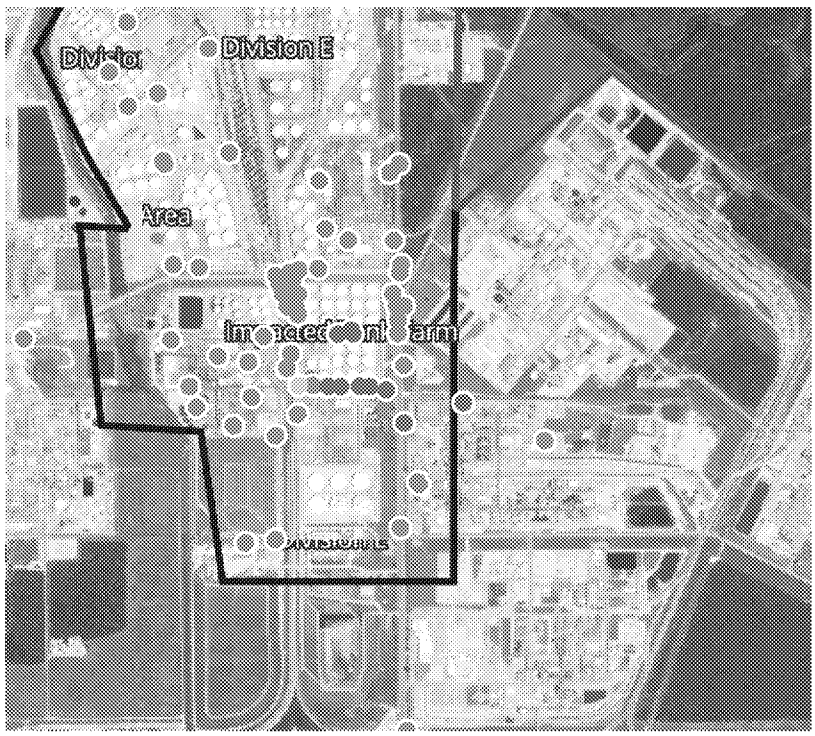
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 5:00:00 PM to 4/14/2019 6:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 17:13:49	0.0700 ppm
	4/14/2019 17:01:16	0.1500 ppm
	4/14/2019 17:21:33	0.2600 ppm
	4/14/2019 17:29:54	0.0200 ppm
	4/14/2019 17:32:53	0.0600 ppm
	4/14/2019 17:34:52	0.0400 ppm
	4/14/2019 17:44:29	0.7700 ppm
Impacted Tank Farm	4/14/2019 17:20:17	0.1400 ppm
	4/14/2019 17:23:56	0.2400 ppm
	4/14/2019 17:41:44	0.1500 ppm
Industrial Area	4/14/2019 17:44:57	0.0600 ppm

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Reading Date
4/14/2019 5:00:00 PM to 4/14/2019 6:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Turner, Philip [Turner.Philip@epa.gov]
Sent: 4/15/2019 8:44:39 PM
To: Patel, Anish [patel.anish@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: james.collins@westonsolutions.com
Subject: RE: Additional Laboratory Analysis For Outfall?

Is our goal to mimic what they're doing for direct comparison purposes?

From: Patel, Anish
Sent: Monday, April 15, 2019 3:03 PM
To: Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Shaikh, Taimur <Shaikh.Taimur@epa.gov>
Cc: james.collins@westonsolutions.com
Subject: Additional Laboratory Analysis For Outfall?

All,

Please look at the attached effluent limitations and monitoring requirements that TCEQ have required for ITC's wastewater discharge. Let me know if EPA needs to add any additional analysis to the ones we currently perform on the water samples for the samples we will collect near the discharge outfall.

Thanks in advance,

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Adams, Adam
Sent: Monday, April 15, 2019 2:56 PM
To: Patel, Anish <patel.anish@epa.gov>; James Collins <james.collins@westonsolutions.com>
Subject: Fwd: Request For Discharge Authorization

FYI only

Sent from my iPhone

Begin forwarded message:

> **From:** "Smalley, Bryant" <smalley.bryant@epa.gov>
> **Date:** April 14, 2019 at 9:48:35 AM CDT
> **To:** "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>

Cc: "Quinones, Edwin" <quinones.edwin@epa.gov>, "Smith, Monica" <smith.monica@epa.gov>, "Webster, Susan" <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

Ronnie – Ed's comments are incorporated. Let me know if you have any more thoughts or edits.

Bryant

From: Smalley, Bryant
Sent: Sunday, April 14, 2019 8:42 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Adam Adams <Adams.Adam@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Cc: Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

All – Attached is an updated version, incorporating Adams and Ronnie's comments.

Please provide any feedback ASAP.

Bryant

From: Smalley, Bryant
Sent: Sunday, April 14, 2019 7:35 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Adam Adams <Adams.Adam@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Cc: Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

FYSA – First Draft. Just FYI, this does not include the statement for Continuing Discharge of Non-Incident Related Wastewater, since I am unclear why this would not be covered in their existing permit. It can be added if needed, but I think we need to clarify when they transition from this authorization to their TCEQ permit.

Adam – can we discuss this this morning?

Bryant

From: Crossland, Ronnie
Sent: Saturday, April 13, 2019 4:29 PM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: Fwd: Request For Discharge Authorization

Sent from my iPhone

Begin forwarded message:

From: Brent Weber <bweber@iterm.com>
Date: April 13, 2019 at 4:17:39 PM CDT
To: "Crossland, Ronnie (Crossland.Ronnie@epa.gov)" <Crossland.Ronnie@epa.gov>, "Adams, Adam (Adams.Adam@epa.gov)" <Adams.Adam@epa.gov>
Cc: "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "harrison.reback@bakerbotts.com" <harrison.reback@bakerbotts.com>, "aileen.hooks@bakerbotts.com" <aileen.hooks@bakerbotts.com>
Subject: Request For Discharge Authorization

Attached is an ITC request for authorization to discharge incident related wastewater.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Rauscher, Jon [Rauscher.Jon@epa.gov]
Sent: 4/15/2019 8:17:45 PM
To: Patel, Anish [patel.anish@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: james.collins@westonsolutions.com
Subject: RE: Additional Laboratory Analysis For Outfall?

I recommend continuing our current list of analyses for water samples: EPA surface water results

1. COD
2. O&G
3. PFAS
4. SVOCs
5. VOCs

From: Patel, Anish
Sent: Monday, April 15, 2019 3:03 PM
To: Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Shaikh, Taimur <Shaikh.Taimur@epa.gov>
Cc: james.collins@westonsolutions.com
Subject: Additional Laboratory Analysis For Outfall?

All,

Please look at the attached effluent limitations and monitoring requirements that TCEQ have required for ITC's wastewater discharge. Let me know if EPA needs to add any additional analysis to the ones we currently perform on the water samples for the samples we will collect near the discharge outfall.

Thanks in advance,

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

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Cc: "Quinones, Edwin" <quinones.edwin@epa.gov>, "Smith, Monica" <smith.monica@epa.gov>, "Webster, Susan" <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

Ronnie – Ed's comments are incorporated. Let me know if you have any more thoughts or edits.

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From: Smalley, Bryant
Sent: Sunday, April 14, 2019 8:42 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Adam Adams <Adams.Adam@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Cc: Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

All – Attached is an updated version, incorporating Adams and Ronnie's comments.

Please provide any feedback ASAP.

Bryant

From: Smalley, Bryant
Sent: Sunday, April 14, 2019 7:35 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Adam Adams <Adams.Adam@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Cc: Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

FYSA – First Draft. Just FYI, this does not include the statement for Continuing Discharge of Non-Incident Related Wastewater, since I am unclear why this would not be covered in their existing permit. It can be added if needed, but I think we need to clarify when they transition from this authorization to their TCEQ permit.

Adam – can we discuss this this morning?

Bryant

From: Crossland, Ronnie
Sent: Saturday, April 13, 2019 4:29 PM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: Fwd: Request For Discharge Authorization

Sent from my iPhone

Begin forwarded message:

From: Brent Weber <bweber@iterm.com>
Date: April 13, 2019 at 4:17:39 PM CDT
To: "Crossland, Ronnie (Crossland.Ronnie@epa.gov)" <Crossland.Ronnie@epa.gov>, "Adams, Adam (Adams.Adam@epa.gov)" <Adams.Adam@epa.gov>
Cc: "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "harrison.reback@bakerbotts.com" <harrison.reback@bakerbotts.com>, "aileen.hooks@bakerbotts.com" <aileen.hooks@bakerbotts.com>
Subject: Request For Discharge Authorization

Attached is an ITC request for authorization to discharge incident related wastewater.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/14/2019 9:02:06 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1600 Benzene Reports
Attachments: 20190414_1500_Benzene_Report.pdf; 20190414_1600_Benzene_Report.pdf

All,

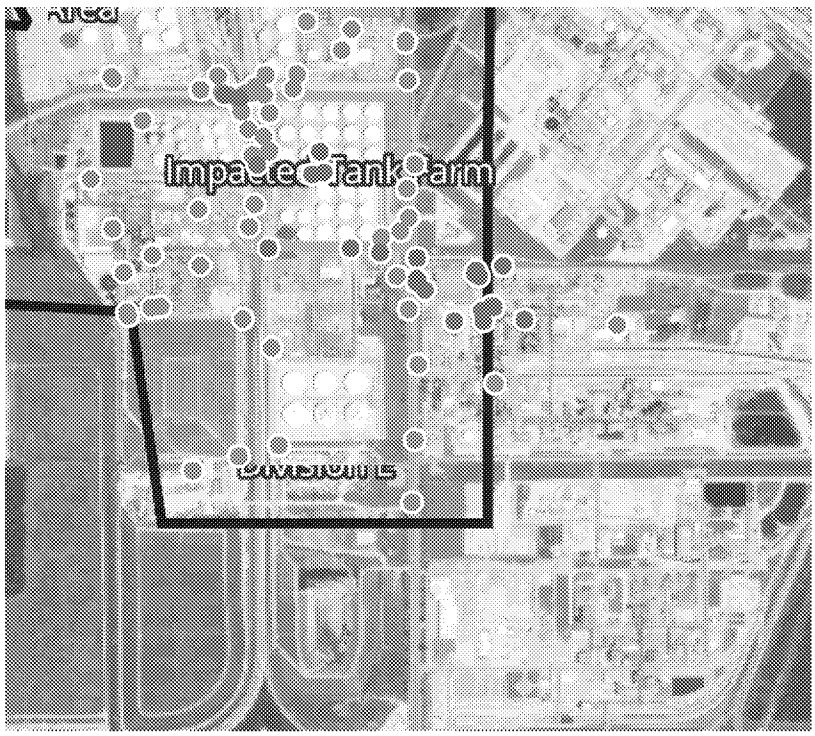
Please see the attached documents of benzene readings between 1400-1600. Let me know if you have any questions. Thanks!

Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 2:00:00 PM to 4/14/2019 3:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 14:02:37	0.3500 ppm
	4/14/2019 14:14:10	0.0200 ppm
	4/14/2019 14:26:33	0.0400 ppm
	4/14/2019 14:31:15	0.0300 ppm
	4/14/2019 14:44:20	0.0700 ppm
	4/14/2019 14:47:40	0.0300 ppm
	4/14/2019 14:48:42	0.1400 ppm
	4/14/2019 14:55:49	0.0600 ppm
	4/14/2019 14:18:13	0.0100 ppm
	4/14/2019 14:22:34	0.0200 ppm
Impacted Tank Farm	4/14/2019 14:15:23	0.2500 ppm
	4/14/2019 14:39:21	0.1000 ppm
	4/14/2019 14:48:19	0.1500 ppm
Industrial Area	4/14/2019 14:43:38	0.0500 ppm
	4/14/2019 14:33:12	0.0300 ppm
	4/14/2019 14:17:37	0.0600 ppm
	4/14/2019 14:15:47	0.0500 ppm
	4/14/2019 14:24:24	0.0400 ppm
	4/14/2019 14:41:41	0.0400 ppm
	4/14/2019 14:36:09	0.0300 ppm
	4/14/2019 14:31:36	0.0200 ppm
	4/14/2019 14:45:21	0.0500 ppm
	4/14/2019 14:21:25	0.0500 ppm
	4/14/2019 14:39:45	0.0400 ppm
	4/14/2019 14:34:31	0.0300 ppm
	4/14/2019 14:26:42	0.0400 ppm
	4/14/2019 14:29:33	0.0500 ppm
	4/14/2019 14:58:50	0.0200 ppm

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Reading Date
4/14/2019 2:00:00 PM to 4/14/2019 3:00:00 PM

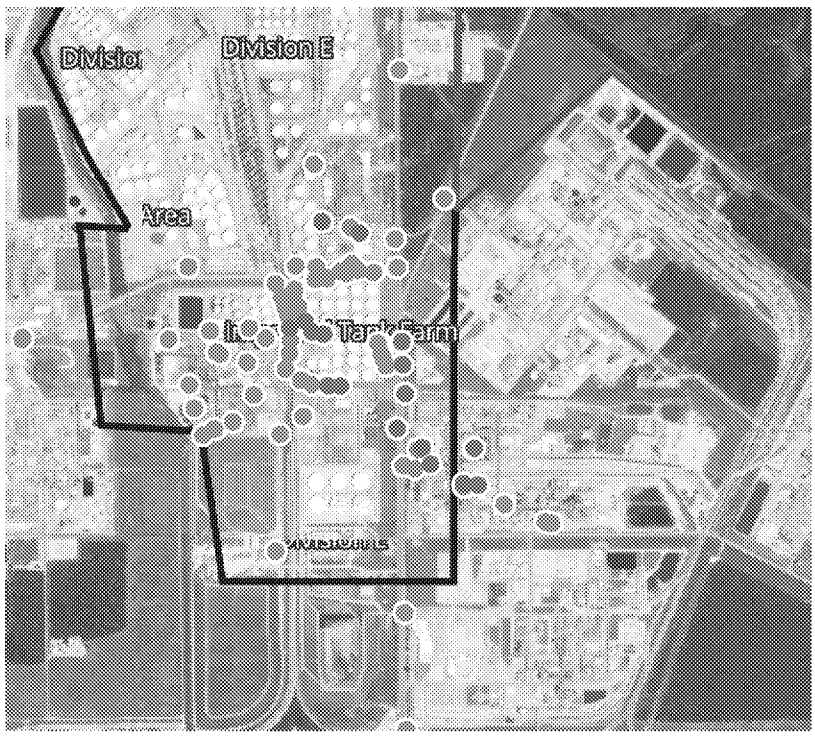
Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 3:00:00 PM to 4/14/2019 4:00:00 PM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 15:06:09	0.0200 ppm
	4/14/2019 15:14:03	0.0300 ppm
	4/14/2019 15:22:43	0.0300 ppm
	4/14/2019 15:27:59	0.0200 ppm
	4/14/2019 15:52:30	0.0200 ppm
	4/14/2019 15:26:21	0.0300 ppm
	4/14/2019 15:45:53	0.2500 ppm
	4/14/2019 15:50:26	0.2000 ppm
	4/14/2019 15:50:56	0.1700 ppm
Impacted Tank Farm	4/14/2019 15:00:10	0.0600 ppm
	4/14/2019 15:19:54	0.0900 ppm
	4/14/2019 15:43:13	0.1000 ppm
Industrial Area	4/14/2019 15:00:05	0.0200 ppm
	4/14/2019 15:05:05	0.0200 ppm
	4/14/2019 15:12:54	0.0500 ppm
	4/14/2019 15:21:09	0.0300 ppm
	4/14/2019 15:19:52	0.0500 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 3:00:00 PM to 4/14/2019 4:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/14/2019 7:09:37 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1400 Benzene Reports
Attachments: 20190414_1300_Benzene_Report.pdf; 20190414_1400_Benzene_Report.pdf

All,

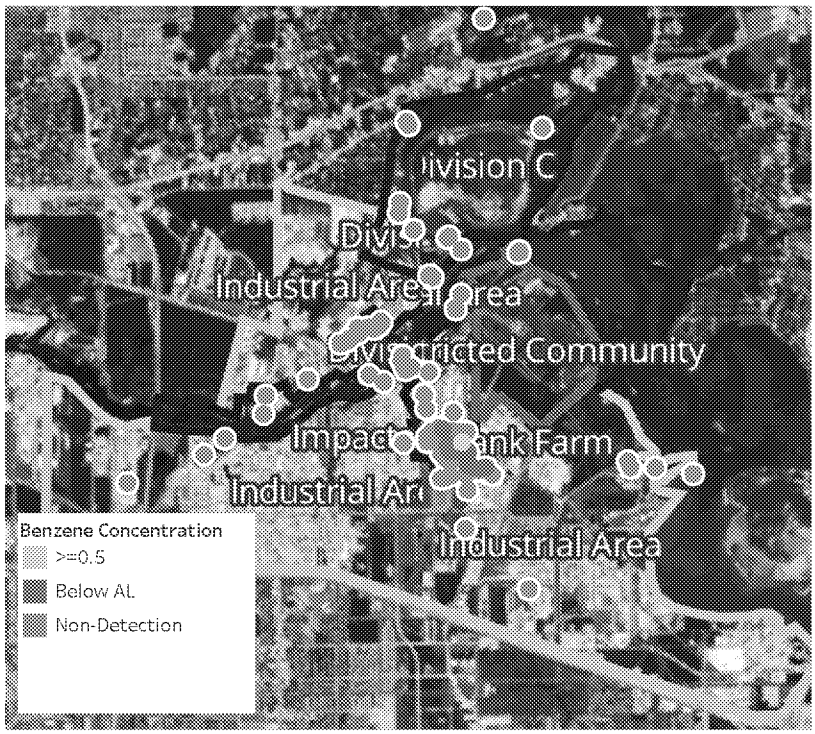
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

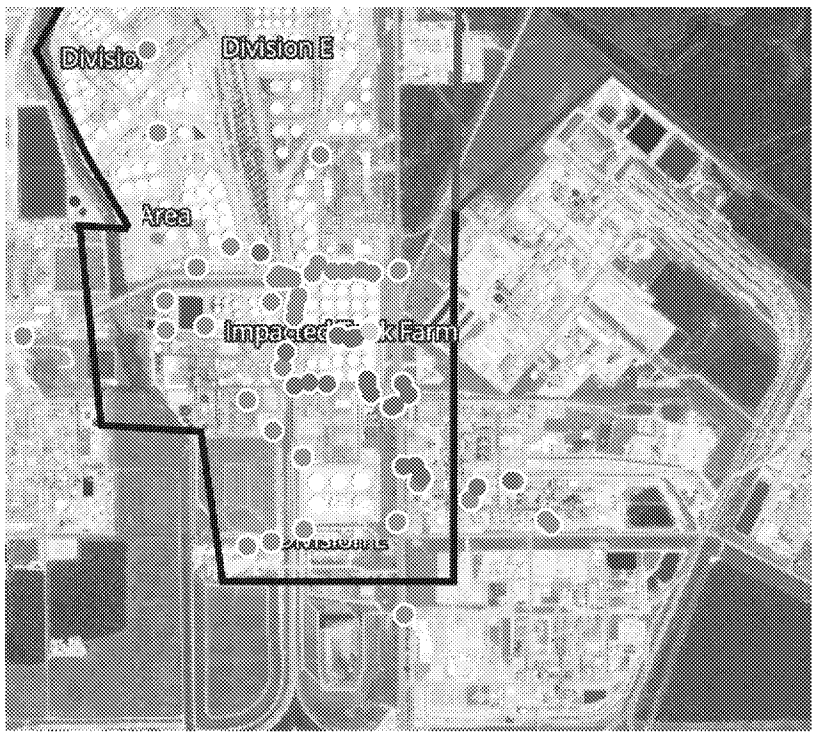
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 12:00:00 PM to 4/14/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 12:01:18	0.1100 ppm
	4/14/2019 12:02:50	0.0700 ppm
	4/14/2019 12:12:04	0.0400 ppm
	4/14/2019 12:10:35	0.0300 ppm
	4/14/2019 12:17:23	0.2000 ppm
	4/14/2019 12:18:18	0.0200 ppm
	4/14/2019 12:39:54	0.0300 ppm
	4/14/2019 12:44:22	0.0100 ppm
	4/14/2019 12:54:46	0.0300 ppm
	4/14/2019 12:58:13	0.0200 ppm
Impacted Tank Farm	4/14/2019 12:08:00	0.6000 ppm
	4/14/2019 12:14:45	0.0800 ppm
	4/14/2019 12:32:33	0.1200 ppm
	4/14/2019 12:42:10	0.0800 ppm
	4/14/2019 12:58:52	0.0400 ppm
Industrial Area	4/14/2019 12:05:04	0.0200 ppm
	4/14/2019 12:17:09	0.0300 ppm
	4/14/2019 12:22:46	0.0200 ppm
	4/14/2019 12:30:24	0.0200 ppm
	4/14/2019 12:38:11	0.0800 ppm
	4/14/2019 12:39:57	0.0800 ppm
	4/14/2019 12:42:31	0.0300 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 12:00:00 PM to 4/14/2019 1:00:00 PM

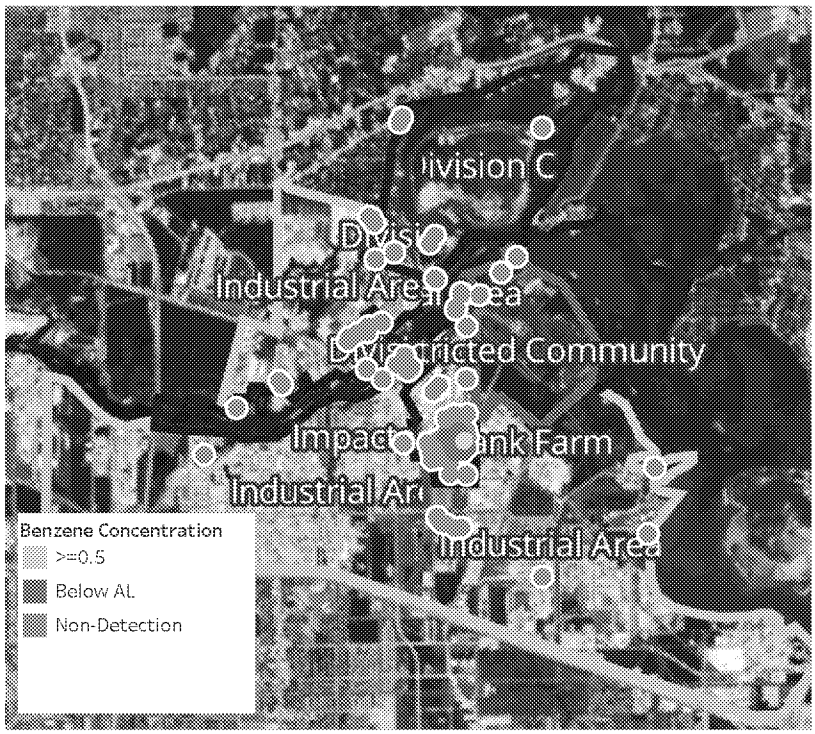
Benzene Action Level Concentration (ppm)

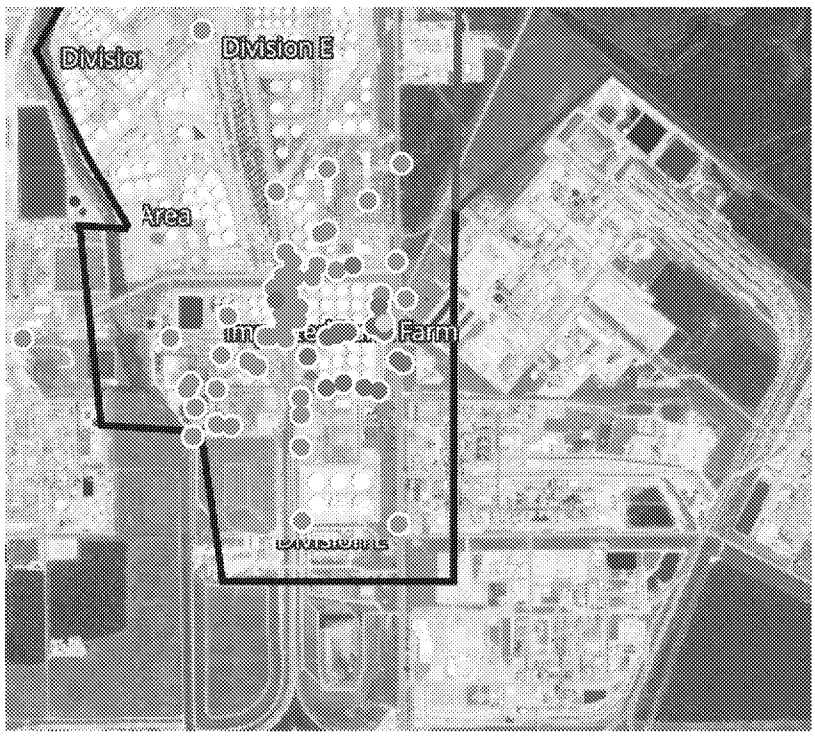
PRELIMINARY
Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 1:00:00 PM to 4/14/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 13:15:45	0.0300 ppm
	4/14/2019 13:12:10	0.2500 ppm
	4/14/2019 13:23:55	0.2500 ppm
	4/14/2019 13:33:14	0.0600 ppm
	4/14/2019 13:37:56	0.1200 ppm
	4/14/2019 13:46:30	0.0900 ppm
	4/14/2019 13:51:16	0.0300 ppm
	4/14/2019 13:54:13	0.0200 ppm
Impacted Tank Farm	4/14/2019 13:18:23	0.1400 ppm
	4/14/2019 13:23:10	0.0600 ppm
	4/14/2019 13:22:10	0.1100 ppm
	4/14/2019 13:41:40	0.1100 ppm
	4/14/2019 13:45:38	0.1000 ppm
	4/14/2019 13:34:14	0.6800 ppm
	4/14/2019 13:15:05	0.2800 ppm
	4/14/2019 13:49:58	0.1600 ppm
	4/14/2019 13:45:09	0.4400 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 1:00:00 PM to 4/14/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Adams, Adam [Adams.Adam@epa.gov]
Sent: 4/14/2019 1:46:35 PM
To: Spall, Amy [amy.spall@westonsolutions.com]; Patel, Anish [patel.anish@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]
Subject: FW: 2ns 80s Fire: Revised Water Sampling Plan and responses to TCEQ comments
Attachments: ATT00001.txt; Draft Water Product and Foam Sampling Plan Deer Park April 14_JK.docx; WaterPlanComments_TCEQ Responses_JK.docx

FYI.
Adam

From: Helen Dubach <hdubach@ctehrm.com>
Sent: Sunday, April 14, 2019 8:00 AM
To: spill12 <spill12@tceq.texas.gov>; Adams, Adam <Adams.Adam@epa.gov>; Martin, Johnathan (PCS) <Johnathan.Martin@pcs.hctx.net>; bill.everett@pcs.hctx.net
Subject: FW: 2ns 80s Fire: Revised Water Sampling Plan and responses to TCEQ comments

Meeting scheduled for 1300 today (04.14) to go through any final comments on the Sampling Plan

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427

From: Helen Dubach
Sent: Sunday, April 14, 2019 7:05 AM
To: 'spill12' <spill12@tceq.texas.gov>; 'Adams, Adam' <Adams.Adam@epa.gov>
Subject: 2ns 80s Fire: Revised Water Sampling Plan and responses to TCEQ comments

Please see attached revised Water Sampling Plan addressing TCEQ comments. Can we sit down this afternoon to go through the document and see what we need to do to get it finalized?

Note that the sampling has been ongoing since March 23.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427

From: Jeffrey Wakefield <Jeffrey.Wakefield@cardno.com>
Sent: Saturday, April 13, 2019 4:14 PM
To: Helen Dubach <hdubach@ctehrm.com>
Subject: Revised draft water sampling plan and responses to TCEQ comments

Jeffrey Wakefield PhD
SENIOR CONSULTANT
PRINCIPAL - ENVIRONMENTAL ECONOMICS
CARDNO

Mobile +1 302 388 9173
Address 17124 Jays Way, Milton, Delaware 19968
Email jeffrey.wakefield@cardno.com Web www.cardno.com

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Message

From: James McCormack [jmccormack@cteh.com]
Sent: 4/6/2019 5:55:30 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: FW: Fire fighting Foam Inventory Protocol
Attachments: Firefighting Foam Inventory Protocol_04_02_2019.pdf

Can you please review this with your team and see if there are any comments. This is a foam inventory procedure which will be done for remaining foam totes onsite.

Thanks,
James

James McCormack, MSES, MPA, CHMM
Senior Environmental Consultant and Director, Business Development
CTEH, LLC
Office: 501-801-8575 | Mobile: 317-473-0688

From: Art Saunders <Art.Saunders@cardno.com>
Sent: Saturday, April 6, 2019 12:45 PM
To: James McCormack <jmccormack@cteh.com>
Cc: Jeffrey Wakefield <Jeffrey.Wakefield@cardno.com>; Lori Stone <lori.stone@cardno.com>
Subject: Fire fighting Foam Inventory Protocol

James – This is a brief protocol for inventorying fire-fighting foam products than remain staged on site, so we can document all relevant information, and identify and data gaps that may need to be filled with sampling and analytical info. Please share with the Unified Command. This effort is ongoing, but depending on H&S, access, and the number of containers and staging areas we have to catalogue and sort through, it could take a week or so to complete the inventory. Once completed, we will share the inventory and the products recommended for sampling for UC review.

Art Saunders
BUSINESS UNIT LEADER, NATURAL RESOURCES NORTHEAST | SR. CONSULTANT / PRINCIPAL
PRINCIPAL - BIOLOGY
CARDNO

Cardno

Direct +1 302 395 3361 Mobile +1 610 220 3957
Address 121 Continental Drive Suite 308, Newark , Delaware 19713
Email art.saunders@cardno.com Web www.cardno.com

CONNECT WITH CARDNO

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FIREFIGHTING FOAM INVENTORY PROTOCOL

NO INVENTORY OR SAMPLING ACTIONS TO TAKE PLACE UNLESS STAGING AREA IS SAFE TO ENTER BEFORE PROCEEDING.

Cataloguing Staged Fire Fighting Foam Containers

All existing available information regarding firefighting materials currently staged on site will be gathered from ITC and catalogued. As there are containers of firefighting foams staged in multiple areas, location, description, and GPS coordinates of each container storage area will be recorded, and areas will also be photographed.

Singular containers such as tankers, totes, or drums will be treated as individual products for inventory purposes. All staged singular containers will be inventoried.

If like containers are palletized or grouped, label information will be reviewed and compared to other containers to ensure all containers are from same manufacturer and represent the same product and batch. If verified to be all the same, palletized or grouped containers will be treated as one individual product for inventory purposes.

For palletized/grouped containers:

- With a permanent marker, a small check mark will be written on the container's label to document that it has been catalogued. Photographs of like containers and representative associated label(s) will be taken for inventory purposes.

For singular containers:

- With a permanent marker, a small check mark will be written on the container's label to document that it has been catalogued. Photographs of singular containers and the associated label(s) will be taken for inventory purposes.

If unlabeled containers are discovered during the inventory process, unique numbers will be assigned and field-labeled using a permanent marker. All field-labeled containers will be photographed such that unique numbers are shown in picture frames.

Inventory Process

Photos and field notes will be utilized to create a spreadsheet detailing all pertinent product and container information available, including staging location, container type and description, manufacturer, product/trade name, batch number, etc. This detailed inventory spreadsheet will be used to group like products. Where available, product SDS and/or other manufacturer information relating to chemical composition and ingredients will be obtained and reviewed.

Sample Selection

Unique products that can be confirmed to **not** contain PFAS compounds (through SDS or other manufacturer information) will not require additional sampling and analysis. Unique products that cannot be confirmed to be free of PFAS compounds will be identified for sampling and analysis for PFAS per the details listed in the project Water and Fire Suppressant Sampling Plan.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/15/2019 1:20:45 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Report
Attachments: 20190415_0800_Benzene_Report.pdf; 20190415_0700_Benzene_Report.pdf

All,

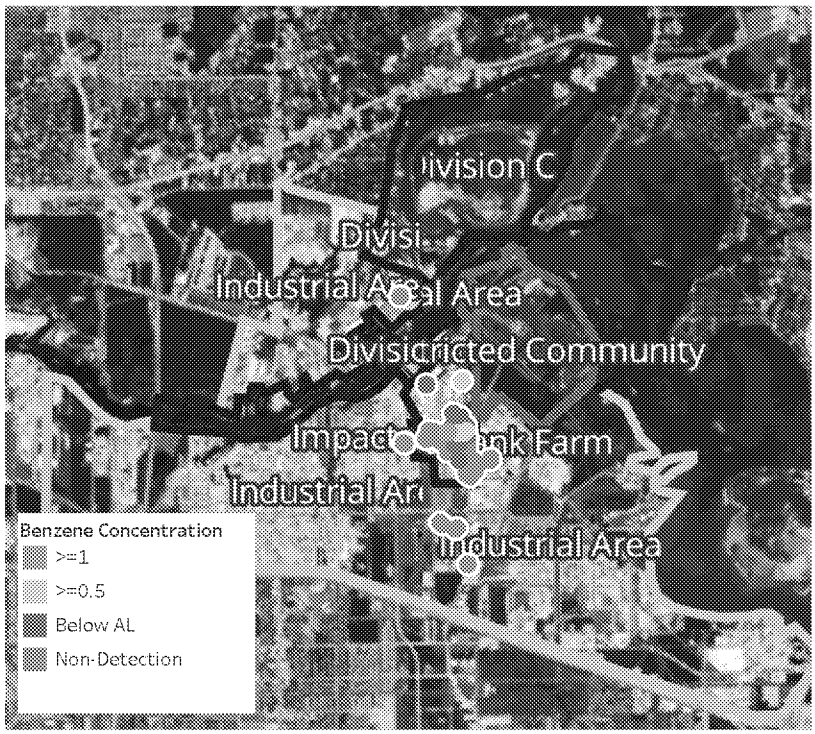
Please see the attached documents of benzene readings between 0600-0800. Let me know if you have any questions. Thanks!

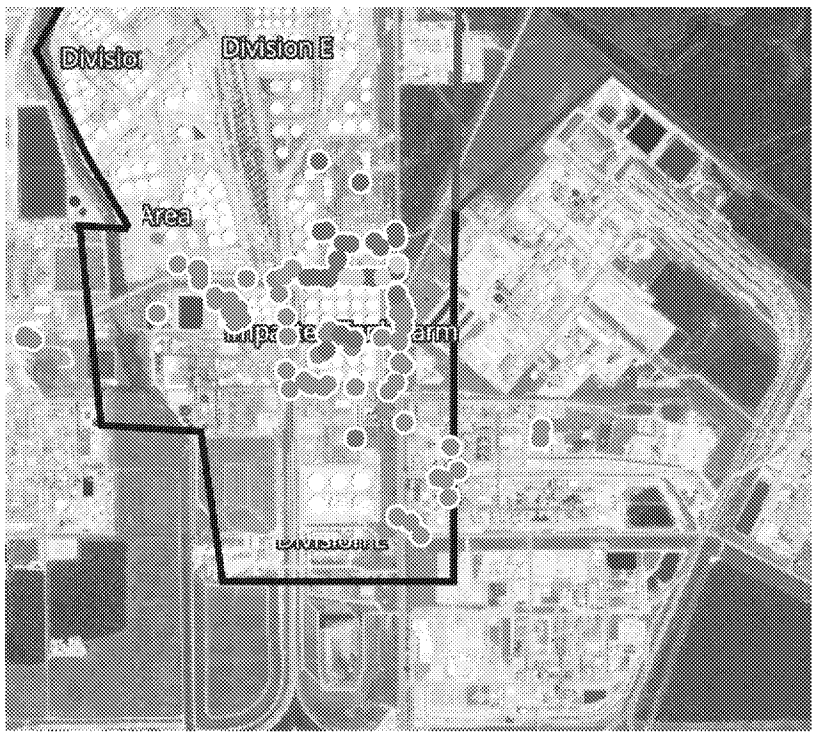
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 6:00:00 AM to 4/15/2019 7:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/15/2019 06:55:59	0.440 ppm
Division E	4/15/2019 06:05:13	0.290 ppm
	4/15/2019 06:13:19	1.820 ppm
	4/15/2019 06:15:29	0.380 ppm
	4/15/2019 06:12:47	0.330 ppm
	4/15/2019 06:19:11	0.040 ppm
	4/15/2019 06:15:13	0.230 ppm
	4/15/2019 06:09:57	0.270 ppm
	4/15/2019 06:14:05	0.500 ppm
	4/15/2019 06:18:54	0.090 ppm
	4/15/2019 06:21:45	0.060 ppm
	4/15/2019 06:23:35	0.560 ppm
	4/15/2019 06:26:41	0.410 ppm
	4/15/2019 06:27:38	0.140 ppm
	4/15/2019 06:23:02	0.150 ppm
	4/15/2019 06:29:57	0.510 ppm
	4/15/2019 06:32:35	0.260 ppm
	4/15/2019 06:34:34	0.790 ppm
	4/15/2019 06:37:19	0.220 ppm
	4/15/2019 06:17:59	1.075 ppm
	4/15/2019 06:24:57	0.050 ppm
	4/15/2019 06:39:48	0.470 ppm
	4/15/2019 06:34:06	0.130 ppm
	4/15/2019 06:43:01	0.090 ppm
	4/15/2019 06:39:59	0.070 ppm
	4/15/2019 06:50:12	0.030 ppm
	4/15/2019 06:44:27	0.260 ppm
	4/15/2019 06:56:01	0.060 ppm
	4/15/2019 06:50:09	0.290 ppm
	4/15/2019 06:52:59	0.400 ppm
	4/15/2019 06:57:56	0.380 ppm
	4/15/2019 06:57:02	0.770 ppm
Impacted Tank Farm	4/15/2019 06:37:13	0.030 ppm
	4/15/2019 06:40:20	0.050 ppm
	4/15/2019 06:42:53	0.030 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 6:00:00 AM to 4/15/2019 7:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

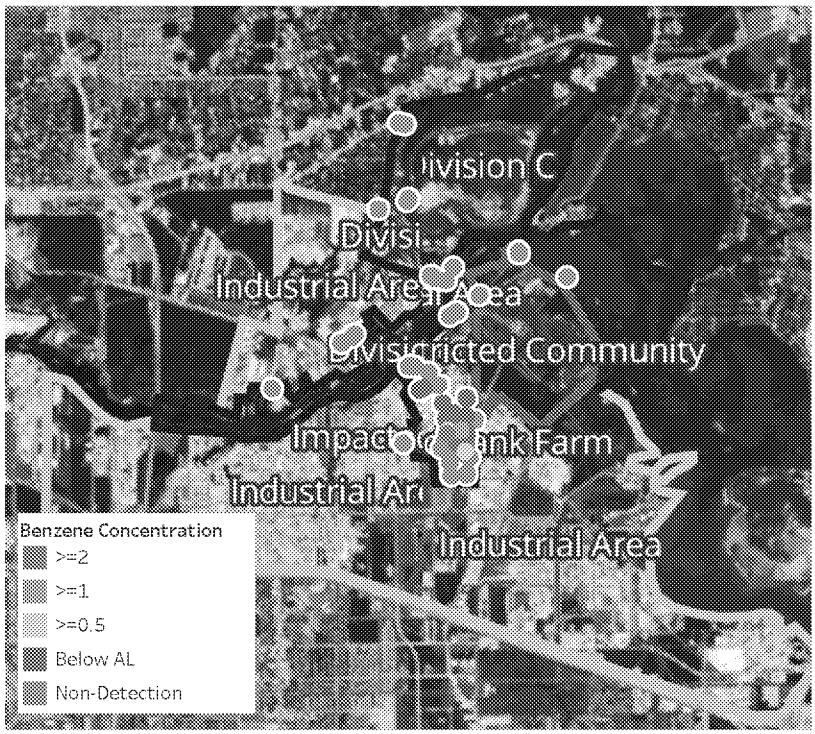
Recent Benzene Detections Greater than 1.00 ppm

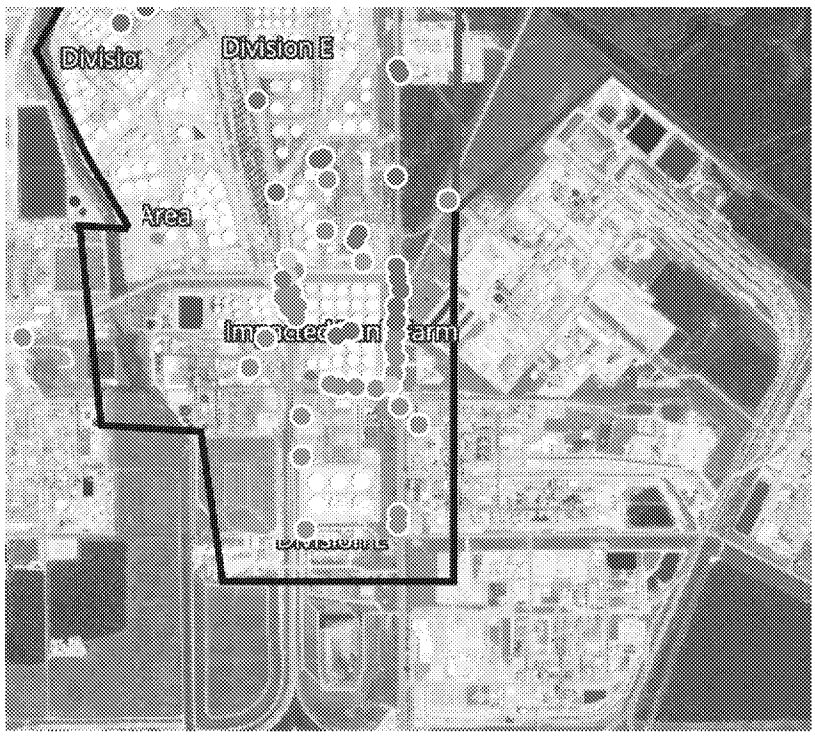
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 06:17:59	Division E	29.7534420,-95.0931050	https://www.google.com/maps/search/?api=1&query=29.7534420,-95.0931050	1.0750 ppm
4/15/2019 06:13:19	Division E	29.7382210,-95.0933690	https://www.google.com/maps/search/?api=1&query=29.7382210,-95.0933690	1.9200 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 7:00:00 AM to 4/15/2019 8:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 07:00:36	0.040 ppm
	4/15/2019 07:04:08	0.180 ppm
	4/15/2019 07:06:07	0.270 ppm
	4/15/2019 07:10:23	0.180 ppm
	4/15/2019 07:15:05	0.030 ppm
	4/15/2019 07:27:28	0.020 ppm
	4/15/2019 07:23:25	0.980 ppm
	4/15/2019 07:28:35	0.110 ppm
	4/15/2019 07:26:18	0.630 ppm
	4/15/2019 07:33:53	0.040 ppm
	4/15/2019 07:33:07	0.010 ppm
	4/15/2019 07:36:16	4.730 ppm
	4/15/2019 07:42:12	0.240 ppm
	4/15/2019 07:40:12	0.290 ppm
	4/15/2019 07:44:34	0.580 ppm
	4/15/2019 07:47:42	0.050 ppm
	4/15/2019 07:47:03	0.160 ppm
	4/15/2019 07:49:12	0.030 ppm
	4/15/2019 07:46:40	0.120 ppm
	4/15/2019 07:55:05	1.190 ppm
	4/15/2019 07:53:59	0.040 ppm
Impacted Tank Farm	4/15/2019 07:48:52	0.040 ppm
	4/15/2019 07:57:18	0.220 ppm
	4/15/2019 07:58:24	0.060 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 7:00:00 AM to 4/15/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 07:55:05	Division E	29.7536050, -95.0909510	https://www.google.com/maps/search/?api=1&query=29.7536050,-95.0909510	1.190 ppm
4/15/2019 07:36:16	Division E	29.7381350, -95.0933970	https://www.google.com/maps/search/?api=1&query=29.7381350,-95.0933970	4.720 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/15/2019 7:05:17 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1400 Benzene Report
Attachments: 20190415_1300_Benzene_Report.pdf; 20190415_1400_Benzene_Report.pdf

All,

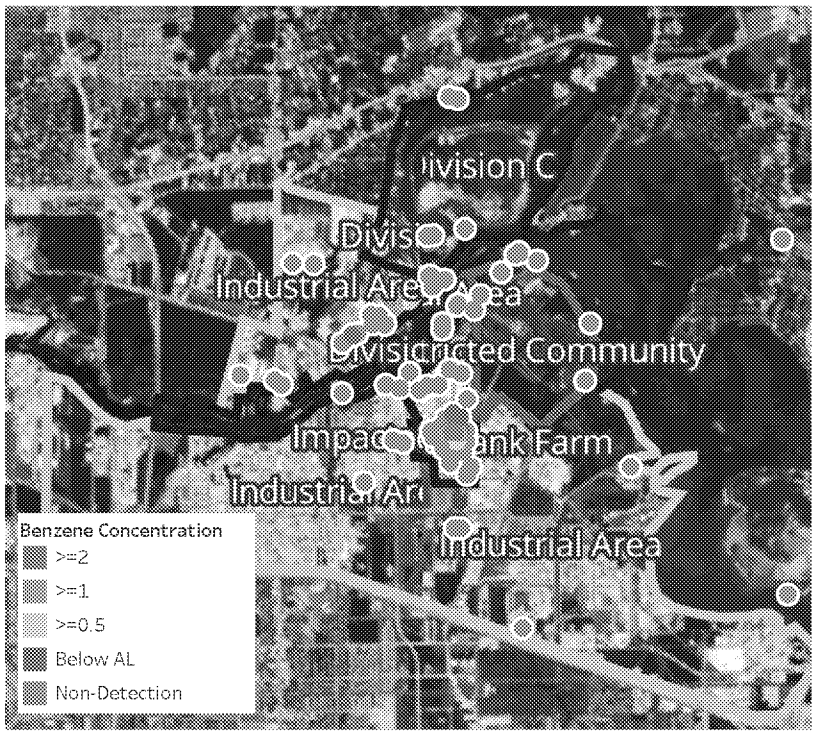
Please see the attached documents of benzene readings between 1200-1400. Let me know if you have any questions. Thanks!

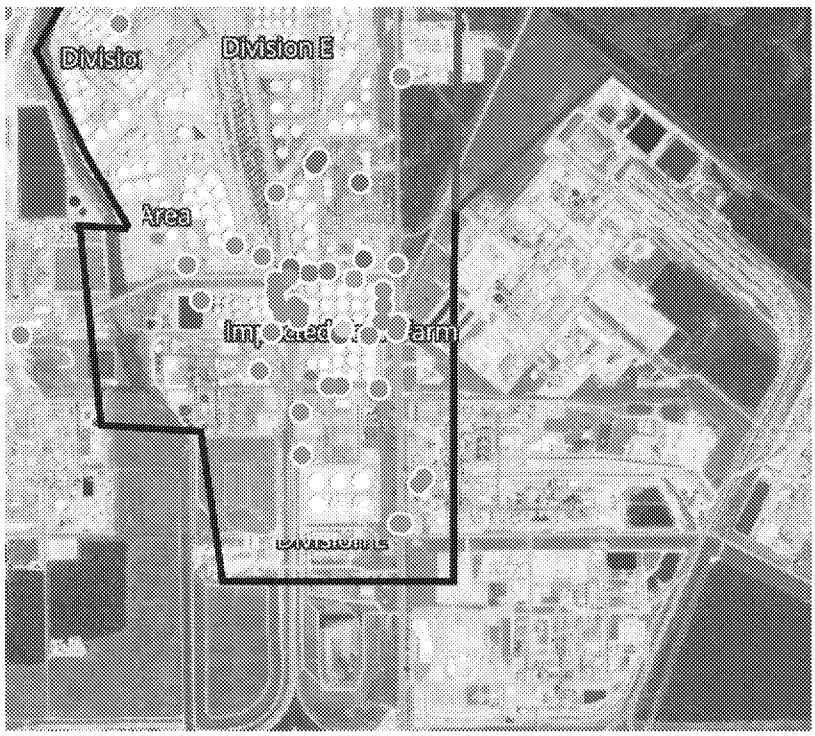
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 12:00:00 PM to 4/15/2019 1:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Above Grate	4/15/2019 12:03:58	0.175 ppm
Division E	4/15/2019 12:03:11	1.100 ppm
	4/15/2019 12:11:11	1.200 ppm
	4/15/2019 12:16:56	0.120 ppm
	4/15/2019 12:22:12	0.080 ppm
	4/15/2019 12:23:34	0.040 ppm
	4/15/2019 12:02:54	0.230 ppm
	4/15/2019 12:32:08	0.490 ppm
	4/15/2019 12:40:40	0.720 ppm
	4/15/2019 12:51:46	2.100 ppm
	4/15/2019 12:56:02	0.080 ppm
	4/15/2019 12:59:03	2.700 ppm
Impacted Tank Farm	4/15/2019 12:10:32	0.190 ppm
	4/15/2019 12:44:11	0.700 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 12:00:00 PM to 4/15/2019 1:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

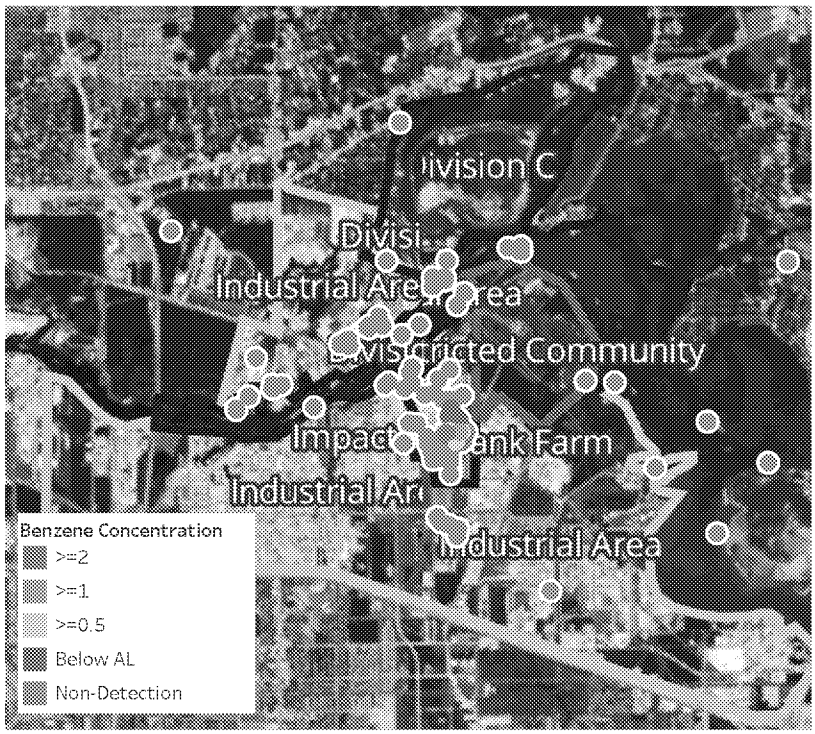
Recent Benzene Detections Greater than 1.00 ppm

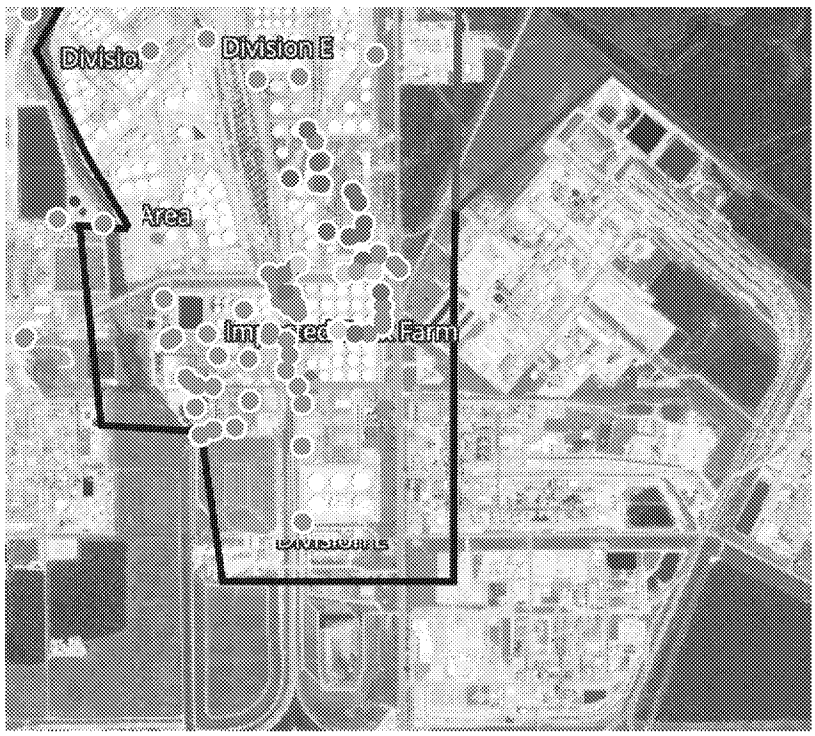
Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 12:59:03	Division E	29.7535540,-95.0920320	https://www.google.com/maps/search/?api=1&query=29.7535540,-95.0920320	2.700 ppm
4/15/2019 12:51:46	Division E	29.7533070,-95.0925790	https://www.google.com/maps/search/?api=1&query=29.7533070,-95.0925790	2.100 ppm
4/15/2019 12:11:11	Division E	29.7551510,-95.0912190	https://www.google.com/maps/search/?api=1&query=29.7551510,-95.0912190	1.200 ppm
4/15/2019 12:03:11	Division E	29.7551890,-95.0931900	https://www.google.com/maps/search/?api=1&query=29.7551890,-95.0931900	1.300 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 1:00:00 PM to 4/15/2019 2:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 13:00:37	0.090 ppm
	4/15/2019 13:05:46	0.030 ppm
	4/15/2019 13:02:26	0.520 ppm
	4/15/2019 13:06:11	0.080 ppm
	4/15/2019 13:09:46	0.930 ppm
	4/15/2019 13:12:33	0.210 ppm
	4/15/2019 13:16:35	0.020 ppm
	4/15/2019 13:15:37	0.140 ppm
	4/15/2019 13:19:42	0.050 ppm
	4/15/2019 13:20:47	0.030 ppm
	4/15/2019 13:23:38	0.020 ppm
	4/15/2019 13:33:56	2.430 ppm
	4/15/2019 13:11:18	0.500 ppm
	4/15/2019 13:09:09	1.210 ppm
	4/15/2019 13:41:57	0.610 ppm
	4/15/2019 13:46:57	0.130 ppm
	4/15/2019 13:50:24	0.150 ppm
	4/15/2019 13:49:50	0.350 ppm
	4/15/2019 13:53:31	0.120 ppm
Impacted Tank Farm	4/15/2019 13:01:45	0.650 ppm
	4/15/2019 13:14:27	0.150 ppm
	4/15/2019 13:24:29	0.010 ppm
	4/15/2019 13:43:46	0.480 ppm

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Reading Date
4/15/2019 1:00:00 PM to 4/15/2019 2:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 13:33:56	Division E	29.7532680, -95.0933690	https://www.google.com/maps/search/?api=1&query=29.7532680,-95.0933690	2.430 ppm
4/15/2019 13:09:09	Division E	29.7333490, -95.0911470	https://www.google.com/maps/search/?api=1&query=29.7333490,-95.0911470	1.410 ppm

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Message

From: Margaret Zalabak [MZalabak@responsegroupinc.com]
Sent: 4/15/2019 12:17:46 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: RE: Tank Update 4-15-19

Done! Thanks.

From: Patel, Anish [mailto:patel.anish@epa.gov]
Sent: Monday, April 15, 2019 7:08 AM
To: Margaret Zalabak <MZalabak@responsegroupinc.com>
Subject: RE: Tank Update 4-15-19

Hi Margaret,

Could you please add James Collins to this distribution list. His email is james.collins@westonsolutions.com

Thanks in advance,

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Margaret Zalabak <MZalabak@responsegroupinc.com>
Sent: Monday, April 15, 2019 7:00 AM
To: Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; Randy Wagner <rwagner@responsegroupinc.com>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; publicaffairshouston@uscg.mil; Mike Iacoboni <miacoboni@responsegroupinc.com>; mescoto@iterm.com; Spill12@tceq.texas.gov; Rodney.Reed@fmo.hctx.net; Fisher, Kelsey <fisher.kelsey@epa.gov>; mgaudet@iterm.com; Loesel, Matthew <loesel.matthew@epa.gov>; jenniffier.hawes@dps.texas.gov; Harrison.reback@bakerbotts.com; Michael.mcclendon@phs.hctx.net; Michael.schaffer@phs.hctx.net; matthew.kuryla@bakerbotts.com; Molly.cagle@bakerbotts.com; aileen.hooks@bakerbotts.com; CGITCResponse@gmail.com
Cc: Lance Lindgren <LLindgren@responsegroupinc.com>
Subject: Tank Update 4-15-19

Good Morning,

Attached, please find the Tank Status Update for 4/15/19.

Thanks,

Margaret Zalabak
The Response Group
13939 Telge Road
Cypress, Texas 77429
Office: 281-880-5000
Cell: 310-990-1071
www.responsegroupinc.com
Sign up for our Email Newsletter

Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/14/2019 1:12:16 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 0800 Benzene Reports
Attachments: 20190414_0700_Benzene_Report.pdf; 20190414_0800_Benzene_Report.pdf

All,

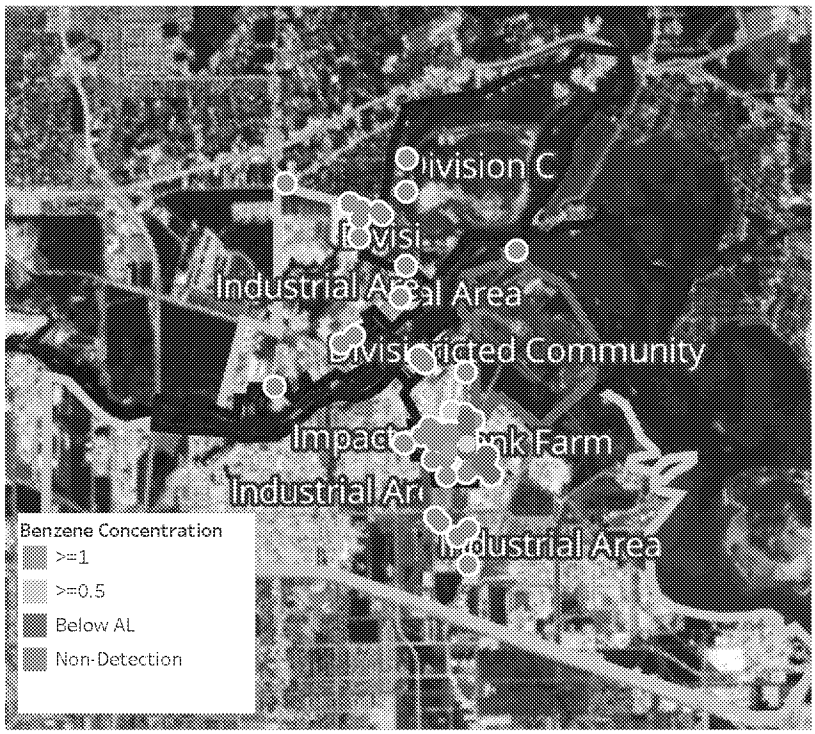
Please see the attached documents of benzene readings between 0600-0800. Let me know if you have any questions. Thanks!

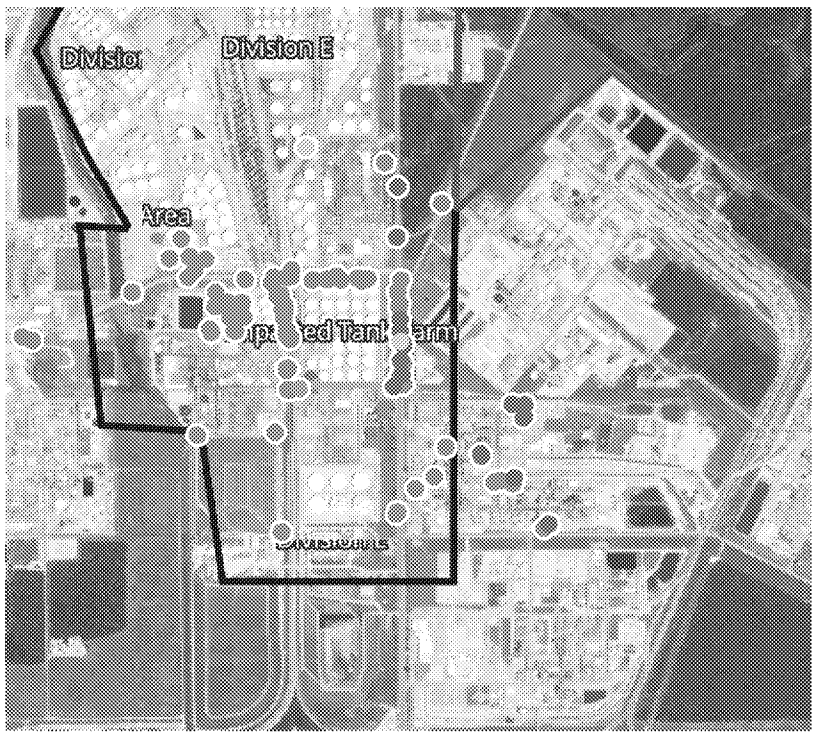
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 6:00:00 AM to 4/14/2019 7:12:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 06:16:28	0.110 ppm
	4/14/2019 06:31:49	0.020 ppm
	4/14/2019 06:35:31	0.110 ppm
	4/14/2019 06:38:05	0.390 ppm
	4/14/2019 06:44:55	0.280 ppm
	4/14/2019 06:41:54	0.930 ppm
	4/14/2019 06:41:00	0.535 ppm
	4/14/2019 06:50:28	0.280 ppm
	4/14/2019 06:53:05	0.100 ppm
	4/14/2019 07:01:26	0.230 ppm
	4/14/2019 07:01:35	1.280 ppm
	4/14/2019 07:04:55	0.040 ppm
Industrial Area	4/14/2019 06:55:53	0.060 ppm
	4/14/2019 06:58:32	ppm
	4/14/2019 06:48:37	0.020 ppm
	4/14/2019 06:54:05	0.070 ppm
	4/14/2019 06:36:51	0.020 ppm
	4/14/2019 06:32:22	0.030 ppm
	4/14/2019 06:50:56	0.070 ppm
	4/14/2019 06:52:22	0.070 ppm
	4/14/2019 06:47:12	0.040 ppm

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Reading Date
4/14/2019 6:00:00 AM to 4/14/2019 7:12:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 07:01:35	Division E	29.7502470,-95.0929020	https://www.google.com/maps/search/?api=1&query=29.7502470,-95.0929020	1.090 ppm

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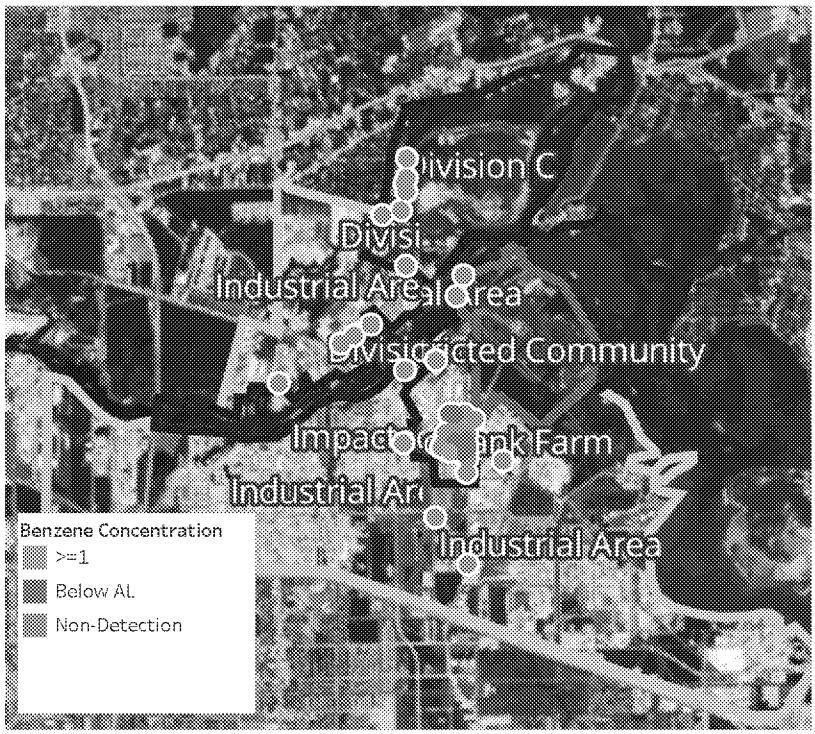
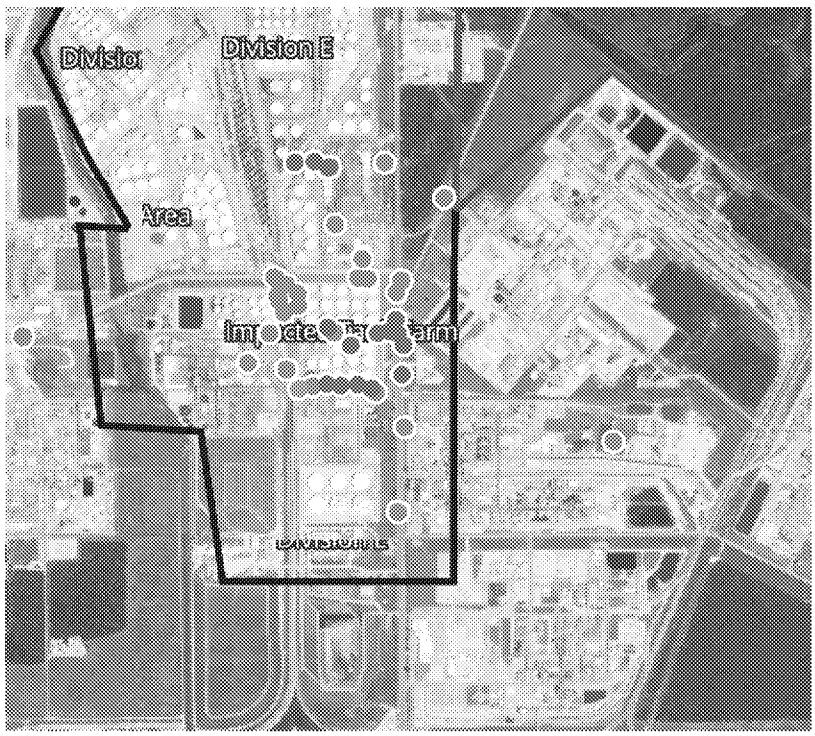
Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 7:00:00 AM to 4/14/2019 8:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 07:01:26	0.230 ppm
	4/14/2019 07:01:35	1.280 ppm
	4/14/2019 07:04:55	0.040 ppm
	4/14/2019 07:16:07	0.240 ppm
	4/14/2019 07:31:48	0.360 ppm
	4/14/2019 07:38:08	0.060 ppm
	4/14/2019 07:40:51	0.300 ppm
	4/14/2019 07:44:07	0.420 ppm
	4/14/2019 07:42:48	0.050 ppm
	4/14/2019 07:41:44	0.130 ppm
	4/14/2019 07:46:37	0.030 ppm
	4/14/2019 07:50:32	0.010 ppm
	4/14/2019 07:51:15	0.470 ppm
Impacted Tank Farm	4/14/2019 07:35:33	0.060 ppm
	4/14/2019 07:45:50	0.110 ppm
	4/14/2019 07:50:44	0.130 ppm
	4/14/2019 07:49:01	0.270 ppm

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Reading Date
4/14/2019 7:00:00 AM to 4/14/2019 8:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 07:01:35	Division E	29.7502470,-95.0929020	https://www.google.com/maps/search/?api=1&query=29.7502470,-95.0929020	1.090 ppm

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Message

From: Luke Blansett [lblansett@cteh.com]
Sent: 4/15/2019 5:10:46 PM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]; Jeremy Gueringer [jgueringer@cteh.com]
Subject: 1200 Benzene Report
Attachments: 20190415_1100_Benzene_Report.pdf; 20190415_1200_Benzene_Report.pdf

All,

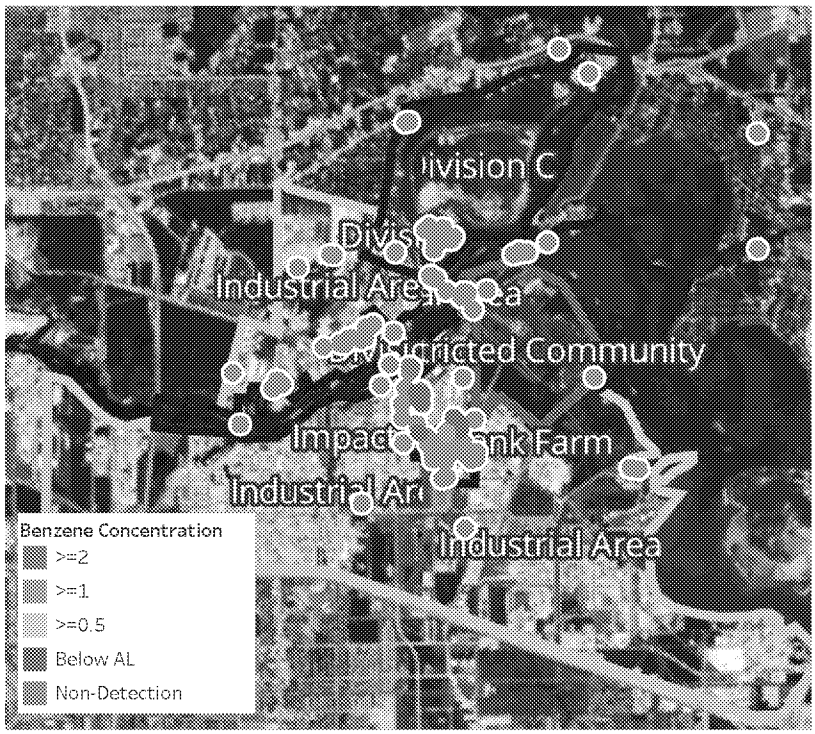
Please see the attached documents of benzene readings between 1000-1200. Let me know if you have any questions. Thanks!

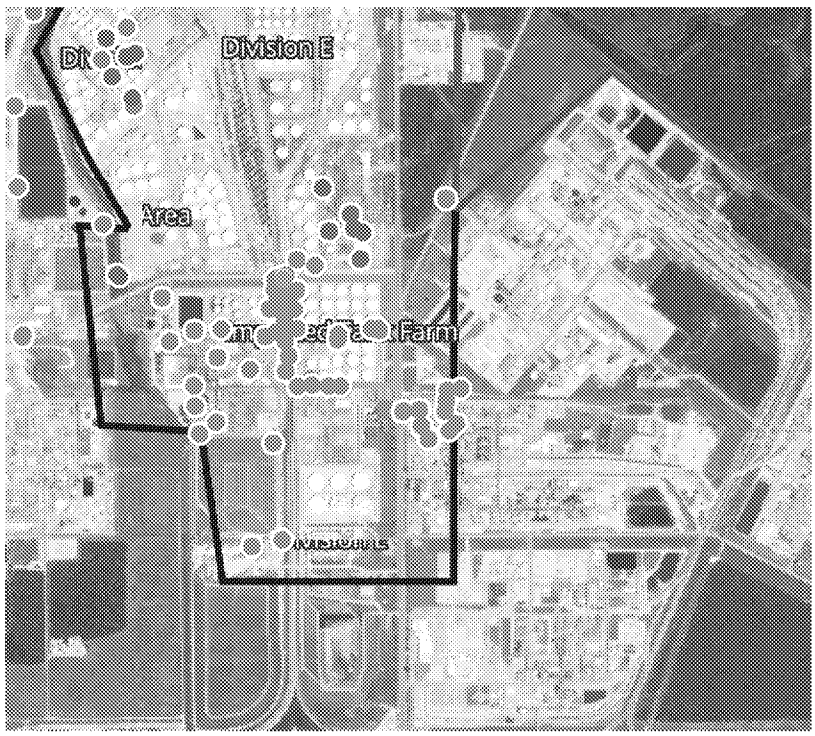
Sincerely,

Luke Blansett
Senior Project Coordinator
CTEH, LLC
Mobile 501-503-9734

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 10:00:00 AM to 4/15/2019 11:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/15/2019 10:54:59	3.090 ppm
	4/15/2019 10:37:11	3.800 ppm
Division E	4/15/2019 10:05:19	0.020 ppm
	4/15/2019 10:06:56	0.060 ppm
	4/15/2019 10:09:22	0.020 ppm
	4/15/2019 10:14:53	0.090 ppm
	4/15/2019 10:21:53	0.050 ppm
	4/15/2019 10:22:36	0.120 ppm
	4/15/2019 10:27:08	0.070 ppm
	4/15/2019 10:30:20	0.080 ppm
	4/15/2019 10:35:43	0.360 ppm
	4/15/2019 10:37:00	0.810 ppm
	4/15/2019 10:40:14	0.030 ppm
	4/15/2019 10:42:10	0.060 ppm
	4/15/2019 10:42:49	1.720 ppm
	4/15/2019 10:46:22	0.060 ppm
	4/15/2019 10:57:56	0.080 ppm

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Reading Date
4/15/2019 10:00:00 AM to 4/15/2019 11:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 10:54:59	Division B	29.7434640,-95.0998490	https://www.google.com/maps/search/?api=1&query=29.7434640,-95.0998490	3.090 ppm
4/15/2019 10:42:49	Division E	29.7331530,-95.0933660	https://www.google.com/maps/search/?api=1&query=29.7331530,-95.0933660	1.720 ppm
4/15/2019 10:37:11	Division B	29.7455030,-95.0997530	https://www.google.com/maps/search/?api=1&query=29.7455030,-95.0997530	3.800 ppm

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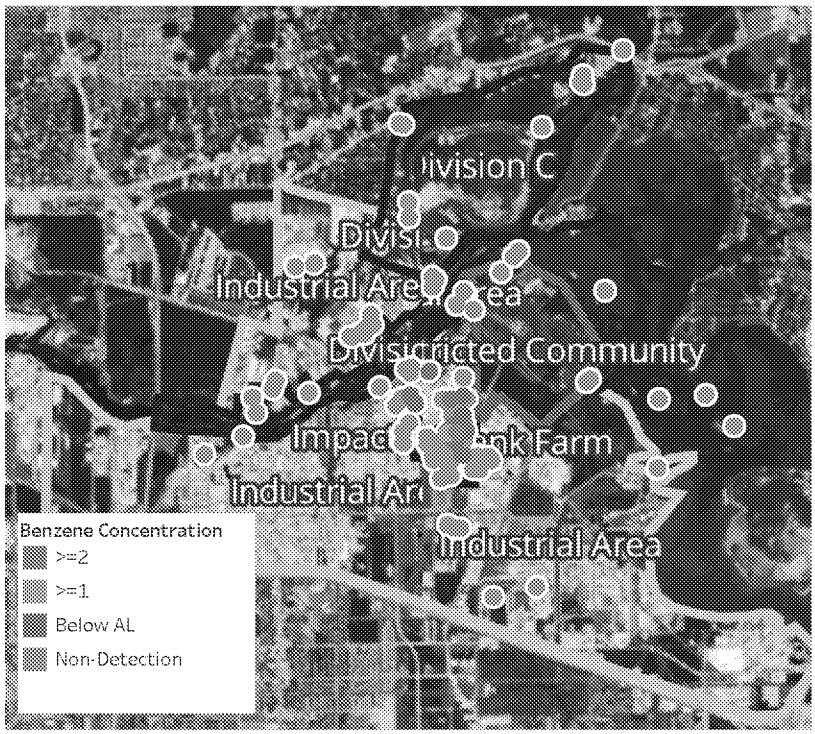
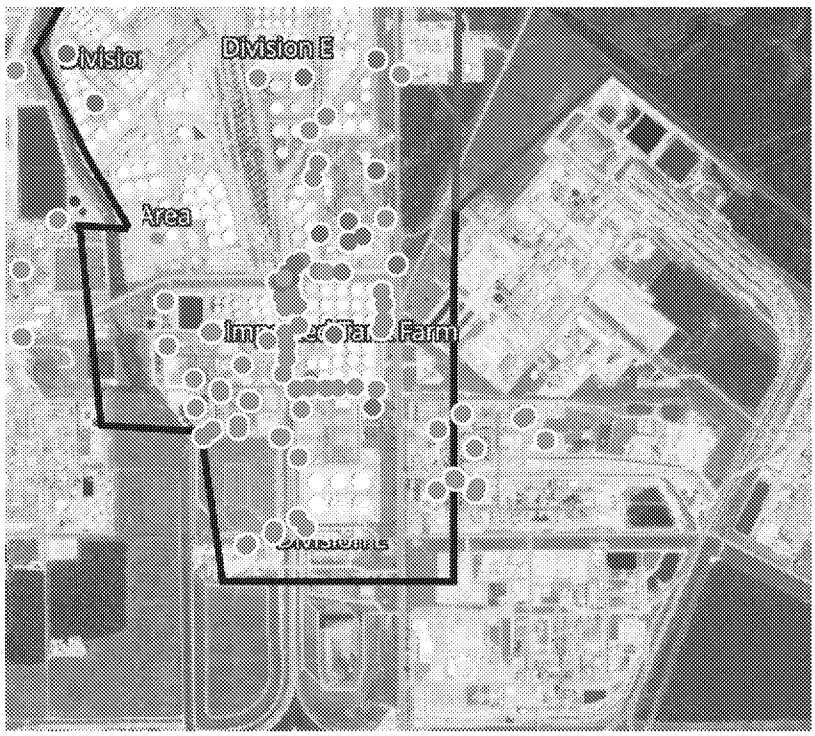
Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 11:00:00 AM to 4/15/2019 12:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/15/2019 11:11:08	0.020 ppm
Division E	4/15/2019 11:03:22	0.130 ppm
	4/15/2019 11:03:52	0.080 ppm
	4/15/2019 11:09:43	0.200 ppm
	4/15/2019 11:13:38	0.410 ppm
	4/15/2019 11:17:38	0.090 ppm
	4/15/2019 11:20:54	0.050 ppm
	4/15/2019 11:27:08	1.320 ppm
	4/15/2019 11:28:46	0.020 ppm
	4/15/2019 11:33:32	0.020 ppm
	4/15/2019 11:33:51	0.150 ppm
	4/15/2019 11:32:01	0.330 ppm
	4/15/2019 11:32:33	1.800 ppm
	4/15/2019 11:37:42	2.700 ppm
	4/15/2019 11:44:21	0.480 ppm
	4/15/2019 11:46:48	0.030 ppm
	4/15/2019 11:51:07	0.320 ppm
	4/15/2019 11:09:42	0.070 ppm
Impacted Tank Farm	4/15/2019 11:11:58	0.040 ppm
	4/15/2019 11:42:49	0.140 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 11:00:00 AM to 4/15/2019 12:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 11:37:42	Division E	29.7535390,-95.0915960	https://www.google.com/maps/search/?api=1&query=29.7535390,-95.0915960	2.700 ppm
4/15/2019 11:32:33	Division E	29.7533870,-95.0920730	https://www.google.com/maps/search/?api=1&query=29.7533870,-95.0920730	1.300 ppm
4/15/2019 11:27:08	Division E	29.7351750,-95.0933650	https://www.google.com/maps/search/?api=1&query=29.7351750,-95.0933650	1.300 ppm

Please Note: These updates display data from the 2nd 80's Fire site (Impacted Tank Farm), in the industrial areas surrounding the 2nd 80's Fire site (US Coast Guard Division E), within the Houston Ship Channel (US Coast Guard Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel (Industrial Area). Real-time air monitoring data for the surrounding communities are communicated daily in a separate report.

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 11:18:35 AM
To: gsterkel@iterm.com
CC: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
Subject: 0600 Benzene Update - Independence Road
Attachments: 20190415_0600_independence_benzene_report.pdf

Garry,

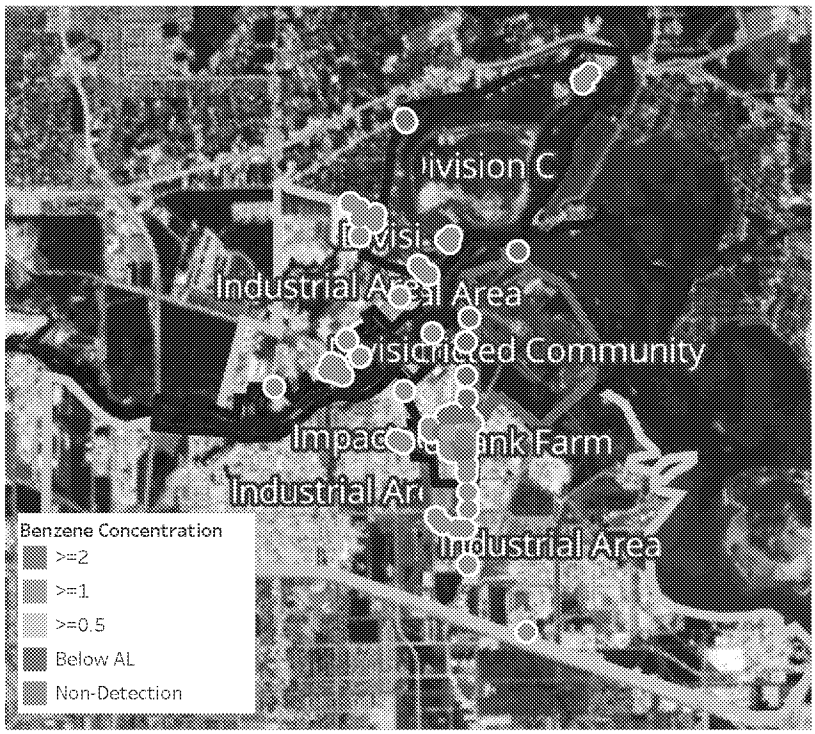
Attached is the benzene report for Independence Road from 0400 – 0600.

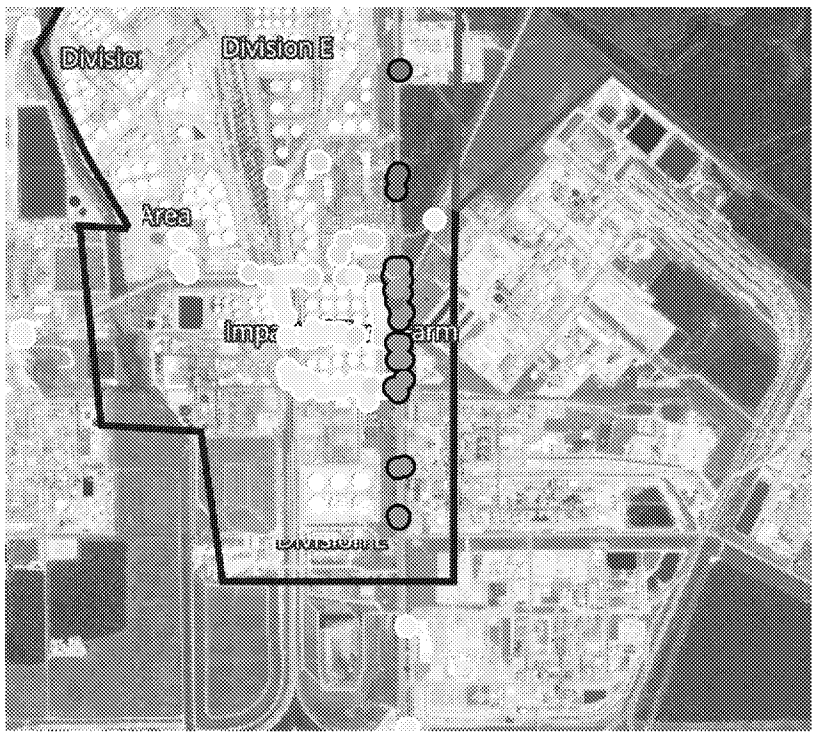
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 4:00:00 AM to 4/15/2019 6:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 04:30:29	0.060 ppm
	4/15/2019 04:33:42	0.310 ppm
	4/15/2019 04:34:45	1.100 ppm
	4/15/2019 04:36:21	1.390 ppm
	4/15/2019 04:39:58	1.940 ppm
	4/15/2019 04:39:48	0.770 ppm
	4/15/2019 04:57:10	0.350 ppm
	4/15/2019 05:00:47	1.360 ppm
	4/15/2019 05:05:03	0.210 ppm
	4/15/2019 05:10:05	0.050 ppm
	4/15/2019 05:13:49	0.010 ppm
	4/15/2019 05:16:29	0.070 ppm
	4/15/2019 05:23:09	0.220 ppm
	4/15/2019 05:53:21	0.060 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/14/2019 11:20:35 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; justin.sawyer.uscg@gmail.com; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190414_0600_benzene_report.pdf; 20190414_0500_benzene_report.pdf

All,

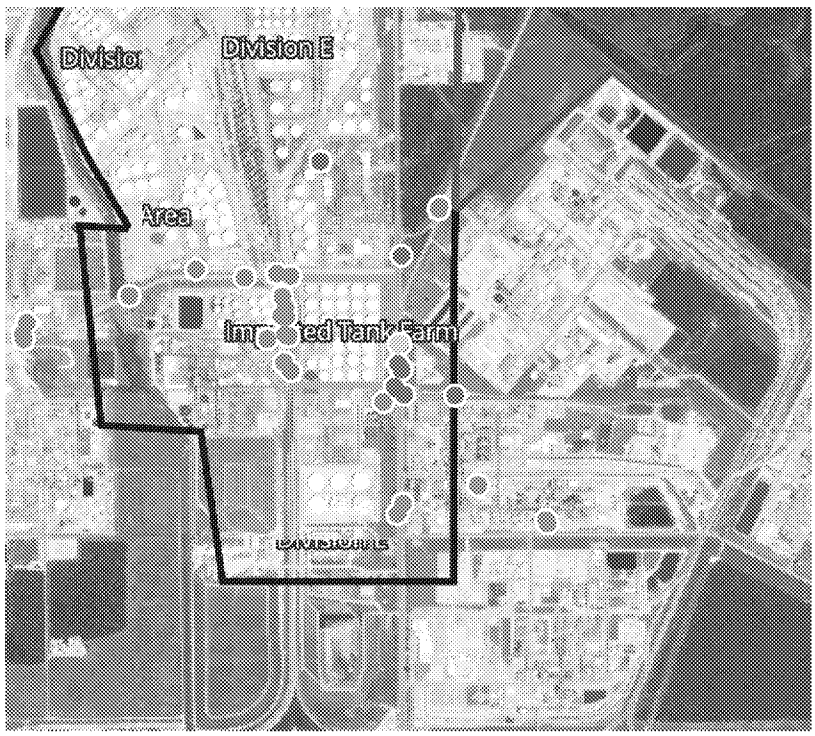
Attached are the benzene reports from 0400 – 0600.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 4:00:00 AM to 4/14/2019 5:00:00 AM



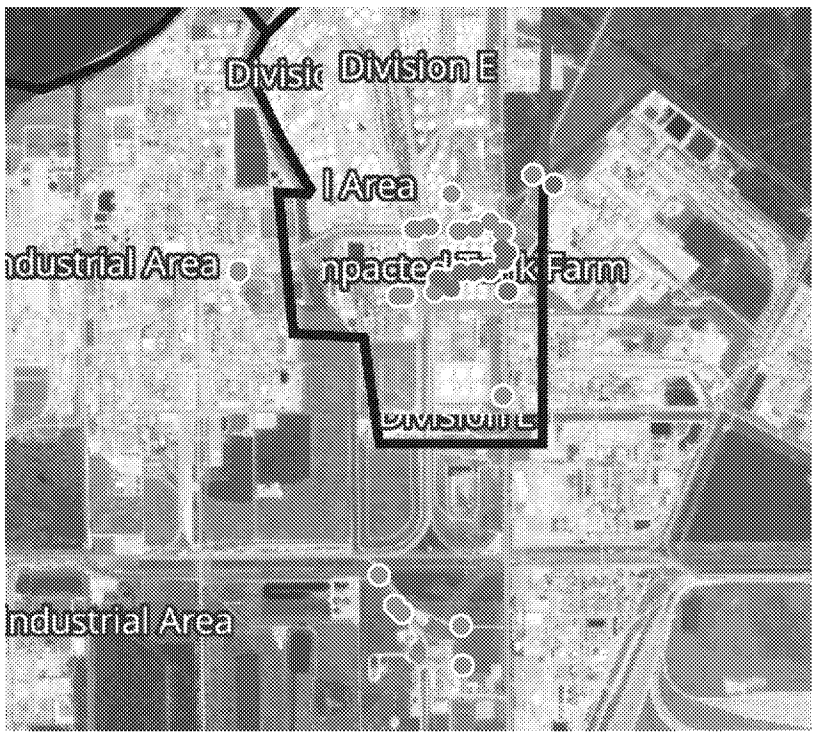
Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 04:00:38	0.0500 ppm
	4/14/2019 04:12:43	0.7100 ppm
	4/14/2019 04:08:52	0.3000 ppm
	4/14/2019 04:10:50	0.1500 ppm
	4/14/2019 04:08:15	0.4200 ppm
	4/14/2019 04:05:47	0.0700 ppm
	4/14/2019 04:12:55	0.3300 ppm
	4/14/2019 04:17:11	0.0300 ppm
	4/14/2019 04:15:35	0.0600 ppm
	4/14/2019 04:15:13	0.0700 ppm
	4/14/2019 04:21:42	0.0700 ppm
	4/14/2019 04:45:58	0.0800 ppm
	4/14/2019 04:58:34	0.1000 ppm
Industrial Area	4/14/2019 04:12:22	0.0500 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 5:00:00 AM to 4/14/2019 6:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/14/2019 05:06:31	0.3000 ppm
	4/14/2019 05:14:16	0.0900 ppm
	4/14/2019 05:24:27	0.3000 ppm
	4/14/2019 05:20:57	0.1600 ppm
	4/14/2019 05:24:24	0.2900 ppm
	4/14/2019 05:21:48	0.1000 ppm
	4/14/2019 05:42:50	0.4000 ppm
	4/14/2019 05:45:56	0.0900 ppm
	4/14/2019 05:49:48	0.0500 ppm
	4/14/2019 05:55:34	0.0800 ppm
Impacted Tank Farm	4/14/2019 05:33:03	0.0900 ppm
	4/14/2019 05:30:23	0.4000 ppm
	4/14/2019 05:36:33	0.3000 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 11:17:27 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0600 Benzene Update
Attachments: 20190415_0500_benzene_report.pdf; 20190415_0600_benzene_report.pdf

All,

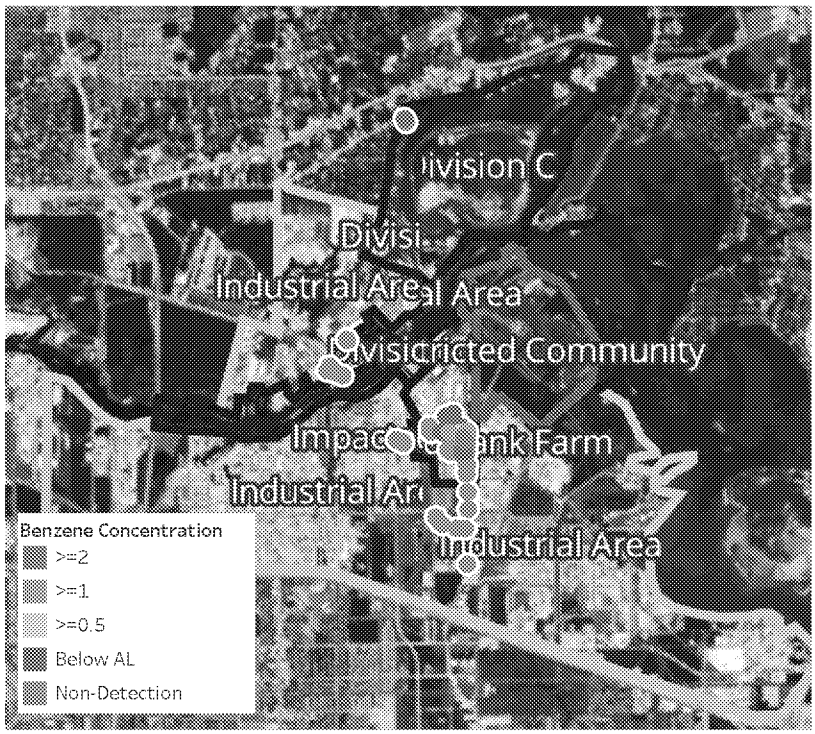
Attached are the benzene reports from 0400 – 0600.

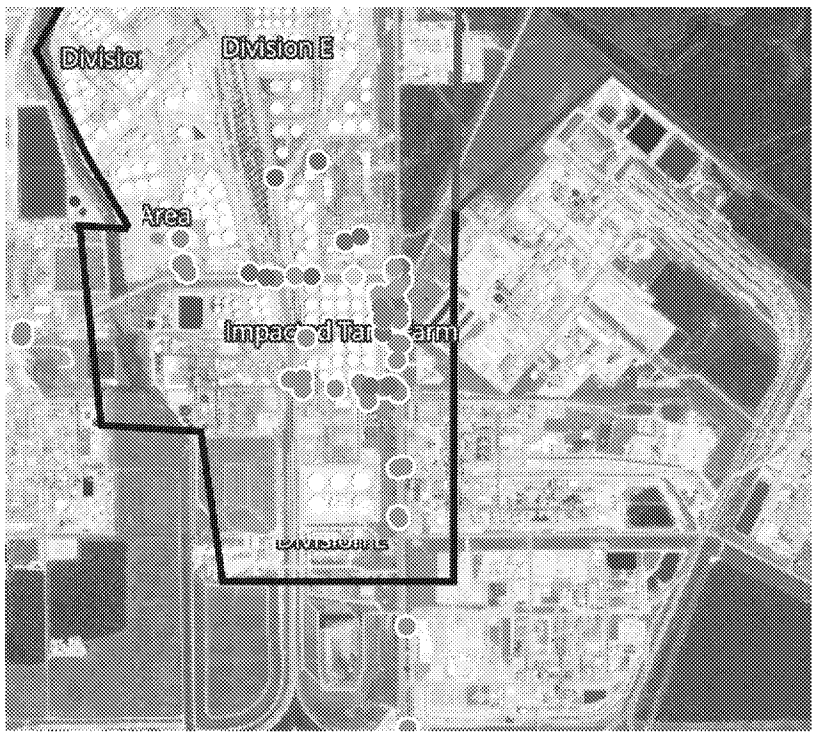
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 4:00:00 AM to 4/15/2019 5:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/15/2019 04:51:06	0.050 ppm
Division E	4/15/2019 04:06:13	0.110 ppm
	4/15/2019 04:12:35	0.780 ppm
	4/15/2019 04:30:29	0.060 ppm
	4/15/2019 04:33:42	0.310 ppm
	4/15/2019 04:34:45	1.100 ppm
	4/15/2019 04:20:59	0.320 ppm
	4/15/2019 04:37:35	0.080 ppm
	4/15/2019 04:24:01	0.100 ppm
	4/15/2019 04:36:21	1.390 ppm
	4/15/2019 04:36:48	0.510 ppm
	4/15/2019 04:34:40	1.280 ppm
	4/15/2019 04:39:58	1.940 ppm
	4/15/2019 04:39:48	0.770 ppm
	4/15/2019 04:43:12	1.810 ppm
	4/15/2019 04:43:34	0.260 ppm
	4/15/2019 04:34:01	0.225 ppm
	4/15/2019 04:29:38	1.300 ppm
	4/15/2019 04:47:09	0.230 ppm
	4/15/2019 04:46:15	0.110 ppm
	4/15/2019 04:58:19	0.080 ppm
	4/15/2019 04:57:10	0.350 ppm
	4/15/2019 04:47:22	7.780 ppm
	4/15/2019 04:50:23	0.370 ppm
	4/15/2019 04:55:43	0.520 ppm
	4/15/2019 04:52:42	3.720 ppm
	4/15/2019 04:59:01	0.150 ppm
Impacted Tank Farm	4/15/2019 04:34:39	1.150 ppm
	4/15/2019 04:36:55	0.530 ppm
	4/15/2019 04:42:01	3.230 ppm
	4/15/2019 04:50:29	1.100 ppm
	4/15/2019 04:46:46	5.780 ppm

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Reading Date
4/15/2019 4:00:00 AM to 4/15/2019 5:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

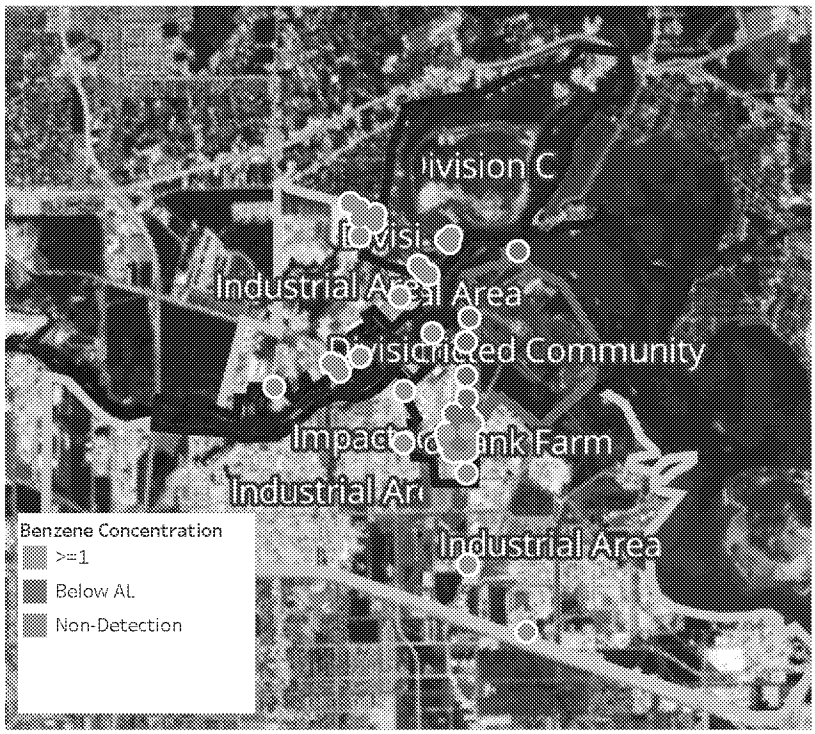
PRELIMINARY

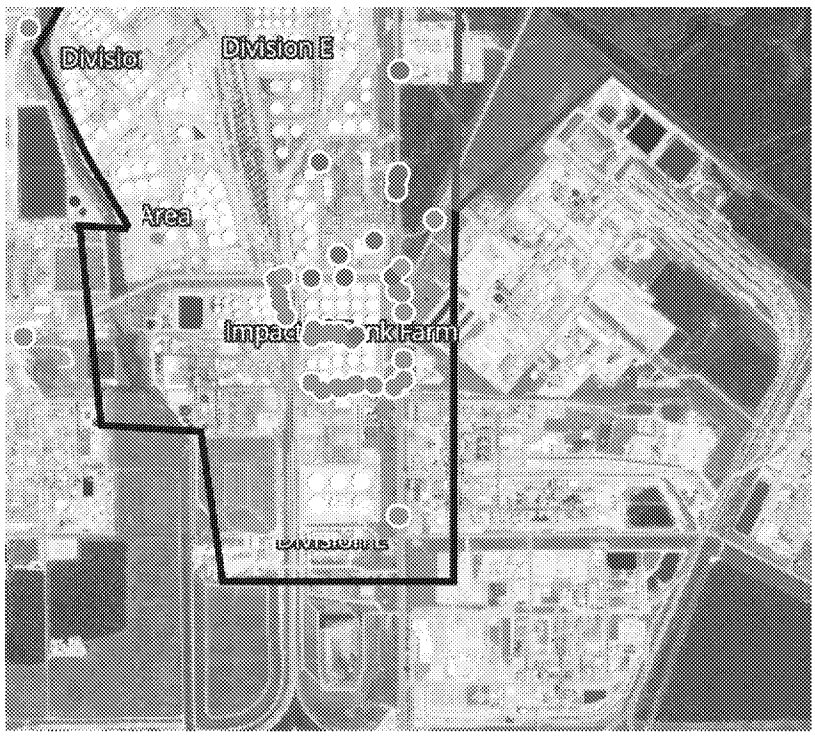
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 04:52:42	Division E	29.7320680,-95.0903050	https://www.google.com/maps/search/?api=1&query=29.7320680,-95.0903050	3.720 ppm
4/15/2019 04:50:29	Impacted Tank Farm	29.7320260,-95.0903160	https://www.google.com/maps/search/?api=1&query=29.7320260,-95.0903160	1.100 ppm
4/15/2019 04:47:22	Division E	29.7322050,-95.0902850	https://www.google.com/maps/search/?api=1&query=29.7322050,-95.0902850	7.780 ppm
4/15/2019 04:46:46	Impacted Tank Farm	29.7322230,-95.0903170	https://www.google.com/maps/search/?api=1&query=29.7322230,-95.0903170	5.780 ppm
4/15/2019 04:43:12	Division E	29.7324120,-95.0902610	https://www.google.com/maps/search/?api=1&query=29.7324120,-95.0902610	1.810 ppm
4/15/2019 04:42:01	Impacted Tank Farm	29.7324240,-95.0904220	https://www.google.com/maps/search/?api=1&query=29.7324240,-95.0904220	3.230 ppm
4/15/2019 04:39:58	Division E	29.7324580,-95.0899870	https://www.google.com/maps/search/?api=1&query=29.7324580,-95.0899870	1.940 ppm
4/15/2019 04:36:21	Division E	29.7328530,-95.0899590	https://www.google.com/maps/search/?api=1&query=29.7328530,-95.0899590	1.390 ppm
4/15/2019 04:34:45	Division E	29.7329560,-95.0898870	https://www.google.com/maps/search/?api=1&query=29.7329560,-95.0898870	1.300 ppm
4/15/2019 04:34:40	Division E	29.7327490,-95.0904440	https://www.google.com/maps/search/?api=1&query=29.7327490,-95.0904440	1.280 ppm
4/15/2019 04:34:39	Impacted Tank Farm	29.7326220,-95.0904120	https://www.google.com/maps/search/?api=1&query=29.7326220,-95.0904120	1.150 ppm
4/15/2019 04:29:38	Division E	29.7332340,-95.0930240	https://www.google.com/maps/search/?api=1&query=29.7332340,-95.0930240	1.300 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 5:00:00 AM to 4/15/2019 6:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 05:00:47	1.360 ppm
	4/15/2019 05:05:03	0.210 ppm
	4/15/2019 05:10:05	0.050 ppm
	4/15/2019 05:13:49	0.010 ppm
	4/15/2019 05:13:31	1.320 ppm
	4/15/2019 05:16:46	0.050 ppm
	4/15/2019 05:16:29	0.070 ppm
	4/15/2019 05:10:28	0.040 ppm
	4/15/2019 05:06:03	0.030 ppm
	4/15/2019 05:22:46	0.100 ppm
	4/15/2019 05:21:01	0.030 ppm
	4/15/2019 05:23:09	0.220 ppm
	4/15/2019 05:20:15	0.370 ppm
	4/15/2019 05:26:53	0.060 ppm
	4/15/2019 05:34:31	0.060 ppm
	4/15/2019 05:40:26	0.030 ppm
	4/15/2019 05:47:13	0.020 ppm
	4/15/2019 05:53:21	0.060 ppm
Impacted Tank Farm	4/15/2019 05:11:57	0.040 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 5:00:00 AM to 4/15/2019 6:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 05:13:31	Division E	29.7532250, -95.0933600	https://www.google.com/maps/search/?api=1&query=29.7532250,-95.0933600	3.52000 ppm
4/15/2019 05:00:47	Division E	29.7334600, -95.0897830	https://www.google.com/maps/search/?api=1&query=29.7334600,-95.0897830	3.36000 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 9:16:18 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0400 Benzene Update
Attachments: 20190415_0300_benzene_report.pdf; 20190415_0400_benzene_report.pdf

All,

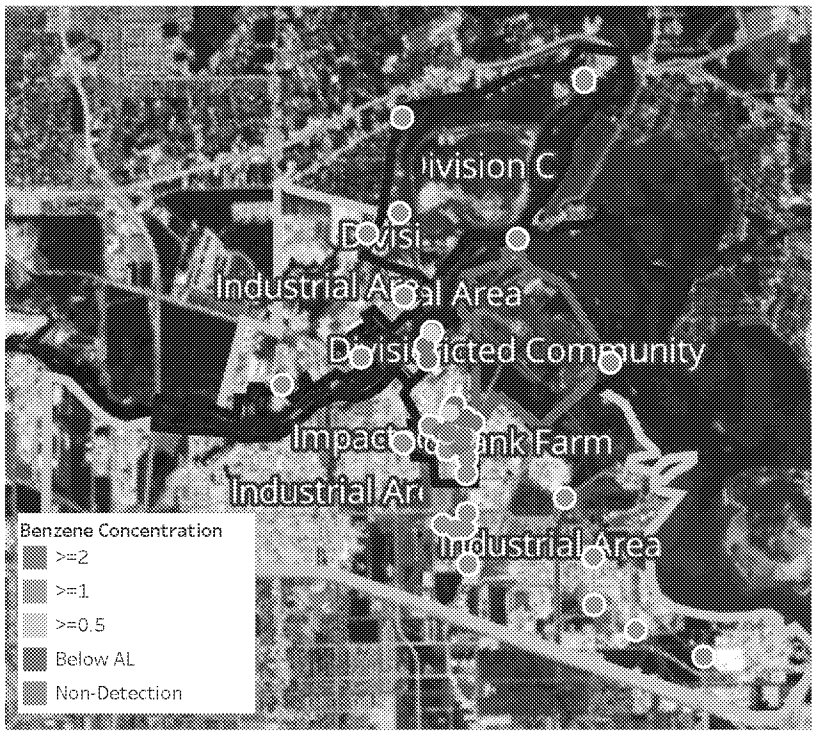
Attached are the benzene reports from 0200 – 0400.

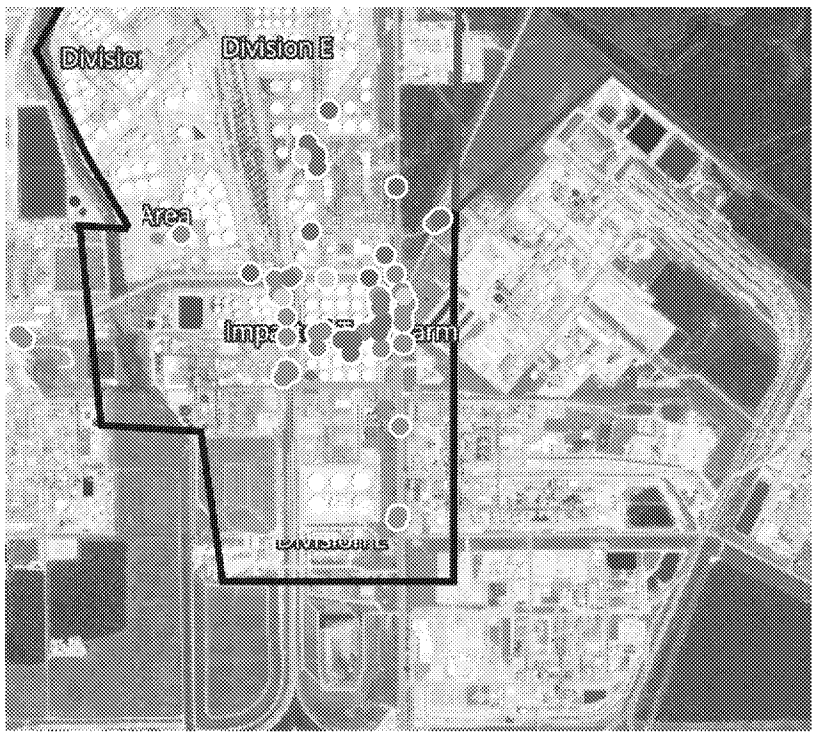
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 2:00:00 AM to 4/15/2019 3:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 02:05:10	0.240 ppm
	4/15/2019 02:02:38	0.210 ppm
	4/15/2019 02:05:06	0.310 ppm
	4/15/2019 02:02:41	0.175 ppm
	4/15/2019 02:07:24	0.600 ppm
	4/15/2019 02:16:45	0.280 ppm
	4/15/2019 02:23:03	0.600 ppm
	4/15/2019 02:22:17	0.060 ppm
	4/15/2019 02:25:23	0.030 ppm
	4/15/2019 02:19:13	0.310 ppm
	4/15/2019 02:29:38	0.060 ppm
	4/15/2019 02:27:50	0.225 ppm
	4/15/2019 02:31:54	0.150 ppm
	4/15/2019 02:39:40	0.350 ppm
	4/15/2019 02:28:48	1.460 ppm
	4/15/2019 02:34:13	0.800 ppm
	4/15/2019 02:48:08	0.225 ppm
	4/15/2019 02:58:40	0.875 ppm
	4/15/2019 02:55:38	0.375 ppm
	4/15/2019 02:51:12	0.250 ppm
	4/15/2019 02:47:28	6.960 ppm
	4/15/2019 02:58:52	0.050 ppm
	4/15/2019 02:52:35	0.550 ppm
Impacted Tank Farm	4/15/2019 02:17:24	0.170 ppm
	4/15/2019 02:24:31	0.320 ppm
	4/15/2019 02:40:29	1.890 ppm
	4/15/2019 02:47:23	2.400 ppm
	4/15/2019 02:20:10	0.270 ppm
	4/15/2019 02:28:17	0.030 ppm
	4/15/2019 02:46:31	2.290 ppm
	4/15/2019 02:31:45	0.030 ppm
	4/15/2019 02:41:04	2.770 ppm
	4/15/2019 02:36:08	4.580 ppm
	4/15/2019 02:36:00	4.980 ppm
	4/15/2019 02:20:40	0.160 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 2:00:00 AM to 4/15/2019 3:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

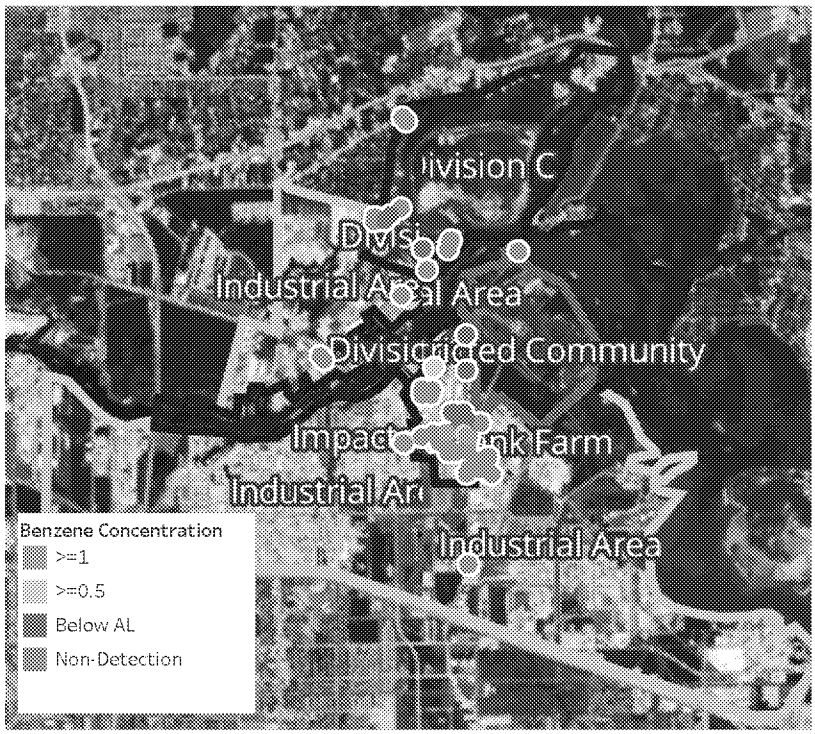
PRELIMINARY

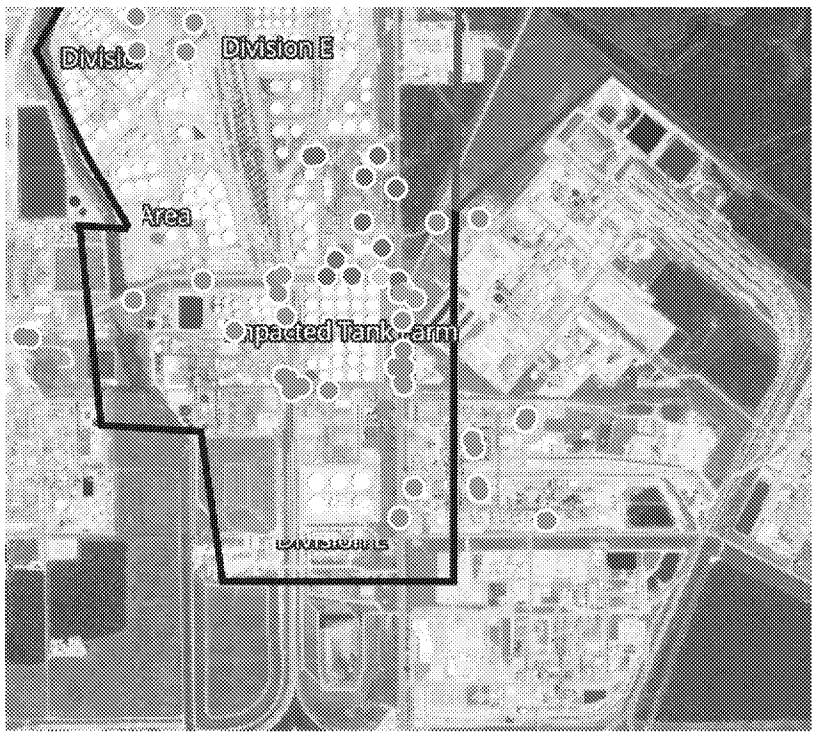
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 02:47:28	Division E	29.7321680,-95.0932090	https://www.google.com/maps/search/?api=1&query=29.7321680,-95.0932090	6.960 ppm
4/15/2019 02:47:23	Impacted Tank Farm	29.7320160,-95.0903840	https://www.google.com/maps/search/?api=1&query=29.7320160,-95.0903840	2.400 ppm
4/15/2019 02:46:31	Impacted Tank Farm	29.7324140,-95.0904130	https://www.google.com/maps/search/?api=1&query=29.7324140,-95.0904130	2.290 ppm
4/15/2019 02:41:04	Impacted Tank Farm	29.7324160,-95.0904240	https://www.google.com/maps/search/?api=1&query=29.7324160,-95.0904240	2.770 ppm
4/15/2019 02:40:29	Impacted Tank Farm	29.7327220,-95.0904990	https://www.google.com/maps/search/?api=1&query=29.7327220,-95.0904990	1.890 ppm
4/15/2019 02:36:08	Impacted Tank Farm	29.7325890,-95.0904340	https://www.google.com/maps/search/?api=1&query=29.7325890,-95.0904340	4.580 ppm
4/15/2019 02:36:00	Impacted Tank Farm	29.7324000,-95.0904290	https://www.google.com/maps/search/?api=1&query=29.7324000,-95.0904290	4.990 ppm
4/15/2019 02:28:48	Division E	29.7332530,-95.0930560	https://www.google.com/maps/search/?api=1&query=29.7332530,-95.0930560	1.450 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 3:00:00 AM to 4/15/2019 4:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division B	4/15/2019 03:12:58	0.690 ppm
Division C	4/15/2019 03:24:31	0.250 ppm
	4/15/2019 03:00:07	0.150 ppm
	4/15/2019 03:11:43	0.150 ppm
Division E	4/15/2019 03:02:49	0.290 ppm
	4/15/2019 03:10:20	1.330 ppm
	4/15/2019 03:10:19	1.920 ppm
	4/15/2019 03:03:43	0.790 ppm
	4/15/2019 03:11:57	0.150 ppm
	4/15/2019 03:17:58	0.020 ppm
	4/15/2019 03:16:51	1.970 ppm
	4/15/2019 03:17:55	0.300 ppm
	4/15/2019 03:14:37	0.150 ppm
	4/15/2019 03:10:32	0.180 ppm
	4/15/2019 03:21:45	0.040 ppm
	4/15/2019 03:07:36	0.300 ppm
	4/15/2019 03:22:18	0.060 ppm
	4/15/2019 03:23:47	0.360 ppm
	4/15/2019 03:26:22	0.520 ppm
	4/15/2019 03:27:42	0.030 ppm
	4/15/2019 03:21:43	0.070 ppm
	4/15/2019 03:26:04	0.030 ppm
	4/15/2019 03:30:51	0.420 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 3:00:00 AM to 4/15/2019 4:00:00 AM

Benzene Action Level Concentration (ppm)
>=1

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 03:16:51	Division E	29.7532510,-95.0934050	https://www.google.com/maps/search/?api=1&query=29.7532510,-95.0934050	1.9700 ppm
4/15/2019 03:10:20	Division E	29.7327870,-95.0896100	https://www.google.com/maps/search/?api=1&query=29.7327870,-95.0896100	1.3300 ppm
4/15/2019 03:10:19	Division E	29.7326190,-95.0893600	https://www.google.com/maps/search/?api=1&query=29.7326190,-95.0893600	1.9200 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 7:13:03 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 0200 Benzene Update
Attachments: 20190415_0100_benzene_report.pdf; 20190415_0200_benzene_report.pdf

All,

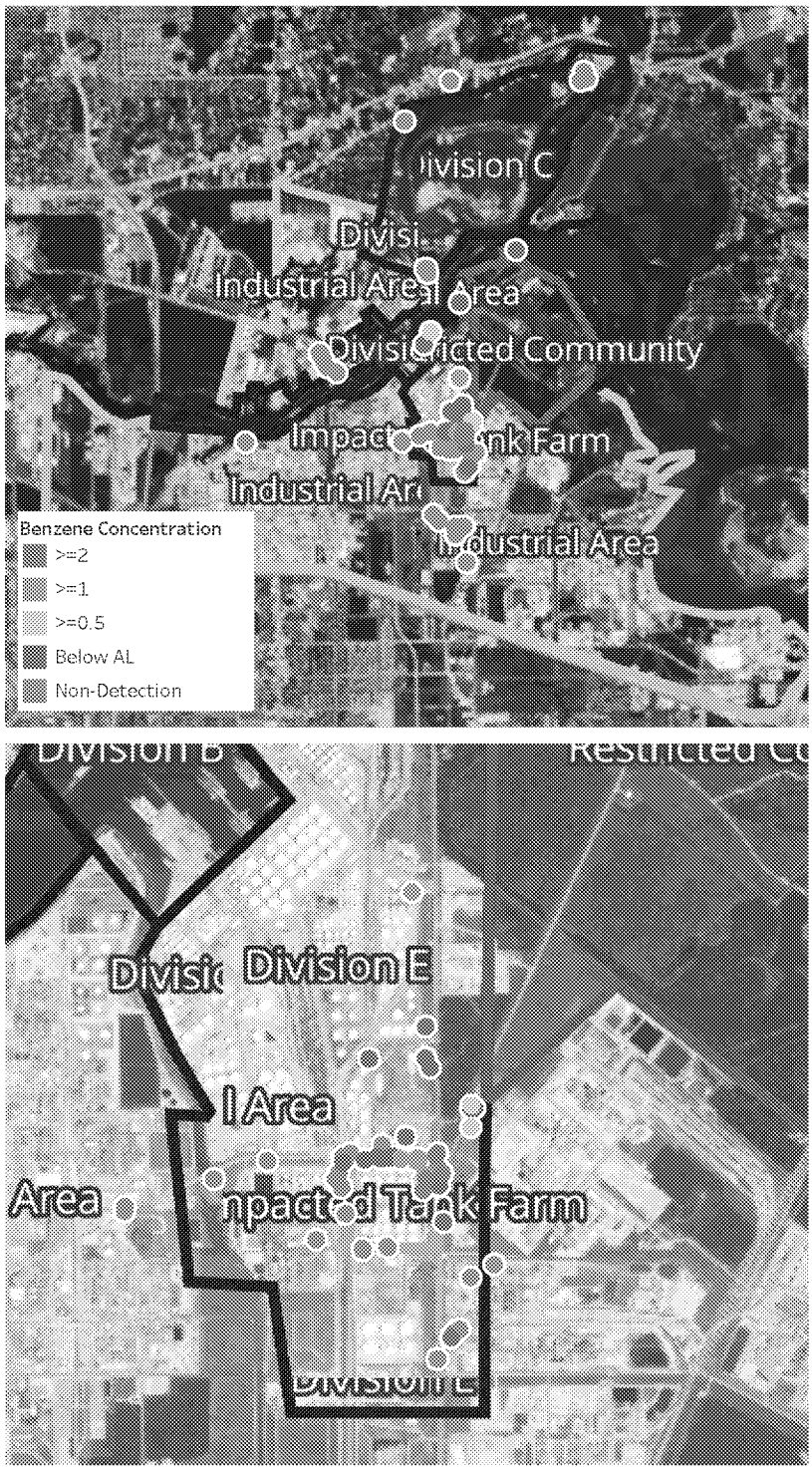
Attached are the benzene reports from 0000 – 0200.

Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 12:00:00 AM to 4/15/2019 1:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division E	4/15/2019 00:04:08	1.380 ppm
	4/15/2019 00:03:14	0.190 ppm
	4/15/2019 00:08:14	0.330 ppm
	4/15/2019 00:14:27	2.490 ppm
	4/15/2019 00:05:26	1.850 ppm
	4/15/2019 00:13:27	2.060 ppm
	4/15/2019 00:21:19	1.300 ppm
	4/15/2019 00:21:55	1.980 ppm
	4/15/2019 00:21:33	0.040 ppm
	4/15/2019 00:25:32	0.050 ppm
	4/15/2019 00:26:18	0.800 ppm
	4/15/2019 00:25:46	1.300 ppm
	4/15/2019 00:29:12	0.290 ppm
	4/15/2019 00:28:46	0.280 ppm
	4/15/2019 00:30:45	0.210 ppm
	4/15/2019 00:31:01	0.280 ppm
	4/15/2019 00:29:36	0.110 ppm
	4/15/2019 00:33:04	0.090 ppm
	4/15/2019 00:33:05	0.170 ppm
	4/15/2019 00:37:54	0.160 ppm
	4/15/2019 00:38:09	0.030 ppm
	4/15/2019 00:38:56	0.540 ppm
	4/15/2019 00:39:44	0.820 ppm
	4/15/2019 00:41:40	0.550 ppm
	4/15/2019 00:43:34	0.100 ppm
	4/15/2019 00:45:39	6.700 ppm
	4/15/2019 00:54:08	0.120 ppm
	4/15/2019 00:53:50	0.110 ppm
	4/15/2019 00:02:42	1.075 ppm
	4/15/2019 00:52:52	0.600 ppm
	4/15/2019 00:56:47	0.200 ppm
	4/15/2019 00:34:35	0.150 ppm
Impacted Tank Farm	4/15/2019 00:11:42	3.620 ppm
	4/15/2019 00:15:22	0.660 ppm
	4/15/2019 00:36:45	1.280 ppm
	4/15/2019 00:32:56	2.320 ppm
Industrial Area	4/15/2019 00:49:07	0.020 ppm
Restricted Community	4/15/2019 00:10:49	0.120 ppm
	4/15/2019 00:17:33	0.090 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 12:00:00 AM to 4/15/2019 1:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

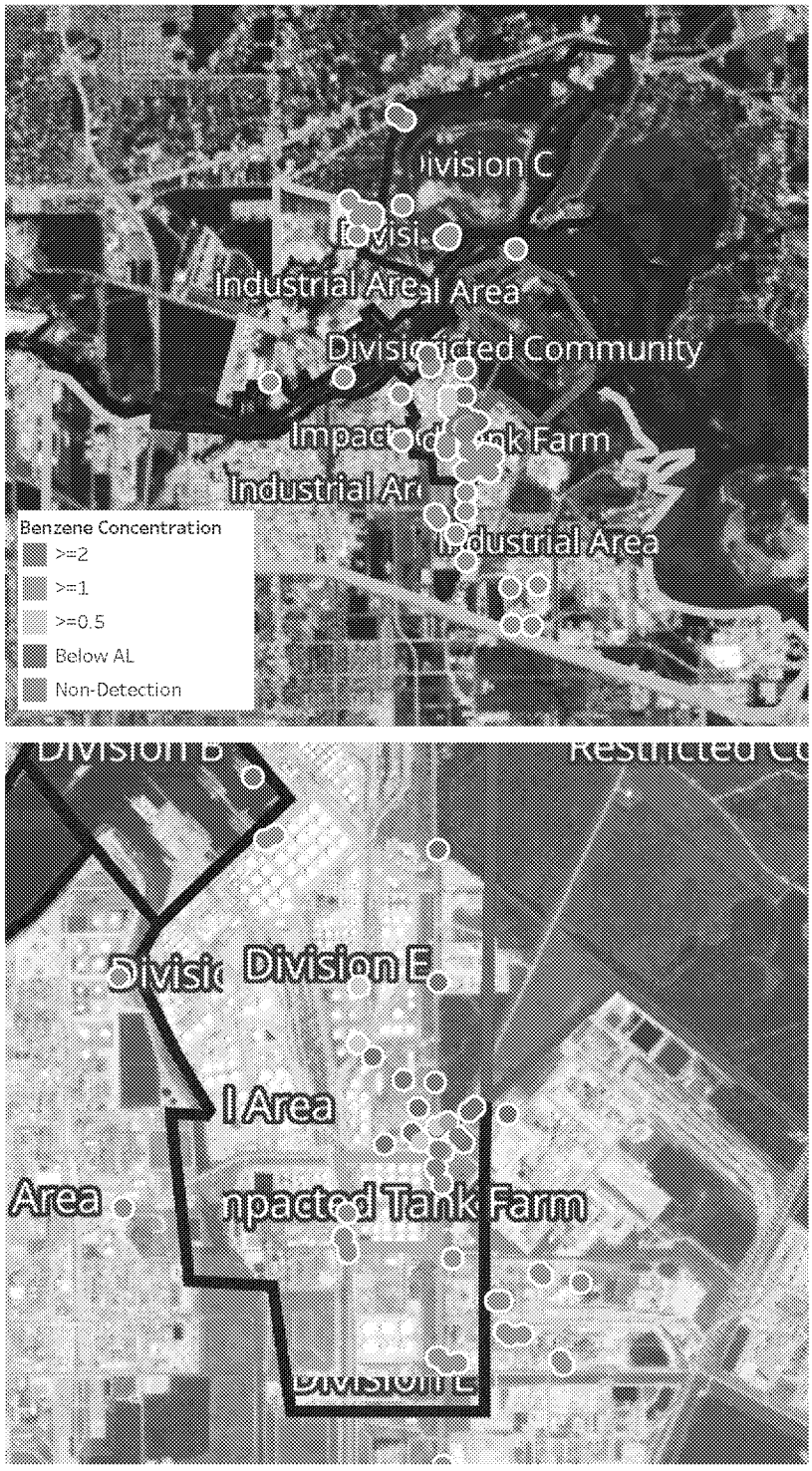
PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 00:45:39	Division E	29.7527426,-95.0897182	https://www.google.com/maps/search/?api=1&query=29.7527426,-95.0897182	6.700 ppm
4/15/2019 00:36:45	Impacted Tank Farm	29.7326800,-95.0903570	https://www.google.com/maps/search/?api=1&query=29.7326800,-95.0903570	1.480 ppm
4/15/2019 00:32:56	Impacted Tank Farm	29.7322010,-95.0904200	https://www.google.com/maps/search/?api=1&query=29.7322010,-95.0904200	2.320 ppm
4/15/2019 00:25:46	Division E	29.7531780,-95.0912270	https://www.google.com/maps/search/?api=1&query=29.7531780,-95.0912270	1.300 ppm
4/15/2019 00:21:55	Division E	29.7332070,-95.0906320	https://www.google.com/maps/search/?api=1&query=29.7332070,-95.0906320	1.830 ppm
4/15/2019 00:21:19	Division E	29.7531260,-95.0906760	https://www.google.com/maps/search/?api=1&query=29.7531260,-95.0906760	1.390 ppm
4/15/2019 00:14:27	Division E	29.7535030,-95.0899410	https://www.google.com/maps/search/?api=1&query=29.7535030,-95.0899410	2.490 ppm
4/15/2019 00:13:27	Division E	29.7333750,-95.0899000	https://www.google.com/maps/search/?api=1&query=29.7333750,-95.0899000	2.060 ppm
4/15/2019 00:11:42	Impacted Tank Farm	29.7325710,-95.0902840	https://www.google.com/maps/search/?api=1&query=29.7325710,-95.0902840	3.609 ppm
4/15/2019 00:05:26	Division E	29.7332090,-95.0905600	https://www.google.com/maps/search/?api=1&query=29.7332090,-95.0905600	1.650 ppm
4/15/2019 00:04:08	Division E	29.7532160,-95.0906560	https://www.google.com/maps/search/?api=1&query=29.7532160,-95.0906560	1.390 ppm
4/15/2019 00:02:42	Division E	29.7416130,-95.0908140	https://www.google.com/maps/search/?api=1&query=29.7416130,-95.0908140	1.075 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/15/2019 1:00:00 AM to 4/15/2019 2:00:00 AM



Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/15/2019 01:43:26	0.050 ppm
Division E	4/15/2019 01:06:38	0.240 ppm
	4/15/2019 01:06:07	0.280 ppm
	4/15/2019 01:03:13	4.230 ppm
	4/15/2019 01:05:15	0.140 ppm
	4/15/2019 01:03:34	0.225 ppm
	4/15/2019 01:14:37	0.625 ppm
	4/15/2019 01:06:04	0.040 ppm
	4/15/2019 01:14:35	1.040 ppm
	4/15/2019 01:16:34	2.130 ppm
	4/15/2019 01:01:58	1.160 ppm
	4/15/2019 01:04:09	3.840 ppm
	4/15/2019 01:12:58	0.040 ppm
	4/15/2019 01:20:47	0.270 ppm
	4/15/2019 01:23:38	0.050 ppm
	4/15/2019 01:31:56	0.080 ppm
	4/15/2019 01:25:33	0.210 ppm
	4/15/2019 01:35:30	0.570 ppm
	4/15/2019 01:34:08	0.340 ppm
	4/15/2019 01:21:47	0.230 ppm
	4/15/2019 01:16:15	1.220 ppm
	4/15/2019 01:23:37	0.170 ppm
	4/15/2019 01:35:55	1.060 ppm
	4/15/2019 01:34:43	0.190 ppm
	4/15/2019 01:38:42	0.110 ppm
	4/15/2019 01:20:04	0.525 ppm
	4/15/2019 01:39:03	0.160 ppm
	4/15/2019 01:50:58	0.360 ppm
	4/15/2019 01:41:58	0.050 ppm
	4/15/2019 01:48:01	0.080 ppm
	4/15/2019 01:33:29	0.680 ppm
	4/15/2019 01:33:25	0.490 ppm
	4/15/2019 01:14:09	1.070 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/15/2019 1:00:00 AM to 4/15/2019 2:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/15/2019 01:35:55	Division E	29.7345220,-95.0895180	https://www.google.com/maps/search/?api=1&query=29.7345220,-95.0895180	1.060 ppm
4/15/2019 01:16:34	Division E	29.7334510,-95.0896870	https://www.google.com/maps/search/?api=1&query=29.7334510,-95.0896870	2.130 ppm
4/15/2019 01:16:15	Division E	29.7354590,-95.0896640	https://www.google.com/maps/search/?api=1&query=29.7354590,-95.0896640	1.220 ppm
4/15/2019 01:14:35	Division E	29.7334660,-95.0896750	https://www.google.com/maps/search/?api=1&query=29.7334660,-95.0896750	1.040 ppm
4/15/2019 01:14:09	Division E	29.7334050,-95.0896750	https://www.google.com/maps/search/?api=1&query=29.7334050,-95.0896750	1.070 ppm
4/15/2019 01:04:09	Division E	29.7326910,-95.0899230	https://www.google.com/maps/search/?api=1&query=29.7326910,-95.0899230	3.840 ppm
4/15/2019 01:03:13	Division E	29.7328650,-95.0891600	https://www.google.com/maps/search/?api=1&query=29.7328650,-95.0891600	4.230 ppm
4/15/2019 01:01:58	Division E	29.7328680,-95.0899590	https://www.google.com/maps/search/?api=1&query=29.7328680,-95.0899590	1.160 ppm

Message

From: Loren Clawitter [lclawitter@cteh.com]
Sent: 4/15/2019 5:30:03 AM
To: spill12@tceq.texas.gov; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Michael Honeycutt [Michael.honeycutt@tceq.texas.gov]; Brandy.Brooks@tceq.texas.gov; Richard Chism [Richard.Chism@tceq.texas.gov]; sarah.k.rousseau@uscg.mil; mtsru.itc.hou@gmail.com; cgitcresponse@gmail.com; alex.shunda.uscg@gmail.com; jroberts@poha.com; wbuck@poha.com; ikebowl300@gmail.com; Patel, Anish [patel.anish@epa.gov]; Neil Daniell [NDaniell@css-inc.com]; scowan@css-inc.com; Spall, Amy [amy.spall@westonsolutions.com]; jeffrey.davis@glo.texas.gov
CC: itcdata [itcdata@cteh.com]; mtaylor@iterm.com; mgaudet@iterm.com; Scott Malm [smalm@cteh.com]; Pablo Sanchez-Soria [psoria@cteh.com]; April Steger [asteger@cteh.com]; Dana Szymkowicz [dszymkowicz@cteh.com]
Subject: 2400 Benzene Update
Attachments: 20190414_2300_benzene_report.pdf; 20190415_0000_benzene_report.pdf

All,

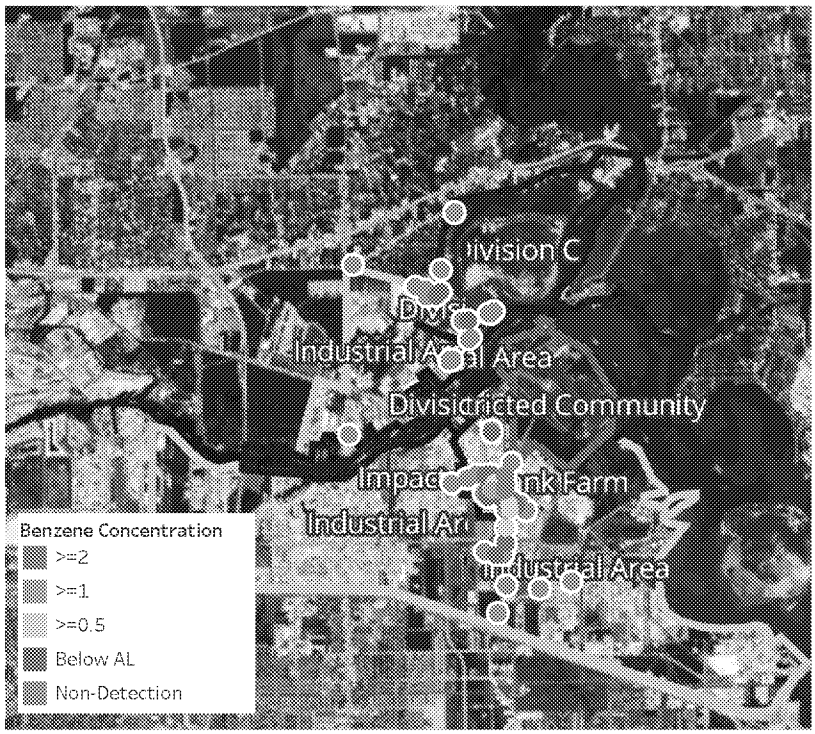
Attached are the benzene reports from 2200 – 2400.

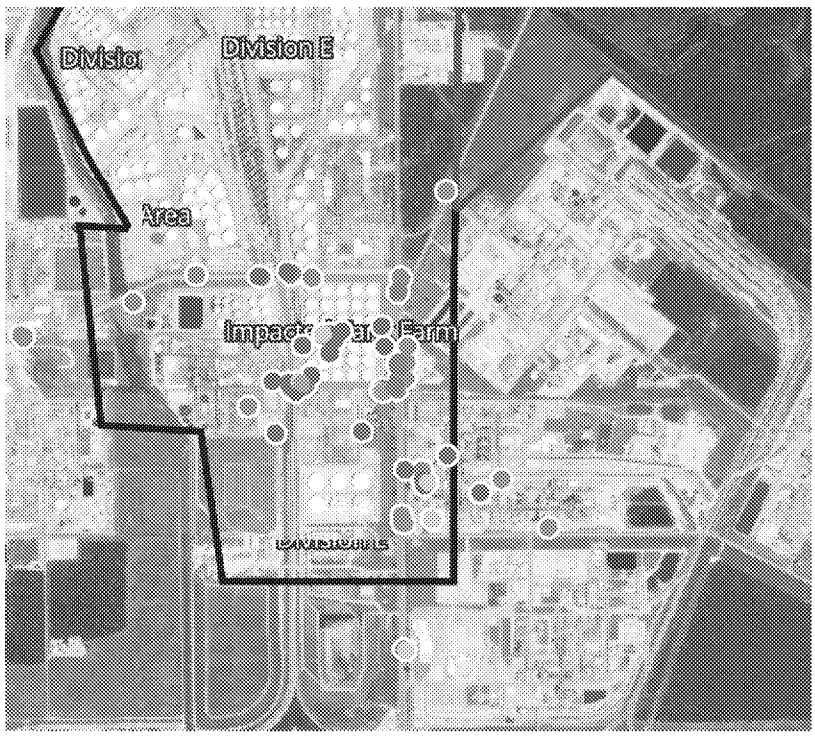
Thanks,

Loren Clawitter
IT Specialist II
CTEH, LLC
Office: 501-801-8500 | Mobile: 501-734-9342
Emergency Response 24-Hour Hotline: +1(866) 869-2834
lclawitter@cteh.com |www.cteh.com

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 10:00:00 PM to 4/14/2019 11:00:00 PM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/14/2019 22:43:56	0.150 ppm
	4/14/2019 22:33:46	0.050 ppm
	4/14/2019 22:23:15	0.050 ppm
Division E	4/14/2019 22:06:28	0.100 ppm
	4/14/2019 22:05:25	0.220 ppm
	4/14/2019 22:11:40	0.220 ppm
	4/14/2019 22:15:17	1.780 ppm
	4/14/2019 22:13:06	2.220 ppm
	4/14/2019 22:15:58	2.670 ppm
	4/14/2019 22:17:09	2.960 ppm
	4/14/2019 22:16:15	0.400 ppm
	4/14/2019 22:11:51	0.150 ppm
	4/14/2019 22:21:37	0.340 ppm
	4/14/2019 22:19:38	0.230 ppm
	4/14/2019 22:21:54	0.100 ppm
	4/14/2019 22:19:11	0.050 ppm
	4/14/2019 22:24:36	0.170 ppm
	4/14/2019 22:24:47	0.130 ppm
	4/14/2019 22:24:15	0.160 ppm
	4/14/2019 22:21:33	1.850 ppm
	4/14/2019 22:25:31	0.110 ppm
	4/14/2019 22:52:24	0.250 ppm
	4/14/2019 22:29:50	0.540 ppm
	4/14/2019 23:13:19	0.190 ppm
	4/14/2019 22:23:43	0.100 ppm
	4/14/2019 23:17:59	0.130 ppm
	4/14/2019 22:50:08	0.670 ppm
	4/14/2019 22:28:52	0.090 ppm
	4/14/2019 22:25:14	0.450 ppm
	4/14/2019 22:11:25	0.275 ppm
	4/14/2019 22:27:45	0.400 ppm
	4/14/2019 22:22:55	0.180 ppm
	4/14/2019 22:33:18	0.440 ppm
	4/14/2019 22:36:28	0.480 ppm
	4/14/2019 22:40:35	0.790 ppm
	4/14/2019 22:40:55	0.030 ppm
	4/14/2019 22:36:20	0.660 ppm
	4/14/2019 22:40:35	1.160 ppm
	4/14/2019 22:44:22	0.325 ppm
	4/14/2019 22:53:14	0.090 ppm
	4/14/2019 22:22:05	0.630 ppm
	4/14/2019 22:56:39	1.560 ppm
	4/14/2019 22:48:58	0.110 ppm
	4/14/2019 22:24:33	0.150 ppm
	4/14/2019 22:31:28	0.620 ppm
	4/14/2019 22:42:20	0.480 ppm
	4/14/2019 22:50:01	0.080 ppm
	4/14/2019 22:57:45	2.500 ppm
	4/14/2019 22:46:27	0.090 ppm
	4/14/2019 22:39:36	0.025 ppm
Impacted Tank Farm	4/14/2019 22:20:32	0.480 ppm
	4/14/2019 22:10:30	0.290 ppm
	4/14/2019 22:26:33	0.030 ppm
	4/14/2019 22:39:05	0.180 ppm
Industrial Area	4/14/2019 22:18:30	0.010 ppm
	4/14/2019 22:02:30	0.040 ppm
	4/14/2019 22:25:49	0.220 ppm
	4/14/2019 22:33:47	0.280 ppm
	4/14/2019 22:19:14	0.670 ppm
	4/14/2019 22:11:51	0.660 ppm
	4/14/2019 22:05:30	0.030 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 10:00:00 PM to 4/14/2019 11:00:00 PM

Benzene Action Level Concentration (ppm)
>=1 >=2

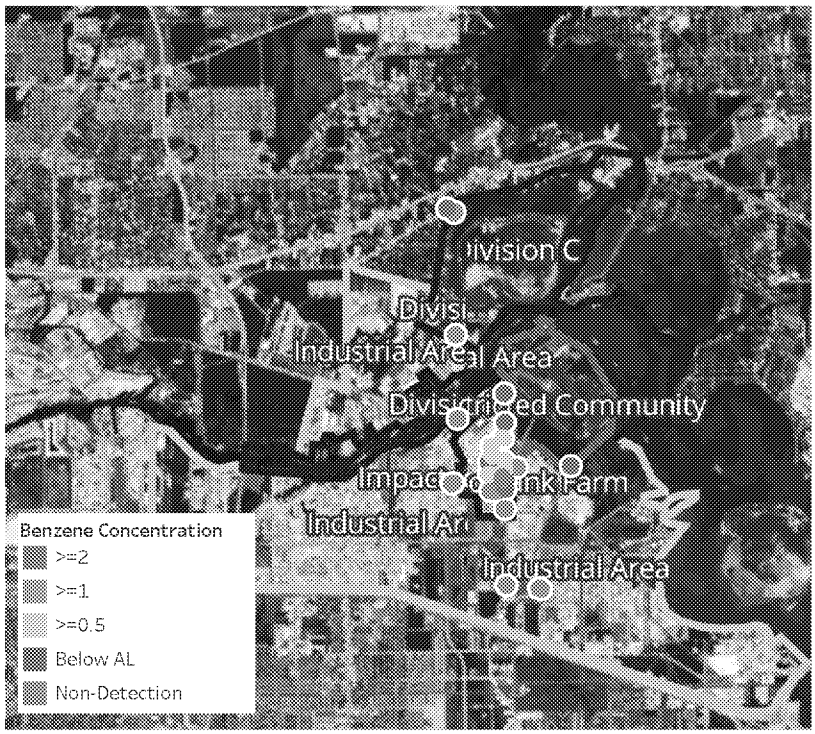
PRELIMINARY

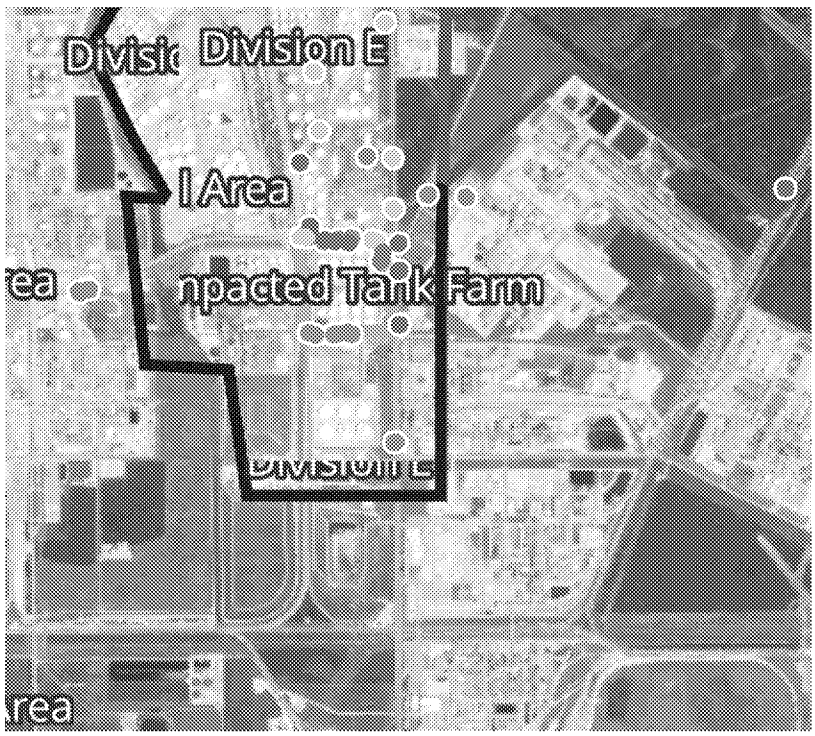
Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 22:57:45	Division E	29.7326470,-95.0898530	https://www.google.com/maps/search/?api=1&query=29.7326470,-95.0898530	2.500 ppm
4/14/2019 22:56:39	Division E	29.7328260,-95.0896890	https://www.google.com/maps/search/?api=1&query=29.7328260,-95.0896890	1.580 ppm
4/14/2019 22:40:35	Division E	29.7302750,-95.0926160	https://www.google.com/maps/search/?api=1&query=29.7302750,-95.0926160	1.160 ppm
4/14/2019 22:21:33	Division E	29.7301660,-95.0903430	https://www.google.com/maps/search/?api=1&query=29.7301660,-95.0903430	1.850 ppm
4/14/2019 22:17:09	Division E	29.7309530,-95.0898680	https://www.google.com/maps/search/?api=1&query=29.7309530,-95.0898680	2.960 ppm
4/14/2019 22:15:58	Division E	29.7306390,-95.0898390	https://www.google.com/maps/search/?api=1&query=29.7306390,-95.0898390	2.670 ppm
4/14/2019 22:15:17	Division E	29.7309530,-95.0898680	https://www.google.com/maps/search/?api=1&query=29.7309530,-95.0898680	1.750 ppm
4/14/2019 22:13:06	Division E	29.7302750,-95.0900010	https://www.google.com/maps/search/?api=1&query=29.7302750,-95.0900010	2.220 ppm

Preliminary Hand- Held Air Monitoring Locations | ITC Deer Park Tank Fire

Reading Date
4/14/2019 11:00:00 PM to 4/15/2019 12:00:00 AM





Recent Benzene Detections

Location Category	Reading Date	Concentration
Division C	4/14/2019 23:59:06	0.05 ppm
Division E	4/14/2019 23:00:26	1.56 ppm
	4/14/2019 23:05:24	0.16 ppm
	4/14/2019 23:04:05	0.03 ppm
	4/14/2019 23:10:33	0.59 ppm
	4/14/2019 23:12:14	0.08 ppm
	4/14/2019 23:17:13	0.16 ppm
	4/14/2019 23:17:09	0.50 ppm
	4/14/2019 23:25:54	0.25 ppm
	4/14/2019 23:35:58	0.06 ppm
	4/14/2019 23:35:54	0.60 ppm
	4/14/2019 23:38:16	0.18 ppm
	4/14/2019 23:40:34	0.72 ppm
	4/14/2019 23:41:48	0.51 ppm
	4/14/2019 23:37:34	0.90 ppm
	4/14/2019 23:42:32	0.12 ppm
	4/14/2019 23:45:23	0.08 ppm
	4/14/2019 23:44:20	0.54 ppm
	4/14/2019 23:49:52	0.05 ppm
	4/14/2019 23:48:17	6.30 ppm
	4/14/2019 23:52:50	0.15 ppm
	4/14/2019 23:02:16	0.98 ppm
	4/14/2019 23:36:01	16.30 ppm
	4/14/2019 23:51:05	0.13 ppm
	4/14/2019 23:54:12	0.10 ppm
	4/14/2019 23:58:46	0.84 ppm
	4/14/2019 23:58:18	0.09 ppm
	4/14/2019 23:47:13	0.86 ppm
	4/14/2019 23:58:39	0.59 ppm
Impacted Tank Farm	4/14/2019 23:22:32	0.20 ppm
	4/14/2019 23:15:50	4.06 ppm

This data has been provided expeditiously to ITC and regulatory agencies for informational and/or operational purposes only. Data reported within this summary is preliminary in nature and has not undergone complete QA/QC (quality assurance/quality control) process. Until this complete QA/QC process is completed, the locations of each reading are approximate in nature and subject to further refinement. As some readings may represent non-breathing zone measurements, the data reported herein may not be suitable to assess potential occupational exposure. Site Assessment readings are not representative of an individual's breathing zone (e.g., container head space, ground level, directly above product, etc.).

Reading Date
4/14/2019 11:00:00 PM to 4/15/2019 12:00:00 AM

Benzene Action Level Concentration (ppm)
>=1 >=2

PRELIMINARY

Recent Benzene Detections Greater than 1.00 ppm

Reading Date	Location Category	GPS	Google Maps URL	Concentration
4/14/2019 23:48:17	Division E	29.7525670,-95.0904000	https://www.google.com/maps/search/?api=1&query=29.7525670,-95.0904000	6.30 ppm
4/14/2019 23:36:01	Division E	29.7328437,-95.0903211	https://www.google.com/maps/search/?api=1&query=29.7328437,-95.0903211	16.20 ppm
4/14/2019 23:15:50	Impacted Tank Farm	29.7326030,-95.0903620	https://www.google.com/maps/search/?api=1&query=29.7326030,-95.0903620	4.06 ppm
4/14/2019 23:00:26	Division E	29.7326030,-95.0903730	https://www.google.com/maps/search/?api=1&query=29.7326030,-95.0903730	1.56 ppm

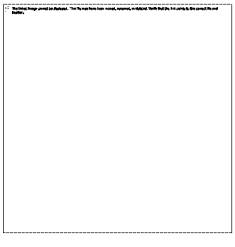
Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/18/2019 9:57:04 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Loesel, Matthew (loesel.matthew@epa.gov) [loesel.matthew@epa.gov]; Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]
Subject: FW: Latest Water Sampling
Attachments: ATT00001.txt; HS19040847 Gate 13 Ditch Results.pdf; HS19040928 Gate 13 Ditch Pelim Results.pdf; HS19040847 Gate 13 Ditch Final.pdf

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Thursday, April 18, 2019 4:55 PM
To: 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: Latest Water Sampling

See attached

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

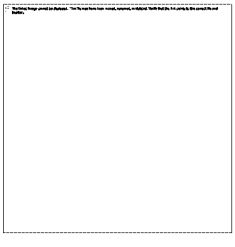
Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/13/2019 1:45:41 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]; Loesel, Matthew (loesel.matthew@epa.gov) [loesel.matthew@epa.gov]
Subject: FW: Latest Water Sampling
Attachments: ATT00001.txt; HS19040405 Gate 13 Ditch Results.pdf; HS19040500 Gate 13 Ditch Final.pdf; HS19040566 Gate 13 Ditch Final.pdf; HS19040566 Gate 13 Ditch VOC,COD OG Results.pdf; HS19040405 Gate 13 Ditch Final.pdf

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Saturday, April 13, 2019 8:38 AM
To: 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: Latest Water Sampling

Please see attached sampling results.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/11/2019 7:31:00 PM
To: rebecca.barrera@westonsolutions.com
Subject: Please print this email

From: Turner, Philip
Sent: Thursday, April 11, 2019 2:24 PM
To: Adams, Adam <Adams.Adam@epa.gov>; Smalley, Bryant <smalley.bryant@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>
Subject: RE: 2nd 80s Fire Decon Plan - 4/10/19 updated version (TCEQ Review Input No. 2)

Nothing additional.

Phil

From: Adams, Adam
Sent: Thursday, April 11, 2019 12:48 PM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>
Subject: Fwd: 2nd 80s Fire Decon Plan - 4/10/19 updated version (TCEQ Review Input No. 2)

Any comments?

Sent from my iPhone

Begin forwarded message:

> **From:** "spill12" <spill12@tceq.texas.gov>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>
> **Subject: FW: 2nd 80s Fire Decon Plan - 4/10/19 updated version (TCEQ Review Input No. 2)**
>
> Adam,
>
> Please see Nicole's comments on the Equipment Decon Plan and provide your feedback.
>
> Thank you,
>
> Anallely Salinas
> TCEQ- State on Scene Coordinator
> (512)965-2717

> **From:** Nicole Bealle
> **Sent:** Thursday, April 11, 2019 11:52 AM
> **To:** spill12 <spill12@tceq.texas.gov>

Cc: Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Bob Patton <bob.patton@tceq.texas.gov>; Kelly Cook <kelly.cook@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Guadalupe Quiroz <guadalupe.quiroz@tceq.texas.gov>
Subject: RE: 2nd 80s Fire Decon Plan - 4/10/19 updated version (TCEQ Review Input No. 2)

State OSC:

Please coordinate with the FOSC regarding the comments to be provided to ITC and let us know if there are questions.

Review of the updated *Fire Equipment Decon plan* included the following:

Remove the term 'product'. As noted in the SCAT plan review comments and other plans reviewed and commented on to date, the plan is using the word "product" to describe liquid incident materials, and consistency is needed in referencing these materials throughout the plans. Please review all plans to ensure the word "oil" is not used solely to describe the material being addressed with this response. At a minimum, plans and documents should be referencing it as "material", "recovered material, "chemical mixture" or "waste".

As previously requested in this plan and other plans, do not refer to the released mixture as 'product'.

General:

- The plan references an approved 'Waste Management Plan' in various locations. Note that a 'Waste Management Plan' has not yet been approved.
- In various locations, the plan refers to a "mutually agreed condition of cleanliness". Please revise the plan define the minimum standard of cleanliness. At a minimum, all waste and waste residues must be removed.
- The title indicates that this plan covers both decontamination and demobilization. Demobilization discussions appear to be limited to transport of assets and equipment from the ops area to the decon area, and company retrieval of decontaminated assets and equipment. Clarify whether there is a separate plan that addresses demobilization activities in more detail.

Section 4.0

- Where is the 'condition of cleanliness' defined or identified? Consider appending the referenced company-specific barge decon procedures to this plan.

Section 6

- Revise the plan to address protection of the Houston Ship Channel and environs when transporting items for decontamination from one side of the Ship Channel to the other. Booms and other long objects cannot be allowed to drip contamination into the waters.

- A bullet in this section references "Recovered Product". Revise the plan to clarify that decon waste sis to be managed as waste.

Section 7

- The first sentence states that "In accordance with the approved Demobilization Plan..." This appears to be a circular reference. The title of this plan indicates that it covers both decontamination and demobilization.

Section 7.2

- The two phases are not clear. There are 4 bullets, should these be grouped to reflect the two specific phases referenced?

- Is the decontamination pool sloped to facilitate collection of decontamination liquids? There is a statement that accumulated liquids will be pumped into vac trucks. Will this be a direct vacuum using the vac truck hoses?

- In the paragraph that indicates that an approved bio-degradable cleaning solution has not yet been identified – has there been any submittal of a cleaning material(s)? If not, when is it anticipated to be provided? Note that no decontamination described is to commence until there is approval by Unified Command (UC).

Section 9

- Section headings skipped Section 8. Please clarify whether this is a simple typo or indicates missing content.
- "Mechanical recovery equipment may require a breakdown..." Revise the plan to address this in more detail. Include procedures for equipment breakdown, minimum qualifications of technician performing this task, references to necessary reference technical documents/literature to minimize the likelihood of equipment damage during this process.
- Revise the plan to clarify the location of the boom collection site(s) and what procedures will be used to prevent/minimize/eliminate contamination at those locations.
- During the removal of the boom from the transport vessel, what steps are being taken to address any drips/releases that may occur while in transport, from the booms as they are removed from the vessels?
- This section notes that all boom will be returned to the owner. Does this include the boom identified as "damaged beyond repair?"
- The boom identified as "damaged beyond repair" will, according to the plan, be segregated. Please identify the method of segregation and containment as well as the management of the waste for classification and disposal.

Section 10

- Revise the plan to identify the specific public boat ramps in use.
- Revise the plan to provide additional detail about vessel staging operations.
- Reference Section 11 for details on generated decon water
- Will any waiting vessels be boomed and monitored for sheen? For any vessel that is not removed from the water for cleaning, what is the booming/capture protocol and/or clarify whether all vessels will be removed from the water for decontamination.

Section 14

- This activity involves working with hazardous waste. Revise this section to address pertinent OSHA and RCRA requirements for training.

Section 15

- Confined space entry may require supplied air under certain conditions. To minimize confusion, consider revising the plan to remove the reference to level C PPE for this activity, and reference the Health and Site Safety Plan instead.

Section 16

- Revise the plan to define the minimum standard of cleanliness. Any contamination by Hazardous Waste will require remediation action/spill response except for *de minimis* incidents (using RCRA definition of *de minimis*).

Decon Site Sampling Plan

General

- Revise the plan to address how sampling data will be used to establish baseline conditions, determine whether the site was impacted by decon activities, and whether cleanup is complete.
- Revise the plan throughout to reference and conform to the requirements of the TCEQ QAPP and SW-846. Procedures for hazardous waste sampling, and handling of samples, must comply with the TCEQ Quality Assurance Project Plan (QAPP) for purposes of Quality Control/Quality Assurance (QA/QC). The Sampling Plan (or Waste Handling and Management Plan) should explicitly reference SW-846–Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods. See SW-846 Chapters 1, 2, 9, and 11 for descriptions of accepted sampling methods, plans, QA/QC and relevant procedures. With prior approval through UC, ASTM methods may be substituted in waste characterization and sampling, or in cases where the ASTM method is specified in regulations.
- Title 30 of the Texas Administrative Code Section 25.1 states that the Commission may accept environmental testing laboratory data and analyses for use in Commission decisions regarding any matter under the Commission's jurisdiction relating to permits or other authorizations, compliance matters, enforcement actions, or corrective actions only if the data and analyses are prepared by an environmental testing laboratory accredited by the Commission under this chapter, except as provided in §25.6 of this title (relating to Conditions Under Which the Commission May Accept Analytical Data). Revise the plan to reflect this requirement.

Section 3

- Revise this section throughout to address required field QA/QC samples in types and frequencies specified in the TCEQ QAPP and SW-846. Address the analytes to be tested, test methods, sample volume and containers, preservation methods, and sample holding times.
- The discussion on surface water sampling indicates that only one sample will be taken from shore. Revise the plan to clarify how the sample location will be chosen and discuss why that location will be sufficiently representative of surface water conditions to both establish a baseline condition and to evaluate whether decon operations impacted the surface water.
- Revise the plan to clarify whether samplers will collect one 1 oz grab sample every 100 sq feet, or one 4 oz sample every 400 sq ft.
- Composite sampling for volatile constituents is inappropriate, as it risks volatile loss. Loss of volatiles during the sampling procedure will bias sample results low, and yield results that are not representative of site conditions. Revise the plan to use grab sampling.
- In the discussion on soil sampling, please revise the plan to address how sampling will be conducted for areas that are paved or covered in gravel.
- Revise the plan to add the shipping address and phone number for lab in Kelso, WA.

Section 3.D.1

- Revise the plan to include TPH and any other constituents identified in the waste material sampled elsewhere.
- Table 3.D.3-1 – Preservation should be less than or equal to 4 degrees C.

Section 5

- Revise this section to add the other referenced plans, pertinent portions of Title 40 of the Code of Federal Regulations and Title 30 of the Texas Administrative Code, SW-846 Test Methods, and the TCEQ QAPP.

Lastly, the inclusion of the referenced documents as attachments was appreciated and helped with the review of the complete proposed plan of action.

Thanks,
Nicole

From: Helen Dubach <hdubach@ctehrm.com>
Sent: Wednesday, April 10, 2019 2:23 PM
To: spill12 <spill12@tceq.texas.gov>; Adams, Adam <Adams.Adam@epa.gov>; johnathan.martin@pcs.hctx.net
Subject: 2nd 80s Fire

Please see attached the revised Equipment Decon Plan. I will be printing today and circulating for approval. Note the following edits based on EPA and TCEQ comments:

EPA comment:

- The decon personnel might require a PPE level higher than Level D depending on the results of the air monitoring. Added: If decon activities result in detections of VOCs above actionable levels, additional PPE requirements will be implemented as necessary (e.g. respiratory protection).

TCEQ comment:

- how the cleaning area is drained/captured for removal. The plan confims that "All decon operations will take place in Decon pools, which will be set up on either side of an open roadway such that trucks and trailers can safely enter and exit without turning around and without interrupting work operations or endangering personnel. The pools will be set up on clean, flat ground on layers of visqueen and industrial carpet or 40 mil HDPE matting. Each decon pool will be constructed with a wide swath of visqueen around it to allow for splash potential and will be bordered by curbing that includes sorbent boom in order to prevent effluent from the pools from escaping containment and contaminating the ground. " Added: Lined decon areas will be monitored for splash over liquids or rainwater, and significant accumulations will be pumped into vac trucks. During heavy rain, the decon pools and lined areas may be covered with poly liner to large volumes of rainwater ingress.

- clarification/verification on how the cleaning compound is/remains viable for cleaning (e.g., if dipping) or is it a one-time use per vehicle/vessel (is the material recirculated or a one-time use)? The decon operations are based on spraying rather than dipping. This is detailed in Section 7 of the plan

- reference is made to the yet developed waste management plan: when will the plan be provided for review and will it contain specific information on the capture, volume,

transportation, storage (separate accumulation/storage/etc.) for the wastes generated from the decon activity? The Waste Management Plan is currently under internal review.

- the decon area is identified as being at another entity's location (Enterprise), please include the site verification information for pre and post use – how the no-impact demonstration is to be verified/conducted. Added the decon site sampling plan as an attachment.

Cheers,

Helen Dubach
Senior Consultant and Manager, Readiness
CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com | www.ctehrm.com

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/12/2019 10:35:47 PM
To: Turner, Philip [Turner.Philip@epa.gov]
Subject: FW: Revised SCAT Plan for approval
Attachments: SCAT Plan and Endpoints_04_12_19.docx; ATT00001.htm

Dr. Phil,

Attached is the revised SCAT Plan and Endpoints. Adam asked me to verity if the EU's earlier question were answered. But, I don't have your comments.

So, please review the attached plan with track changes.

Thanks in advance,

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Adams, Adam
Sent: Friday, April 12, 2019 5:05 PM
To: Patel, Anish <patel.anish@epa.gov>
Subject: Fwd: Revised SCAT Plan for approval

Does this answer EU's earlier questions? If not, flip to Phil Turner for confirmation.
Thanks

Sent from my iPhone

Begin forwarded message:

> **From:** "Helen Dubach" <hdubach@ctehrm.com>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>, "spill12" <spill12@tceq.texas.gov>
> **Cc:** "Jeffrey Wakefield" <Jeffrey.Wakefield@cardno.com>, "Paige.Doelling@noaa.gov" <Paige.Doelling@noaa.gov>, "Heather.Biggs@tpwd.texas.gov" <Heather.Biggs@tpwd.texas.gov>
> **Subject: Revised SCAT Plan for approval**
>
> All,
>
> Please find attached the revised SCAT Plan for UC approval.
>
> Cheers,
>
> **Helen Dubach**
> Senior Consultant and Manager, Readiness

CTEH RM
Mobile: 504-616-2427
Emergency (24hr): 1-800-916-8233
hdubach@ctehrm.com |www.ctehrm.com

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/17/2019 10:22:53 PM
To: bweber@iterm.com
CC: MGaudet@iterm.com; Adams, Adam (Adams.Adam@epa.gov) [Adams.Adam@epa.gov]; Moore, Gary (moore.gary@epa.gov) [moore.gary@epa.gov]; Crossland, Ronnie (Crossland.Ronnie@epa.gov) [Crossland.Ronnie@epa.gov]; Smalley, Bryant (smalley.bryant@epa.gov) [smalley.bryant@epa.gov]; Petersen, Chris (petersen.chris@epa.gov) [petersen.chris@epa.gov]; Smith, Monica (smith.monica@epa.gov) [smith.monica@epa.gov]; Webster, Susan (webster.susan@epa.gov) [webster.susan@epa.gov]; spill12@tceq.texas.gov; Amy Spall (amy.spall@westonsolutions.com) [amy.spall@westonsolutions.com]
Subject: Signed Discharge Authorization and Effluent Limitations and Monitoring Requirements
Attachments: Discharge Authorization and Effluent Limitations and Monitoring Requirements.pdf

Hello All,

Attached is the signed Discharge Authorization and Effluent Limitations and Monitoring Requirements document.

Sincerely,
Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

Message

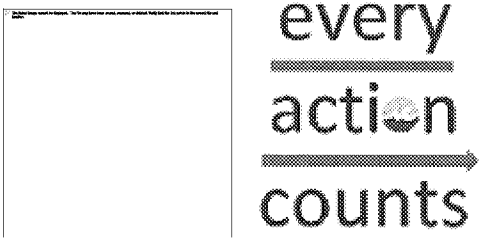
From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/9/2019 5:53:03 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]
Subject: FW: Latest Water Samples
Attachments: ATT00001.txt; HS19040324 Gate 13 ditch Results.pdf; HS19040405 Gate 13 Ditch WOA.pdf; HS19040249 Gate 13 ditch Final.pdf; HS19040324 Gate 13 ditch Final.pdf

ITC Water Samples.

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Tuesday, April 9, 2019 12:40 PM
To: Adams, Adam <Adams.Adam@epa.gov>; 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>; Patel, Anish <patel.anish@epa.gov>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: Latest Water Samples

Please see attached.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/9/2019 2:30:27 PM
To: Amy Spall (amy.spall@westonsolutions.com) [amy.spall@westonsolutions.com]; Daniel Tighe [Daniel.Tighe@WestonSolutions.com]
Subject: tank table
Attachments: Tank Update 4-9-19.xlsx

From: Crossland, Ronnie
Sent: Tuesday, April 9, 2019 8:41 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: FW: Email address for tank table

From: Brent Weber <bweber@iterm.com>
Sent: Tuesday, April 9, 2019 8:37 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; kelly.cook@tceq.texas.gov
Cc: Adams, Adam <Adams.Adam@epa.gov>; Mike Gaudet <MGaudet@iterm.com>
Subject: RE: Email address for tank table

Updated:

From: Crossland, Ronnie [mailto:Crossland.Ronnie@epa.gov]
Sent: Tuesday, April 09, 2019 7:43 AM
To: Brent Weber
Cc: Adams, Adam
Subject: Email address for tank table

Brent

Just making sure you have my email address

Thanks
Ronnie

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/17/2019 1:40:49 PM
To: Smalley, Bryant (smalley.bryant@epa.gov) [smalley.bryant@epa.gov]; Smith, Monica (smith.monica@epa.gov) [smith.monica@epa.gov]; Webster, Susan (webster.susan@epa.gov) [webster.susan@epa.gov]; Petersen, Chris (petersen.chris@epa.gov) [petersen.chris@epa.gov]; Crossland, Ronnie (Crossland.Ronnie@epa.gov) [Crossland.Ronnie@epa.gov]
CC: Loesel, Matthew (loesel.matthew@epa.gov) [loesel.matthew@epa.gov]; Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC
Attachments: Treatability Study.pdf; Plan for Managing Incident Wastewater On-Site.pdf

From: Moore, Gary
Sent: Wednesday, April 17, 2019 8:39 AM
To: Patel, Anish <patel.anish@epa.gov>
Cc: Spall, Amy <amy.spall@westonsolutions.com>
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC

From: Martin, John
Sent: Sunday, April 07, 2019 2:08 PM
To: Fisher, Kelsey <fisher.kelsey@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>
Subject: FW: WWTS Plan For Managing Incident Wastewater - ITC

FYI

John J. Martin
Federal On-Scene Coordinator (OSC)
1445 Ross Ave (6SF-ER)
Dallas, Texas 75202

214.665.6748 * fax 214.665.2278

From: Brent Weber <bweber@iterm.com>
Sent: Sunday, April 07, 2019 1:02 PM
To: spill12 <spill12@tceq.texas.gov>; kelly.cook@tceq.texas.gov
Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Travis Lay <Travis.Lay@Tceq.Texas.Gov>; Martin, John <martin.john@epa.gov>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; david.galindo@tceq.texas.gov; Bob Patton <bob.patton@tceq.texas.gov>; tmitchel@tceq.texas.gov; aileen.hooks@bakerbotts.com; molly.cagle@bakerbotts.com; matthew.kuryla@bakerbotts.com; harrison.reback@bakerbotts.com
Subject: WWTS Plan For Managing Incident Wastewater - ITC

Please find attached the Plan for Managing Incident Wastewater On-Site and accompanying Treatability Study. Please review and advise. In addition, please send what you believe is the appropriate sampling and monitoring protocol as soon as possible.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/7/2019 3:38:12 PM
To: Martin, John (martin.john@epa.gov) [martin.john@epa.gov]; Adams, Adam (Adams.Adam@epa.gov) [Adams.Adam@epa.gov]; Moore, Gary (moore.gary@epa.gov) [moore.gary@epa.gov]; Brescia, Nicolas (brescia.nicolas@epa.gov) [brescia.nicolas@epa.gov]; Rhotenberry, William [Rhotenberry.William@epa.gov]
Subject: FW: WebIAP Login - EPA
Attachments: Version 6 - IAP Login Posting - EPA.pdf

Attached is the login information for accessing the maps from ITC.

From: Lance Tannehill <ltannehill@responsegroupinc.com>
Sent: Sunday, April 7, 2019 9:12 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: WebIAP Login - EPA

Hello Anish,

Please see the attached item. Let me know if you have any Navigation or Software questions.

Thanks,

Lance Tannehill
Response & Exercise Leader
The Response Group
108 Innwood Drive
Covington, LA 70433

Mobile: (985) 249-9002
Office: (985) 400-5444 x305
24 Hr: (281) 880-5000
Fax: (281) 880-5005
www.responsegroupinc.com
Sign up for our Email Newsletter

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/8/2019 4:14:14 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]
Subject: FW: Link for ITC Response Site

The link below has their air sampling data.

From: Scott Malm <smalm@cteh.com>
Sent: Monday, April 8, 2019 11:05 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: Link for ITC Response Site

https://itcresponse.com/air-monitoring/

Scott Malm, Ph.D.
Toxicologist
CTEH, LLC
Office: 501-801-8614 | Mobile: 501-800-6729
Emergency Response 24-Hour Hotline: +1(866) 869-2834
smalm@cteh.com |www.cteh.com

Message

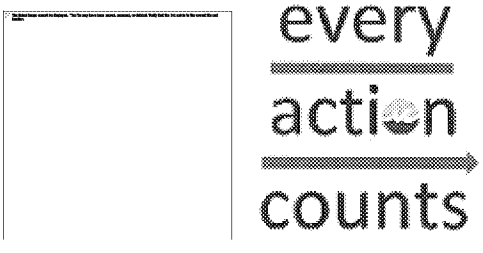
From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/5/2019 5:23:55 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
Subject: FW: Latest Water Sampling
Attachments: ATT00001.txt; HS19040125 Gate 13 ditch Full set of results.pdf; HS19040156 Gate 13 ditch VOC and COD results.pdf; HS19040249 Gate 13 ditch WOA.pdf; HS19040036 Gate 13 ditch Final.pdf; HS19040125 Gate 13 ditch Final.pdf

ITC data attached.

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Friday, April 5, 2019 12:18 PM
To: Adams, Adam <Adams.Adam@epa.gov>; 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; Mason, Steve <mason.steve@epa.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>; Patel, Anish <patel.anish@epa.gov>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: Latest Water Sampling

See attached.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/8/2019 1:39:16 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]
Subject: FW: Latest Water Samples
Attachments: ATT00001.txt; HS19040324 Gate 13 ditch WOA.pdf; HS19040156 Gate 13 ditch Final.pdf

Attached are the latest ITC water sample results.

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Monday, April 8, 2019 8:07 AM
To: Adams, Adam <Adams.Adam@epa.gov>; 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>; Patel, Anish <patel.anish@epa.gov>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: Latest Water Samples

See attached.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com

"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/16/2019 12:14:56 PM
To: james.collins@westonsolutions.com
Subject: FW: Tank Update 4-16-19
Attachments: ATT00001.txt; Tank Update 4-16-19.pdf

From: Randy Wagner <rwagner@responsegroupinc.com>
Sent: Tuesday, April 16, 2019 7:07 AM
To: Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; publicaffairshouston@uscg.mil; Mike Iacoboni <miacoboni@responsegroupinc.com>; mescoto@iterm.com; Spill12@tceq.texas.gov; Rodney.Reed@fmo.hctx.net; Fisher, Kelsey <fisher.kelsey@epa.gov>; mgaudet@iterm.com; Loesel, Matthew <loesel.matthew@epa.gov>; jenniffier.hawes@dps.texas.gov; Harrison.reback@bakerbotts.com; Michael.mcclendon@phs.hctx.net; Michael.schaffer@phs.hctx.net; matthew.kuryla@bakerbotts.com; Molly.cagle@bakerbotts.com; aileen.hooks@bakerbotts.com; CGITCResponse@gmail.com
Cc: Randy Wagner <rwagner@responsegroupinc.com>
Subject: Tank Update 4-16-19

Good morning,

See attached Tank Update for 4/16/19.

Best Regards,

Randy

Randall Wagner
The Response Group
108 Innwood Drive
Covington, Louisiana 70433
Office: 985-400-5441 ext 301
Cell: 713-202-0654
281-880-5000 - Houston, TX Main Office
rwagner@responsegroupinc.com
www.responsegroupinc.com

"YOUR ABILITY TO RESPOND IS OUR SHARED RESPONSIBILITY"

The Response Group Confidentiality Notice: This email message is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 3/23/2019 5:15:32 PM
To: Shaikh, Taimur [Shaikh.Taimur@epa.gov]
Subject: FW: 20190323_Water Results
Attachments: 20190323 Ditch Sample Map.jpg; preliminary draft text description (003).pdf; summary table_18Mar2019.pdf

From: Loesel, Matthew
Sent: Saturday, March 23, 2019 12:09 PM
To: Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Patel, Anish <patel.anish@epa.gov>
Subject: FW: 20190323_Water Results

ITC Data

Matthew Loesel
US Environmental Protection Agency
Federal On-Scene Coordinator
(w) 214-665-8544
(c) 214-738-0674
Loesel.matthew@epa.gov

From: Mike Gaudet <MGaudet@iterm.com>
Sent: Saturday, March 23, 2019 12:07 PM
To: Adams, Adam <Adams.Adam@epa.gov>; spill12@tceq.texas.gov; Mason, Steve <mason.steve@epa.gov>; craig.hill@pcs.hctx.net; johnathan.martin@pcs.hctx.net; Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; b.latham@WestonSolutions.com; houstonscc@uscg.mil; jarod.s.toczko@uscg.mil; uscgimdhouston@gmail.com; Loesel, Matthew <loesel.matthew@epa.gov>
Cc: harrison.reback@bakerbotts.com; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; ITC Incident <itcincident@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; molly.cagle@bakerbotts.com
Subject: 20190323_Water Results

Please find attached the water sampling results. Please review and advise of any concerns as to ITC's public posting of this information.

Michael Gaudet
Environmental Compliance Manager
Intercontinental Terminals Company LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0360
C: 281.787.8256
mgaudet@iterm.com

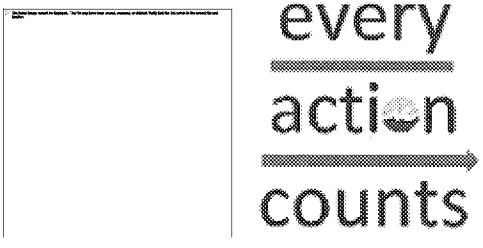
Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/16/2019 3:24:16 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]; Loesel, Matthew (loesel.matthew@epa.gov) [loesel.matthew@epa.gov]
Subject: FW: Latest Water Sampling
Attachments: ATT00001.txt; HS19040661 Gate 13 Ditch Final.pdf; HS19040737 Gate 13 Ditch Final.pdf

From: Reid McLelland <RMcLelland@iterm.com>
Sent: Tuesday, April 16, 2019 10:15 AM
To: 'spill12@tceq.texas.gov' <spill12@tceq.texas.gov>; 'craig.hill@pcs.hctx.net' <craig.hill@pcs.hctx.net>; 'johnathan.martin@pcs.hctx.net' <johnathan.martin@pcs.hctx.net>; 'b.latham@WestonSolutions.com' <b.latham@WestonSolutions.com>; 'uscgimdhouston@gmail.com' <uscgimdhouston@gmail.com>; 'nicole.bealle@tceq.texas.gov' <nicole.bealle@tceq.texas.gov>; 'alma.walker@tceq.texas.gov' <alma.walker@tceq.texas.gov>; Quiroz Guadalupe_TCEQ <Guadalupe.quiroz@tceq.texas.gov>; 'andy.goodridge@tceq.texas.gov' <andy.goodridge@tceq.texas.gov>; 'karina.roche@tceq.texas.gov' <karina.roche@tceq.texas.gov>; 'westin.massey@tceq.texas.gov' <westin.massey@tceq.texas.gov>; 'nicole.d.rodriguez@uscg.mil' <nicole.d.rodriguez@uscg.mil>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>
Cc: 'harrison.reback@bakerbotts.com' <harrison.reback@bakerbotts.com>; matthew.kuryla@bakerbotts.com; Mike Taylor <mtaylor@iterm.com>; Reid McLelland <RMcLelland@iterm.com>; Mike Gaudet <MGaudet@iterm.com>; 'mark.hamlin@bakerbotts.com' <mark.hamlin@bakerbotts.com>
Subject: Latest Water Sampling

Please see attached.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/7/2019 6:22:29 PM
To: Daniel Tighe [Daniel.Tighe@WestonSolutions.com]; Spall, Amy [amy.spall@westonsolutions.com]
Subject: FW: 20190406_Follow-up on TCEQ Requests
Attachments: 20190405_Incident Volumes.pdf; ATT00001.htm; 20190405_Tank Information.pdf; ATT00002.htm; 20190323_TankFarmMap.pdf; ATT00003.htm; Impacted Tank Farm - Overhead.jpg; ATT00004.htm; 20190406_Impacted Tank Summary.pdf; ATT00005.htm

From: Crossland, Ronnie
Sent: Sunday, April 7, 2019 12:59 PM
To: Martin, John <martin.john@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>
Cc: Smith, Monica <smith.monica@epa.gov>; Smalley, Bryant <smalley.bryant@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Subject: FW: 20190406_Follow-up on TCEQ Requests

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Sunday, April 7, 2019 12:44 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Subject: Fwd: 20190406_Follow-up on TCEQ Requests

FYI

Sent from my iPhone

Begin forwarded message:

From: Brent Weber <bweber@iterm.com>
Date: April 7, 2019 at 12:23:08 PM CDT
To: "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>
Subject: FW: 20190406_Follow-up on TCEQ Requests

From: Mike Gaudet
Sent: Saturday, April 06, 2019 6:49 PM
To: spill12; adams.adam@epa.gov
Cc: Nicole Bealle; Travis Lay; Brent Weber; Mike Gaudet; martin.john@epa.gov; daniel.tighe@westonsolutions.com; david.galindo@tceq.texas.gov; bob.patton@tceq.texas.gov; tmitchel@tceq.texas.gov; aileen.hooks@bakerbotts.com; molly.cagle@bakerbotts.com; matthew.kuryla@bakerbotts.com; harrison.reback@bakerbotts.com
Subject: 20190406_Follow-up on TCEQ Requests

Kendra,

Responses to your questions are addressed below. Additionally, the following documents are attached:

1. Impacted tank information table and related information requested in the first segment below.
2. Impacted tank farm map including product contents.

3. Impacted tank farm overhead photograph.
4. Wastewater/incident material storage tank location plot plan.
5. Wastewater/incident material storage volumes.

Regards,
Mike

From: spill12 [mailto:spill12@tceq.texas.gov]
Sent: Friday, April 05, 2019 10:19 PM
To: Mike Gaudet; Brent Weber
Cc: Nicole Bealle; Travis Lay
Subject: Follow-up on TCEQ Requests

Mike and Brent,

Just following up on the below requests and questions that TCEQ has made in the last few days that still remain outstanding. Please get with Travis first thing in the morning to provide a status update on these issues and/or answers regarding the below items as they are high priorities for the agency.

- The original tank volumes of the impacted tanks, and the current volumes of where the tanks are at now
- Amounts removed from tanks thus far
- Where each tank has been pumped to thus far and how it has gotten there. Please include a map of conveyance (PIND Drawing) or description of conveyance.
- The tank volumes of all tanks being utilized for managing the waste that has been generated. (80-18, 60-1, 80-34, 100-31, 100-28, 100-15, 80-33, barge)
- Include what material was in each impacted tank
- Method of recovery & product transfer.
- Level of the separator and tank farm and location of where the material is being transferred to.
- And any other important information related to the tank farm, barges, frac tanks, roll offs, tanks holding waste.

1. Regarding non-fire impacted stormwater management:
   - Provide a volume of accumulated non-fire impacted stormwater.

     There is no significant accumulation of non-fire impacted stormwater currently being managed onsite. Accumulation of this material is typically rainfall dependent.
   - Prior to discharging stormwater, ITC is to conduct pre-sampling of the water to be discharged from the non-fire impacted area(s). ITC must demonstrate that no contaminants related to the fire or firefighting activities will impact the discharge and that only discharges allowed by the facility's TPDES permit will be discharged from this outfall. Provide pre-discharge sample results to the TCEQ via the command structure. TCEQ received analysis results of samples for stormwater that we understand is intended to be released through outfall 005 with a COD of approximately 20 mg/L. This meets COD limits and may be released after meeting the other requirements listed here (provide volume and coordinate the discharge).

     Understood
   - Coordinate any stormwater discharge with the surface water recovery group prior to discharge.

     Understood

2. Regarding the request of 4/4/19 to have a temporary alternate discharge location (attached) for non-impacted stormwater:

- Provide pre-discharge non-fire impacted area stormwater sample results for the standard stormwater parameters.
  Understood
- Prior to discharge, coordinate with the surface water recovery group.
  Understood
- The TCEQ has no objections with a temporary re-routing of this stormwater away from outfall 003 and allowing the discharge as proposed.
  Understood

Thank you,

Kendra Bernhagen

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/7/2019 6:10:39 PM
To: Moore, Gary (moore.gary@epa.gov) [moore.gary@epa.gov]; Kelsey Fisher (fisher.kelsey@epa.gov) [fisher.kelsey@epa.gov]
Subject: FW: 20190406_Follow-up on TCEQ Requests
Attachments: 20190405_Incident Volumes.pdf; ATT00001.htm; 20190405_Tank Information.pdf; ATT00002.htm; 20190323_TankFarmMap.pdf; ATT00003.htm; Impacted Tank Farm - Overhead.jpg; ATT00004.htm; 20190406_Impacted Tank Summary.pdf; ATT00005.htm

---

From: Crossland, Ronnie
Sent: Sunday, April 7, 2019 12:59 PM
To: Martin, John <martin.john@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>
Cc: Smith, Monica <smith.monica@epa.gov>; Smalley, Bryant <smalley.bryant@epa.gov>; Delgado, Eric <Delgado.Eric@epa.gov>; Patel, Anish <patel.anish@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Subject: FW: 20190406_Follow-up on TCEQ Requests

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Sunday, April 7, 2019 12:44 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>
Subject: Fwd: 20190406_Follow-up on TCEQ Requests

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** Brent Weber <bweber@iterm.com>
> **Date:** April 7, 2019 at 12:23:08 PM CDT
> **To:** "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>
> **Subject: FW: 20190406_Follow-up on TCEQ Requests**

> **From:** Mike Gaudet
> **Sent:** Saturday, April 06, 2019 6:49 PM
> **To:** spill12; adams.adam@epa.gov
> **Cc:** Nicole Bealle; Travis Lay; Brent Weber; Mike Gaudet; martin.john@epa.gov; daniel.tighe@westonsolutions.com; david.galindo@tceq.texas.gov; bob.patton@tceq.texas.gov; tmitchel@tceq.texas.gov; aileen.hooks@bakerbotts.com; molly.cagle@bakerbotts.com; matthew.kuryla@bakerbotts.com; harrison.reback@bakerbotts.com
> **Subject:** 20190406_Follow-up on TCEQ Requests
>
> Kendra,
>
> Responses to your questions are addressed below. Additionally, the following documents are attached:
>
> 1. Impacted tank information table and related information requested in the first segment below.

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Mike

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Sent: Friday, April 05, 2019 10:19 PM
To: Mike Gaudet; Brent Weber
Cc: Nicole Bealle; Travis Lay
Subject: Follow-up on TCEQ Requests

Mike and Brent,

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- Amounts removed from tanks thus far
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2. Regarding the request of 4/4/19 to have a temporary alternate discharge location (attached) for non-impacted stormwater:

- Provide pre-discharge non-fire impacted area stormwater sample results for the standard stormwater parameters.
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- Prior to discharge, coordinate with the surface water recovery group.
  Understood
- The TCEQ has no objections with a temporary re-routing of this stormwater away from outfall 003 and allowing the discharge as proposed.
  Understood

Thank you,

Kendra Bernhagen

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/5/2019 2:31:28 PM
To: Spall, Amy [Amy.Spall@WestonSolutions.com]
Subject: FW: 20190403_3 Apr 2019 - CTEH Community Report: 4/2 - 4/3

From: Adams, Adam
Sent: Wednesday, April 3, 2019 12:42 PM
To: Mike Gaudet <MGaudet@iterm.com>
Cc: Patel, Anish <patel.anish@epa.gov>
Subject: Re: 20190403_3 Apr 2019 - CTEH Community Report: 4/2 - 4/3

Please add Anish Patel to distribution list

Sent from my iPhone

On Apr 3, 2019, at 12:38 PM, Mike Gaudet <MGaudet@iterm.com> wrote:

> Please find attached the latest CTEH community report. Please review and advise.
>
> Any monitoring data that exceeds action levels agreed upon in UC/monitoring meetings should be immediately reported by telephone to (832) 493-8041.
>
> Information for the email inbox is as follows:
> Email address for submittal: air2@iterm.com
>
> Access to the email box:
> Web access: https://owa.iterm.com/owa
> Username: air2
> Password: 1nc1d3nt!

Michael Gaudet
Environmental Compliance Manager
Intercontinental Terminals Company LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0360
C: 281.787.8256
mgaudet@iterm.com

<111356 - Deer Park Tank Fire Air Monitoring Summary 2019-04-03.pdf>

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/3/2019 11:22:36 PM
To: Reid McLelland [RMcLelland@iterm.com]
Subject: RE: 20190403 Water Sampling

Thanks

-----Original Message-----
From: Reid McLelland <RMcLelland@iterm.com>
Sent: Wednesday, April 3, 2019 6:17 PM
To: Patel, Anish <patel.anish@epa.gov>
Subject: Re: 20190403 Water Sampling

Certainly, will do.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Company LLC
281.884.0308
Rmclelland@iterm.com<mailto:Rmclelland@iterm.com>

On Apr 3, 2019, at 5:54 PM, Patel, Anish <patel.anish@epa.gov<mailto:patel.anish@epa.gov>> wrote:

Reid,

Please add me to this distribution list (see below).

Thanks

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Adams, Adam
Sent: Wednesday, April 3, 2019 5:42 PM
To: Patel, Anish <patel.anish@epa.gov<mailto:patel.anish@epa.gov>>
Subject: Fwd: 20190403 Water Sampling

Can you make sure your on this distribution list, please?
Sent from my iPhone

Begin forwarded message:
From: "Reid McLelland" <RMcLelland@iterm.com<mailto:RMcLelland@iterm.com>>
To: "Adams, Adam" <Adams.Adam@epa.gov<mailto:Adams.Adam@epa.gov>>,
"'spill12@tceq.texas.gov<mailto:spill12@tceq.texas.gov>'"
<spill12@tceq.texas.gov<mailto:spill12@tceq.texas.gov>>, "Mason, Steve"
<mason.steve@epa.gov<mailto:mason.steve@epa.gov>>,
"'craig.hill@pcs.hctx.net<mailto:craig.hill@pcs.hctx.net>'"
<craig.hill@pcs.hctx.net<mailto:craig.hill@pcs.hctx.net>>,
"'johnathan.martin@pcs.hctx.net<mailto:johnathan.martin@pcs.hctx.net>'"
<johnathan.martin@pcs.hctx.net<mailto:johnathan.martin@pcs.hctx.net>>, "Daniel Tighe"
<Daniel.Tighe@WestonSolutions.com<mailto:Daniel.Tighe@WestonSolutions.com>>,
"'b.latham@WestonSolutions.com<mailto:b.latham@WestonSolutions.com>'"
<b.latham@WestonSolutions.com<mailto:b.latham@WestonSolutions.com>>,
"'uscgimdhouston@gmail.com<mailto:uscgimdhouston@gmail.com>'"
<uscgimdhouston@gmail.com<mailto:uscgimdhouston@gmail.com>>,
"'nicole.bealle@tceq.texas.gov<mailto:nicole.bealle@tceq.texas.gov>'"
<nicole.bealle@tceq.texas.gov<mailto:nicole.bealle@tceq.texas.gov>>,
"'alma.walker@tceq.texas.gov<mailto:alma.walker@tceq.texas.gov>'"
<alma.walker@tceq.texas.gov<mailto:alma.walker@tceq.texas.gov>>, "Quiroz Guadalupe_TCEQ"
<Guadalupe.quiroz@tceq.texas.gov<mailto:Guadalupe.quiroz@tceq.texas.gov>>,
"'andy.goodridge@tceq.texas.gov<mailto:andy.goodridge@tceq.texas.gov>'"
<andy.goodridge@tceq.texas.gov<mailto:andy.goodridge@tceq.texas.gov>>,
"'karina.roche@tceq.texas.gov<mailto:karina.roche@tceq.texas.gov>'"

<karina.roche@tceq.texas.gov<mailto:karina.roche@tceq.texas.gov>>,
"'westin.massey@tceq.texas.gov<mailto:westin.massey@tceq.texas.gov>'"
<westin.massey@tceq.texas.gov<mailto:westin.massey@tceq.texas.gov>>,
"'nicole.d.rodriguez@uscg.mil<mailto:nicole.d.rodriguez@uscg.mil>'"
<nicole.d.rodriguez@uscg.mil<mailto:nicole.d.rodriguez@uscg.mil>>
Cc: "'harrison.reback@bakerbotts.com<mailto:harrison.reback@bakerbotts.com>'"
<harrison.reback@bakerbotts.com<mailto:harrison.reback@bakerbotts.com>>,
"matthew.kuryla@bakerbotts.com<mailto:matthew.kuryla@bakerbotts.com>"
<matthew.kuryla@bakerbotts.com<mailto:matthew.kuryla@bakerbotts.com>>, "Mike Taylor"
<mtaylor@iterm.com<mailto:mtaylor@iterm.com>>, "Reid McLelland"
<RMcLelland@iterm.com<mailto:RMcLelland@iterm.com>>, "Mike Gaudet"
<MGaudet@iterm.com<mailto:MGaudet@iterm.com>>,
"'mark.hamlin@bakerbotts.com<mailto:mark.hamlin@bakerbotts.com>'"
<mark.hamlin@bakerbotts.com<mailto:mark.hamlin@bakerbotts.com>>
Subject: 20190403 Water Sampling
See attached latest water sampling results.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com<mailto:rmclelland@iterm.com>

[cid:image004.jpg@01D029C0.80BB90E0][Untitled]

“An ounce of prevention is worth a pound of cure.” – Benjamin Franklin

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/7/2019 4:33:27 PM
To: Turner, Philip [Turner.Philip@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: Delgado, Eric (Delgado.Eric@epa.gov) [Delgado.Eric@epa.gov]
Subject: FW: Electronic Copy of CTEH Analytical Air Sampling Adjustment Plan
Attachments: Deer Park Tank Fire - Analytical Air Adjustment Plan V.S. 1.0.pdf

Please review and provide comments for the attached ITC's plan to reduce the amount of Air Sampling locations.

From: Scott Malm <smalm@cteh.com>
Sent: Sunday, April 7, 2019 11:29 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: Electronic Copy of CTEH Analytical Air Sampling Adjustment Plan

Hi Anish,

Please see the attached file for an electronic copy of the Analytical Air Sampling Adjustment Plan we discussed earlier.

Thanks very much,

Scott Malm, Ph.D.
Toxicologist
CTEH, LLC
Office: 501-801-8614 | Mobile: 501-800-6729
Emergency Response 24-Hour Hotline: +1(866) 869-2834
smalm@cteh.com |www.cteh.com

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/3/2019 10:52:16 PM
To: RMcLelland@iterm.com
Subject: RE: 20190403 Water Sampling

Reid,

Please add me to this distribution list (see below).

Thanks

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Adams, Adam
Sent: Wednesday, April 3, 2019 5:42 PM
To: Patel, Anish <patel.anish@epa.gov>
Subject: Fwd: 20190403 Water Sampling

Can you make sure your on this distribution list, please?

Sent from my iPhone

Begin forwarded message:

> **From:** "Reid McLelland" <RMcLelland@iterm.com>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>, "'spill12@tceq.texas.gov'" <spill12@tceq.texas.gov>, "Mason, Steve" <mason.steve@epa.gov>, "'craig.hill@pcs.hctx.net'" <craig.hill@pcs.hctx.net>, "'johnathan.martin@pcs.hctx.net'" <johnathan.martin@pcs.hctx.net>, "Daniel Tighe" <Daniel.Tighe@WestonSolutions.com>, "'b.latham@WestonSolutions.com'" <b.latham@WestonSolutions.com>, "'uscgimdhouston@gmail.com'" <uscgimdhouston@gmail.com>, "'nicole.bealle@tceq.texas.gov'" <nicole.bealle@tceq.texas.gov>, "'alma.walker@tceq.texas.gov'" <alma.walker@tceq.texas.gov>, "Quiroz Guadalupe_TCEQ" <Guadalupe.quiroz@tceq.texas.gov>, "'andy.goodridge@tceq.texas.gov'" <andy.goodridge@tceq.texas.gov>, "'karina.roche@tceq.texas.gov'" <karina.roche@tceq.texas.gov>, "'westin.massey@tceq.texas.gov'" <westin.massey@tceq.texas.gov>, "'nicole.d.rodriguez@uscg.mil'" <nicole.d.rodriguez@uscg.mil>
> **Cc:** "'harrison.reback@bakerbotts.com'" <harrison.reback@bakerbotts.com>, "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, "Mike Taylor" <mtaylor@iterm.com>, "Reid McLelland" <RMcLelland@iterm.com>, "Mike Gaudet" <MGaudet@iterm.com>, "'mark.hamlin@bakerbotts.com'" <mark.hamlin@bakerbotts.com>
> **Subject: 20190403 Water Sampling**
>
> See attached latest water sampling results.

Reid McLelland
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1943 Independence Pkwy S. | LaPorte, TX 77571
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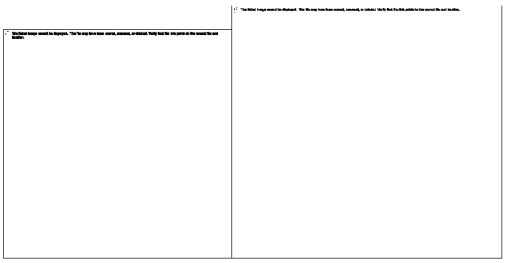
rmclelland@iterm.com



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Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/15/2019 8:02:38 PM
To: Rauscher, Jon [Rauscher.Jon@epa.gov]; Turner, Philip [Turner.Philip@epa.gov]; Shaikh, Taimur [Shaikh.Taimur@epa.gov]
CC: james.collins@westonsolutions.com
Subject: Additional Laboratory Analysis For Outfall?
Attachments: ITC wastewater directive 4-14-19_Draft_EQcomments.docx; ATT00001.htm; Effluent Limitations and Monitoring Requirements.pdf; ATT00002.htm

All,

Please look at the attached effluent limitations and monitoring requirements that TCEQ have required for ITC's wastewater discharge. Let me know if EPA needs to add any additional analysis to the ones we currently perform on the water samples for the samples we will collect near the discharge outfall.

Thanks in advance,

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Adams, Adam
Sent: Monday, April 15, 2019 2:56 PM
To: Patel, Anish <patel.anish@epa.gov>; James Collins <james.collins@westonsolutions.com>
Subject: Fwd: Request For Discharge Authorization

FYI only

Sent from my iPhone

Begin forwarded message:

> **From:** "Smalley, Bryant" <smalley.bryant@epa.gov>
> **Date:** April 14, 2019 at 9:48:35 AM CDT
> **To:** "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
> **Cc:** "Quinones, Edwin" <quinones.edwin@epa.gov>, "Smith, Monica" <smith.monica@epa.gov>, "Webster, Susan" <webster.susan@epa.gov>
> **Subject: RE: Request For Discharge Authorization**
>
> Ronnie – Ed's comments are incorporated. Let me know if you have any more thoughts or edits.
>
> Bryant

From: Smalley, Bryant
Sent: Sunday, April 14, 2019 8:42 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Adam Adams <Adams.Adam@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Cc: Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

All – Attached is an updated version, incorporating Adams and Ronnie's comments.

Please provide any feedback ASAP.

Bryant

From: Smalley, Bryant
Sent: Sunday, April 14, 2019 7:35 AM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Adam Adams <Adams.Adam@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Cc: Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: RE: Request For Discharge Authorization

FYSA – First Draft. Just FYI, this does not include the statement for Continuing Discharge of Non-Incident Related Wastewater, since I am unclear why this would not be covered in their existing permit. It can be added if needed, but I think we need to clarify when they transition from this authorization to their TCEQ permit.

Adam – can we discuss this this morning?

Bryant

From: Crossland, Ronnie
Sent: Saturday, April 13, 2019 4:29 PM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Quinones, Edwin <quinones.edwin@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Webster, Susan <webster.susan@epa.gov>
Subject: Fwd: Request For Discharge Authorization

Sent from my iPhone

Begin forwarded message:

> **From:** Brent Weber <bweber@iterm.com>
> **Date:** April 13, 2019 at 4:17:39 PM CDT
> **To:** "Crossland, Ronnie (Crossland.Ronnie@epa.gov)" <Crossland.Ronnie@epa.gov>, "Adams, Adam (Adams.Adam@epa.gov)" <Adams.Adam@epa.gov>
> **Cc:** "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "harrison.reback@bakerbotts.com" <harrison.reback@bakerbotts.com>, "aileen.hooks@bakerbotts.com" <aileen.hooks@bakerbotts.com>
> **Subject: Request For Discharge Authorization**

Attached is an ITC request for authorization to discharge incident related wastewater.

Brent J. Weber
Intercontinental Terminals Company LLC
Senior Vice President, Sales and Marketing
Office: 281-884-0277
Cell: 225-806-5136
Bweber@iterm.com

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/14/2019 1:29:56 PM
To: Neil Daniell [NDaniell@css-inc.com]
Subject: FW: Tank Update 4-14-19
Attachments: Tank Update 4-14-19.pdf

From: Margaret Zalabak <MZalabak@responsegroupinc.com>
Sent: Sunday, April 14, 2019 8:09 AM
To: Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; Margaret Zalabak <MZalabak@responsegroupinc.com>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; publicaffairshouston@uscg.mil; Mike Iacoboni <miacoboni@responsegroupinc.com>; mescoto@iterm.com; Spill12@tceq.texas.gov; Rodney.Reed@fmo.hctx.net; Fisher, Kelsey <fisher.kelsey@epa.gov>; mgaudet@iterm.com; Loesel, Matthew <loesel.matthew@epa.gov>; jenniffier.hawes@dps.texas.gov; Harrison.reback@bakerbotts.com; Michael.mcclendon@phs.hctx.net; Michael.schaffer@phs.hctx.net; matthew.kuryla@bakerbotts.com; Molly.cagle@bakerbotts.com; aileen.hooks@bakerbotts.com; CGITCResponse@gmail.com
Cc: David Hill <dhill@responsegroupinc.com>; Kevin Madison <kmadison@responsegroupinc.com>
Subject: Tank Update 4-14-19

Good Morning,

Attached, please find the Tank Status Update for 4/14/19.

Thank you,

Margaret Zalabak
The Response Group
13939 Telge Road
Cypress, Texas 77429
Office: 281-880-5000
Cell: 310-990-1071
www.responsegroupinc.com
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Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/15/2019 12:08:28 PM
To: Margaret Zalabak [MZalabak@responsegroupinc.com]
Subject: RE: Tank Update 4-15-19

Hi Margaret,

Could you please add James Collins to this distribution list. His email is james.collins@westonsolutions.com

Thanks in advance,

Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

From: Margaret Zalabak <MZalabak@responsegroupinc.com>
Sent: Monday, April 15, 2019 7:00 AM
To: Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; Randy Wagner <rwagner@responsegroupinc.com>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; publicaffairshouston@uscg.mil; Mike Iacoboni <miacoboni@responsegroupinc.com>; mescoto@iterm.com; Spill12@tceq.texas.gov; Rodney.Reed@fmo.hctx.net; Fisher, Kelsey <fisher.kelsey@epa.gov>; mgaudet@iterm.com; Loesel, Matthew <loesel.matthew@epa.gov>; jenniffier.hawes@dps.texas.gov; Harrison.reback@bakerbotts.com; Michael.mcclendon@phs.hctx.net; Michael.schaffer@phs.hctx.net; matthew.kuryla@bakerbotts.com; Molly.cagle@bakerbotts.com; aileen.hooks@bakerbotts.com; CGITCResponse@gmail.com
Cc: Lance Lindgren <LLindgren@responsegroupinc.com>
Subject: Tank Update 4-15-19

Good Morning,

Attached, please find the Tank Status Update for 4/15/19.

Thanks,

Margaret Zalabak
The Response Group
13939 Telge Road

Cypress, Texas 77429
Office: 281-880-5000
Cell: 310-990-1071
www.responsegroupinc.com
Sign up for our Email Newsletter

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/15/2019 12:01:21 PM
To: Amy Spall (amy.spall@westonsolutions.com) [amy.spall@westonsolutions.com]
CC: james.collins@westonsolutions.com
Subject: FW: Tank Update 4-15-19
Attachments: Tank Update 4-15-19.pdf

From: Margaret Zalabak <MZalabak@responsegroupinc.com>
Sent: Monday, April 15, 2019 7:00 AM
To: Michael Honeycutt <Michael.honeycutt@tceq.texas.gov>; Brandy.Brooks@tceq.texas.gov; Richard Chism <Richard.Chism@tceq.texas.gov>; Sabine.Lange@tceq.texas.gov; Jonathan.walling@tceq.texas.gov; kelly.cook@tceq.texas.gov; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Andy.goodridge@tceq.texas.gov; susan.johnson@tceq.texas.gov; anthony.buck@tceq.texas.gov; abel.garcia@tceq.texas.gov; terry.sullivan@tceq.texas.gov; christopher.wiatrek@tceq.texas.gov; jack.lunday@tceq.texas.gov; jeff.kunze@tceq.texas.gov; Ramiro.Garcia@tceq.texas.gov; kevin.m.smeltzer.mil@mail.mil; hdubach@ctehrm.com; Cameron.dews@pcs.hctx.net; Johnathan.martin@pcs.hctx.net; fhart@deerparktx.org; brian.brockett@dps.texas.gov; Christopher.s.sedtal.mil@mail.mil; bob.royall@fmo.hctx.net; Randy Wagner <rwagner@responsegroupinc.com>; Patel, Anish <patel.anish@epa.gov>; Spall, Amy <amy.spall@westonsolutions.com>; Bryan Carlisle <bcarlisle@responsegroupinc.com>; publicaffairshouston@uscg.mil; Mike Iacoboni <miacoboni@responsegroupinc.com>; mescoto@iterm.com; Spill12@tceq.texas.gov; Rodney.Reed@fmo.hctx.net; Fisher, Kelsey <fisher.kelsey@epa.gov>; mgaudet@iterm.com; Loesel, Matthew <loesel.matthew@epa.gov>; jenniffier.hawes@dps.texas.gov; Harrison.reback@bakerbotts.com; Michael.mcclendon@phs.hctx.net; Michael.schaffer@phs.hctx.net; matthew.kuryla@bakerbotts.com; Molly.cagle@bakerbotts.com; aileen.hooks@bakerbotts.com; CGITCResponse@gmail.com
Cc: Lance Lindgren <LLindgren@responsegroupinc.com>
Subject: Tank Update 4-15-19

Good Morning,

Attached, please find the Tank Status Update for 4/15/19.

Thanks,

Margaret Zalabak
The Response Group
13939 Telge Road
Cypress, Texas 77429
Office: 281-880-5000
Cell: 310-990-1071
www.responsegroupinc.com
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Message

From: Smith, Monica [smith.monica@epa.gov]
Sent: 4/3/2019 12:10:57 PM
To: Patel, Anish [patel.anish@epa.gov]
Subject: Please assist with clarification
Attachments: image007.png; image002.png

Who received e-notify?
Harris County Pollution Control?
Deer Park and Harris County EOC?

Monica Smith
Chief,
Planning, Prevention, Readiness & Response Section (6SF-EA)
214-665-6780 office
469-766-3398 cell
smith.monica@epa.gov

-----Original Message-----
From: Adams, Adam
Sent: Wednesday, April 3, 2019 6:00 AM
To: Smalley, Bryant <smalley.bryant@epa.gov>; Smith, Monica <smith.monica@epa.gov>
Cc: Daniel Tighe <Daniel.Tighe@WestonSolutions.com>
Subject: FW: List of agencies

In addition to this list of notifications by ITC, they also notified 911.
Adam

-----Original Message-----
From: Mike Gaudet <MGaudet@iterm.com>
Sent: Tuesday, April 02, 2019 8:09 PM
To: Adams, Adam <Adams.Adam@epa.gov>
Subject: List of agencies

Adam,

ITC notified the following agencies and organizations on March 17, 2019:

* Local community organizations (via 10:21 am e-Notify report)
* Texas Commission on Environmental Quality, Texas General Land Office, and State Emergency Response Commission (via 12:04 pm call to the Texas 24 hour notification line)
* US Coast Guard and EPA (via 12:11 pm call to the National Response Center)
* Harris County (via 12:16 pm call to Harris County Pollution Control Services)

Mike

Message

From: Patel, Anish [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9C6800BB378B4E658F7A132C40631E8E-PATEL, ANIS]
Sent: 4/7/2019 4:48:02 PM
To: Kelsey Fisher (fisher.kelsey@epa.gov) [fisher.kelsey@epa.gov]; Robertson, David (robertson.david@epa.gov) [robertson.david@epa.gov]
Subject: FW: WebIAP Login - EPA
Attachments: Version 6 - IAP Login Posting - EPA.pdf

Attached is the login information for accessing the maps from ITC.

From: Lance Tannehill <ltannehill@responsegroupinc.com>
Sent: Sunday, April 7, 2019 9:12 AM
To: Patel, Anish <patel.anish@epa.gov>
Subject: WebIAP Login - EPA

Hello Anish,

Please see the attached item. Let me know if you have any Navigation or Software questions.

Thanks,

Lance Tannehill
Response & Exercise Leader
The Response Group
108 Innwood Drive
Covington, LA 70433

Mobile: (985) 249-9002
Office: (985) 400-5444 x305
24 Hr: (281) 880-5000
Fax: (281) 880-5005
www.responsegroupinc.com
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Contact

Full Name: MGaudet@iterm.com

E-mail: MGaudet@iterm.com

Contact

Full Name: bweber@iterm.com

E-mail: bweber@iterm.com

Message

From: petersen.chris@epa.gov [petersen.chris@epa.gov]
Sent: 3/25/2019 6:35:48 PM
To: Lyssy, Gregory [lyssy.gregory@epa.gov]
CC: Smith, Monica [smith.monica@epa.gov]; Crossland, Ronnie [Crossland.Ronnie@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]
Subject: Re: 2nd 80's Fire WMP

Any comments Greg?

Sent from my iPhone

On Mar 23, 2019, at 3:22 PM, Petersen, Chris <petersen.chris@epa.gov> wrote:

> Greg – Please review ASAP and provide comments.
>
> **From:** Loesel, Matthew
> **Sent:** Saturday, March 23, 2019 3:00 PM
> **To:** Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Smith, Monica <smith.monica@epa.gov>
> **Subject:** FW: 2nd 80's Fire WMP
>
> We need a quick review of this by Waste expert, TCEQ is reviewing as authorized agency as well.
>
> Matthew Loesel
> US Environmental Protection Agency
> Federal On-Scene Coordinator
> (w) 214-665-8544
> (c) 214-738-0674
> Loesel.matthew@epa.gov
>
> **From:** Karrah Shremshock <KShremshock@iterm.com>
> **Sent:** Saturday, March 23, 2019 1:00 PM
> **To:** spill12@tceq.texas.gov; Adams, Adam <Adams.Adam@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Mason, Steve <mason.steve@epa.gov>
> **Cc:** James McCormack <jmccormack@cteh.com>
> **Subject:** 2nd 80's Fire WMP
>
> Attached is the preliminary waste management plan for your review.
>
> Thanks,
>
> <image001.png>**Karrah Shremshock** | Hazardous Waste Operator
> Intercontinental Terminals Co, LLC
> 1943 Independence Pkwy S. | La Porte, TX 77571
> Office: 281.884.0357 | Cell: 281.515.1819
> kshremshock@iterm.com
>
> <image004.jpg>
>
> <WMP Draft 5.docx>

Message

From: Assunto, Carmen [Assunto.Carmen@epa.gov]
Sent: 3/21/2019 6:35:25 PM
To: Smith, Monica [smith.monica@epa.gov]
CC: Petersen, Chris [petersen.chris@epa.gov]
Subject: RE: ITC water testing

Thank you. Sorry on conference call with tceq.

From: Smith, Monica
Sent: Thursday, March 21, 2019 1:34 PM
To: Assunto, Carmen <Assunto.Carmen@epa.gov>
Cc: Petersen, Chris <petersen.chris@epa.gov>
Subject: FW: ITC water testing

See language on water

Monica Smith
Chief,
Planning, Prevention, Readiness & Response Section (6SF-EA)
214-665-6780 office
469-766-3398 cell
smith.monica@epa.gov

From: Adams, Adam
Sent: Thursday, March 21, 2019 12:58 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Smith, Monica <smith.monica@epa.gov>
Subject: Fwd: ITC water testing

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Adams, Adam" <Adams.Adam@epa.gov>
> **Date:** March 21, 2019 at 12:57:54 PM CDT
> **To:** "Caraviotis, Jerry (PCS)" <Jerry.Caraviotis@pcs.hctx.net>
> **Cc:** Daniel Tighe <Daniel.Tighe@WestonSolutions.com>, "Loesel, Matthew" <loesel.matthew@epa.gov>, "spill12@tceq.texas.gov" <spill12@tceq.texas.gov>, "MGaudet@iterm.com" <MGaudet@iterm.com>, Craig Hill <craig.Hill@pcs.hctx.net>, "Paige.Doelling@noaa.gov" <Paige.Doelling@noaa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>
> **Subject: Re: ITC water testing**
>
> Good afternoon,
>
> Briefly, EPA began water sampling yesterday in Tucker Bayou and again today in the ship channel. Our samples will be analyzed for VOCs, SVOCs, oil and grease, COD, and PFOS/PFOA.
>
> ITC has been taking water samples since Sunday and analyzing for VOCs, SVOCs, COD, and pH.

TCEQ began water sampling yesterday in T and is analyzing them for COD, VOC, SVOC, oil and grease, metals, total metals, TDD, TSS, and pH.

Regarding booms, ITC has contracted an OSRO to conduct response efforts on the water. They've installed containment boom in tucker bayou and the ITC dock.
They've installed containment boom around the cut to the battleship and absorbent boom around the area of the battleship north in the ship channel. Containment boom installed around a marshy area south of the battleship.

Regarding cleanup efforts at the tank battery, this is continuously being stabilized and reassessed and stabilized as quickly as possible.

Thanks
Adam

Sent from my iPhone

On Mar 21, 2019, at 11:01 AM, Caraviotis, Jerry (PCS) <Jerry.Caraviotis@pcs.hctx.net> wrote:

> Hi Adam,
> Commissioner Precinct 2 Garcia is asking us if any water testing, by who and where, if booms have been put up, and if on-site clean up has been started at ITC.
> I know a lot of this is premature, but if you have any info, it would be appreciated.
> Thank you.
>
> Jerry Caraviotis
> Water Specialist
> Harris County Pollution Control Services
> 101 South Richey, Suite H
> Pasadena, TX 77506
> 713 274 6334
> 713 274 6475 fax

Contact

Full Name: Alice Richardson

E-mail: ARICHARDSON@iterm.com

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202 – 2733

Office of the Regional Administrator

April 9, 2019

The Honorable Carol Alvarado
Texas Senate
Post Office Box 12068
Capitol Station
Austin, Texas 78711

Dear Ms. Alvarado:

Thank you for your letter of March 21, 2019, to U.S. Environmental Protection Agency (EPA) Administrator Andrew Wheeler and Texas Commission on Environmental Quality (TCEQ) Chairman Jon Niermann regarding the Intercontinental Terminals Company (ITC) facility in Deer Park, Texas. I was asked to reply because Texas falls within the jurisdiction of the EPA's Region 6 office.

On March 17, 2019, EPA deployed a Federal On-Scene Coordinator to oversee the ITC response to the tank fire. The EPA joined the TCEQ, the Harris County Pollution Control Services, and ITC in Unified Command to respond to this incident. This response has remained a priority for EPA. The EPA continues to stay involved in the emergency response phase of this incident collecting surface water samples and conducting air monitoring on a daily basis. We are utilizing the tools available to us and are taking additional steps to make data available to the public. One way we are keeping the public informed is through the Story Map Resource, which was created by EPA, in coordination with the TCEQ. The Story Map shows sampling data by location, allowing the public to see what is being measured in their community. The Story Map can be viewed on EPA's website at www.epareponse.gov/ITCfire or TCEQ's website https://www.tceq.texas.gov/response/itc-response-story-map.

Once the emergency response phase is completed, EPA's regulatory programs will work closely with TCEQ to complete an investigation and enforce any violation of any Federal and/or State regulations.

If you have any further questions, please contact me at (214) 665-2100, or your staff may contact Mr. Austin Vela, Congressional Liaison, at (214) 665-9792.

Sincerely,

David W. Gray
Acting Regional Administrator

ED_002627_00020128-00001

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/12/2019 3:02:27 PM
To: Smith, Monica [smith.monica@epa.gov]; Smalley, Bryant [smalley.bryant@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Webster, Susan [webster.susan@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]
Subject: Fwd: Tank Update 4-12-19

Sent from my iPhone

Begin forwarded message:

> **From:** Brent Weber <bweber@iterm.com>
> **Date:** April 12, 2019 at 8:47:30 AM CDT
> **To:** "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>
> **Subject: Re: Tank Update 4-12-19**
>
> It means the tank had been cleaned and we have tested it ourselves to ensure it is at zero LEL and zero Bz.
>
> Sent from my iPhone
>
> On Apr 12, 2019, at 8:09 AM, Crossland, Ronnie <Crossland.Ronnie@epa.gov<mailto:Crossland.Ronnie@epa.gov>> wrote:
>
> Brent
>
> Thanks for the table, it's very helpful. When you say complete and no further action, does that mean your Third party company you mentioned before has cleared it?
>
> Thanks
> Ronnie
>
> Sent from my iPhone
>
> On Apr 12, 2019, at 7:38 AM, Brent Weber <bweber@iterm.com<mailto:bweber@iterm.com>> wrote:
>
> Brent J. Weber
> Intercontinental Terminals Company LLC
> Senior Vice President, Sales and Marketing
> Office: 281-884-0277
> Cell: 225-806-5136
> Bweber@iterm.com<mailto:Bweber@iterm.com>

<Tank Update 4-12-19.pdf>

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/12/2019 3:02:03 PM
To: Smith, Monica [smith.monica@epa.gov]; Smalley, Bryant [smalley.bryant@epa.gov]; Delgado, Eric [Delgado.Eric@epa.gov]; Webster, Susan [webster.susan@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]
Subject: Fwd: Tank Update 4-12-19
Attachments: Tank Update 4-12-19.pdf; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

> **From:** Brent Weber <bweber@iterm.com>
> **Date:** April 12, 2019 at 7:38:16 AM CDT
> **To:** "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "Crossland, Ronnie (Crossland.Ronnie@epa.gov)" <Crossland.Ronnie@epa.gov>, "Adams, Adam (Adams.Adam@epa.gov)" <Adams.Adam@epa.gov>, spill12 <spill12@tceq.texas.gov>
> **Cc:** Mike Gaudet <MGaudet@iterm.com>
> **Subject: Tank Update 4-12-19**
>
> Brent J. Weber
> Intercontinental Terminals Company LLC
> Senior Vice President, Sales and Marketing
> Office: 281-884-0277
> Cell: 225-806-5136
> Bweber@iterm.com

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/12/2019 7:58:59 PM
To: Edlund, Carl [Edlund.Carl@epa.gov]; Gray, David [gray.david@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Smalley, Bryant [smalley.bryant@epa.gov]; Webster, Susan [webster.susan@epa.gov]
Subject: Fwd: ITC Response Partners Follow-up

Sent from my iPhone

Begin forwarded message:

> **From:** "Adams, Adam" <Adams.Adam@epa.gov>
> **Date:** April 12, 2019 at 2:55:49 PM CDT
> **To:** "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>
> **Cc:** Daniel Tighe <Daniel.Tighe@WestonSolutions.com>, "Spall, Amy" <amy.spall@westonsolutions.com>, "Patel, Anish" <patel.anish@epa.gov>, "Smith, Monica" <smith.monica@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
> **Subject: Fwd: ITC Response Partners Follow-up**
>
> FYI
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** "Torres-Segura, Rosio (HCOHSEM)" <Rosio.Torres-Segura@oem.hctx.net>
> > **Date:** April 12, 2019 at 2:52:36 PM CDT
> > **To:** "Torres-Segura, Rosio (HCOHSEM)" <Rosio.Torres-Segura@oem.hctx.net>
> > **Subject: ITC Response Partners Follow-up**
> >
> > Good afternoon:
> >
> > As a follow-up to yesterday's meeting at ITC, the Regional Joint Information Center (JIC) will organize a stakeholder/JIC meeting with partner agencies to collaborate on the language and the facts/figures needed to update the public on the Intercontinental Terminals Company (ITC) fire.
> >
> > Harris County Judge Lina Hidalgo has requested that the response agencies involved summarize their work, findings, and timelines for publication and discussion. A meeting to gather information and vet the messages will be scheduled, date TBD, followed by a joint news conference to update the public on health and environmental findings/issues.
> >
> > Judge Hidalgo understands that this a complex event and that once the emergency response is complete, the transition into recovery will lead to additional findings.

The following contacts are on the mailing list for this meeting, please let us know if we are missing anyone (operational/PIO) and provide contact information:

Joe Madden, Harris County Judge's Office (CJO)
Alex Triantaphyllis, Harris County Judge's Office (CJO)
Ashley San Miguel, Harris County Judge's Office (CJO)
Chief Laura Christensen, Harris County Fire Marshal's Office (HCFMO)
Asst. Chief Bob Royal, Harris County Hazmat (HCFMO)
Rachel Moreno, PIO, Fire Marshal's Office (HCFMO)
Bob Allen, Director, Harris County Pollution Control Services (HCPCS)
Latrice Babin, Harris County Pollution Control Services (HCPCS)
Dr. Umair Shah, Director, Harris County Public Health (HCPH)
Dr. Michael Schaffer, Harris County Public Health (HCPH)
Michael McClendon, Director, Harris County Public Health (HCPH)
Jennifer Kiger, Harris County Public Health (HCPH)
Elizabeth Perez, Harris County Public Health (HCPH)
Kevin Oditt, U.S. Coast Guard (USCG)
Adam Adams, U.S. Environmental Protection Agency (EPA)
Carmen Assunto, U.S. Environmental Protection Agency (EPA)
Janie Acevedo, U.S. Environmental Protection Agency (EPA)
Richard Chism, Texas Commission on Environmental Quality (TCEQ)
Andrea Morrow, Texas Commission on Environmental Quality (TCEQ)
Heather Biggs, Texas Parks & Wildlife Department (TPWD)
Rebecca Hensley, Texas Parks & Wildlife Department (TPWD)
Brent Weber, Incident Commander, ITC
Alice Richardson, PIO, ITC
Mark Sloan, Emergency Management Coordinator, Harris County Office of Homeland Security & Emergency Management (HCOHSEM)
Francisco Sanchez, Deputy Emergency Management Coordinator, Harris County Office of Homeland Security & Emergency Management (HCOHSEM)
Rosio Torres, Harris County Office of Homeland Security & Emergency Management/Regional Joint Information Center (HCOHSEM)

Thanking you in advance,

Rosio Torres
Harris County Office of Homeland Security & Emergency Management
Phone: 713-426-9542| Email: rosio.torres@oem.hctx.net
Website: ReadyHarris.org | Download our App
Twitter | Facebook | Instagram

AGREEMENT

Intercontinental Terminals Company, LLC, a Delaware limited liability company ("ITC") and the Marine Spill Response Corporation, a Tennessee nonprofit corporation ("MSRC") hereby agree as follows with respect to the ITC spill event:

1. MSRC has contracted with the Coast Guard to respond to this event.

2. ITC agrees to pay to MSRC all amounts invoiced by MSRC with a copy to the Coast Guard for this event, and to repair or replace any damaged MSRC vessels or equipment.. The parties agree that invoices will be delivered by MSRC directly to ITC.

3. MSRC will provide cost estimates to ITC, and ITC agrees to advance funds to MSRC based on those costs estimates.

4. MSRC's initial seven (7) day costs estimate is $700,000. ITC agrees to advance that full amount, along with a $200,000 security deposit to cover potential damage to MSRC vessels and equipment, by Wednesday March 27, 2019.

5. MSRC will provide additional cost estimates, and ITC agrees to advance the full amount of each estimate within three (3) business days of receipt.

6. ITC agrees to contract directly and pay directly for the cleaning of MSRC vessels and equipment after the response. ITC understand that the daily charges for MSRC vessels and equipment continue until the assets are cleaned and returned to MSRC.

This Agreement is made effective as of the initial call-out of resources for this event (on March 23, 2019).

Intercontinental Terminals Company, LLC

By: _____
Name: Mark Jeansonne
Its: Chief Financial Officer

Marine Spill Response Corporation

By: _____
Name: Michael J. Sample
Its: Vice President & General Counsel

Message

From: Petersen, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AD3A9D0A7FF44172A8A34A8BEDCF349F-PETERSEN, CHRIS]
Sent: 3/23/2019 8:22:56 PM
To: Lyssy, Gregory [lyssy.gregory@epa.gov]
CC: Monica Smith [Smith.Monica@epa.gov]; Ronnie Crossland [Crossland.Ronnie@epa.gov]; Loesel, Matthew [loesel.matthew@epa.gov]
Subject: FW: 2nd 80's Fire WMP
Attachments: WMP Draft 5.docx

Greg – Please review ASAP and provide comments.

From: Loesel, Matthew
Sent: Saturday, March 23, 2019 3:00 PM
To: Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Smith, Monica <smith.monica@epa.gov>
Subject: FW: 2nd 80's Fire WMP

We need a quick review of this by Waste expert, TCEQ is reviewing as authorized agency as well.

Matthew Loesel
US Environmental Protection Agency
Federal On-Scene Coordinator
(w) 214-665-8544
(c) 214-738-0674
Loesel.matthew@epa.gov

From: Karrah Shremshock <KShremshock@iterm.com>
Sent: Saturday, March 23, 2019 1:00 PM
To: spill12@tceq.texas.gov; Adams, Adam <Adams.Adam@epa.gov>; Loesel, Matthew <loesel.matthew@epa.gov>; Mason, Steve <mason.steve@epa.gov>
Cc: James McCormack <jmccormack@cteh.com>
Subject: 2nd 80's Fire WMP

Attached is the preliminary waste management plan for your review.

Thanks,

Karrah Shremshock | Hazardous Waste Operator
Intercontinental Terminals Co, LLC
1943 Independence Pkwy S. | La Porte, TX 77571
Office: 281.884.0357 | Cell: 281.515.1819
kshremshock@iterm.com

every action counts

Message

From: Crossland, Ronnie [Crossland.Ronnie@epa.gov]
Sent: 4/13/2019 9:28:43 PM
To: Smalley, Bryant [smalley.bryant@epa.gov]; Quinones, Edwin [quinones.edwin@epa.gov]; Smith, Monica [smith.monica@epa.gov]; Petersen, Chris [petersen.chris@epa.gov]; Webster, Susan [webster.susan@epa.gov]
Subject: Fwd: Request For Discharge Authorization
Attachments: Request For Discharge Authorization.pdf; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

> **From:** Brent Weber <bweber@iterm.com>
> **Date:** April 13, 2019 at 4:17:39 PM CDT
> **To:** "Crossland, Ronnie (Crossland.Ronnie@epa.gov)" <Crossland.Ronnie@epa.gov>, "Adams, Adam (Adams.Adam@epa.gov)" <Adams.Adam@epa.gov>
> **Cc:** "kelly.cook@tceq.texas.gov" <kelly.cook@tceq.texas.gov>, "harrison.reback@bakerbotts.com" <harrison.reback@bakerbotts.com>, "aileen.hooks@bakerbotts.com" <aileen.hooks@bakerbotts.com>
> **Subject: Request For Discharge Authorization**
>
> Attached is an ITC request for authorization to discharge incident related wastewater.
>
> Brent J. Weber
> Intercontinental Terminals Company LLC
> Senior Vice President, Sales and Marketing
> Office: 281-884-0277
> Cell: 225-806-5136
> Bweber@iterm.com

Message

From: Petersen, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=AD3A9D0A7FF44172A8A34A8BEDCF349F-PETERSEN, CHRIS]
Sent: 4/17/2019 10:25:24 PM
To: Craig Carroll [Carroll.Craig@epa.gov]
Subject: FW: Signed Discharge Authorization and Effluent Limitations and Monitoring Requirements
Attachments: Discharge Authorization and Effluent Limitations and Monitoring Requirements.pdf

From: Patel, Anish
Sent: Wednesday, April 17, 2019 5:23 PM
To: bweber@iterm.com
Cc: MGaudet@iterm.com; Adams, Adam <Adams.Adam@epa.gov>; Moore, Gary <Moore.Gary@epa.gov>; Crossland, Ronnie <Crossland.Ronnie@epa.gov>; Smalley, Bryant <smalley.bryant@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Smith, Monica <smith.monica@epa.gov>; Webster, Susan <webster.susan@epa.gov>; spill12@tceq.texas.gov; Spall, Amy <amy.spall@westonsolutions.com>
Subject: Signed Discharge Authorization and Effluent Limitations and Monitoring Requirements

Hello All,

Attached is the signed Discharge Authorization and Effluent Limitations and Monitoring Requirements document.

Sincerely,
Anish Patel
On Scene Coordinator (OSC)
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202
Office: (214)665-2288
Mobile: (469)510-6721

Message

From: Rauscher, Jon [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=49A15E22F3AE4B2F9AAF52AF494423BE-RAUSCHER, JON]
Sent: 3/19/2019 3:57:54 PM
To: Turner, Philip [turner.philip@epa.gov]
Subject: FW: CTEH air monitoring report - 6 a.m. on 3/19
Attachments: 111356 - Deer Park Tank Fire Air Monitoring Summary 2019-03-19 0600.pdf; ATT00001.htm

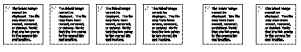
From: Adams, Adam
Sent: Tuesday, March 19, 2019 9:19 AM
To: Daniel Tighe <Daniel.Tighe@WestonSolutions.com>; Corey Bercher <Corey.Bercher@WestonSolutions.com>; Loesel, Matthew <loesel.matthew@epa.gov>; Benjamin Latham <b.latham@westonsolutions.com>; Rauscher, Jon <Rauscher.Jon@epa.gov>
Subject: Fwd: CTEH air monitoring report - 6 a.m. on 3/19

FYI for those that need it.

Sent from my iPhone

Begin forwarded message:

> **From:** "mark.hamlin@bakerbotts.com" <mark.hamlin@bakerbotts.com>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>, "spill12@tceq.texas.gov" <spill12@tceq.texas.gov>, "b.latham@westonsolutions.com" <b.latham@westonsolutions.com>, "Mason, Steve" <mason.steve@epa.gov>, "aniel.tighe@westonsolutions.com" <aniel.tighe@westonsolutions.com>, "jarod.s.toczko@usgc.mil" <jarod.s.toczko@usgc.mil>, "houstonscc@uscg.mil" <houstonscc@uscg.mil>, "uscgimdhouston@gmail.com" <uscgimdhouston@gmail.com>
> **Cc:** "harrison.reback@bakerbotts.com" <harrison.reback@bakerbotts.com>, "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, "MGaudet@iterm.com" <MGaudet@iterm.com>
> **Subject: CTEH air monitoring report - 6 a.m. on 3/19**
>
> Please find attached CTEH's air monitoring report from 6:00 am on March 19, 2019.
>
> **Mark Hamlin** | *Associate* | Baker Botts L.L.P
> One Shell Plaza | 910 Louisiana | Houston 77002
> Office: 713.229.1627 | Cell: 832.217.8073
> www.bakerbotts.com | mark.hamlin@bakerbotts.com



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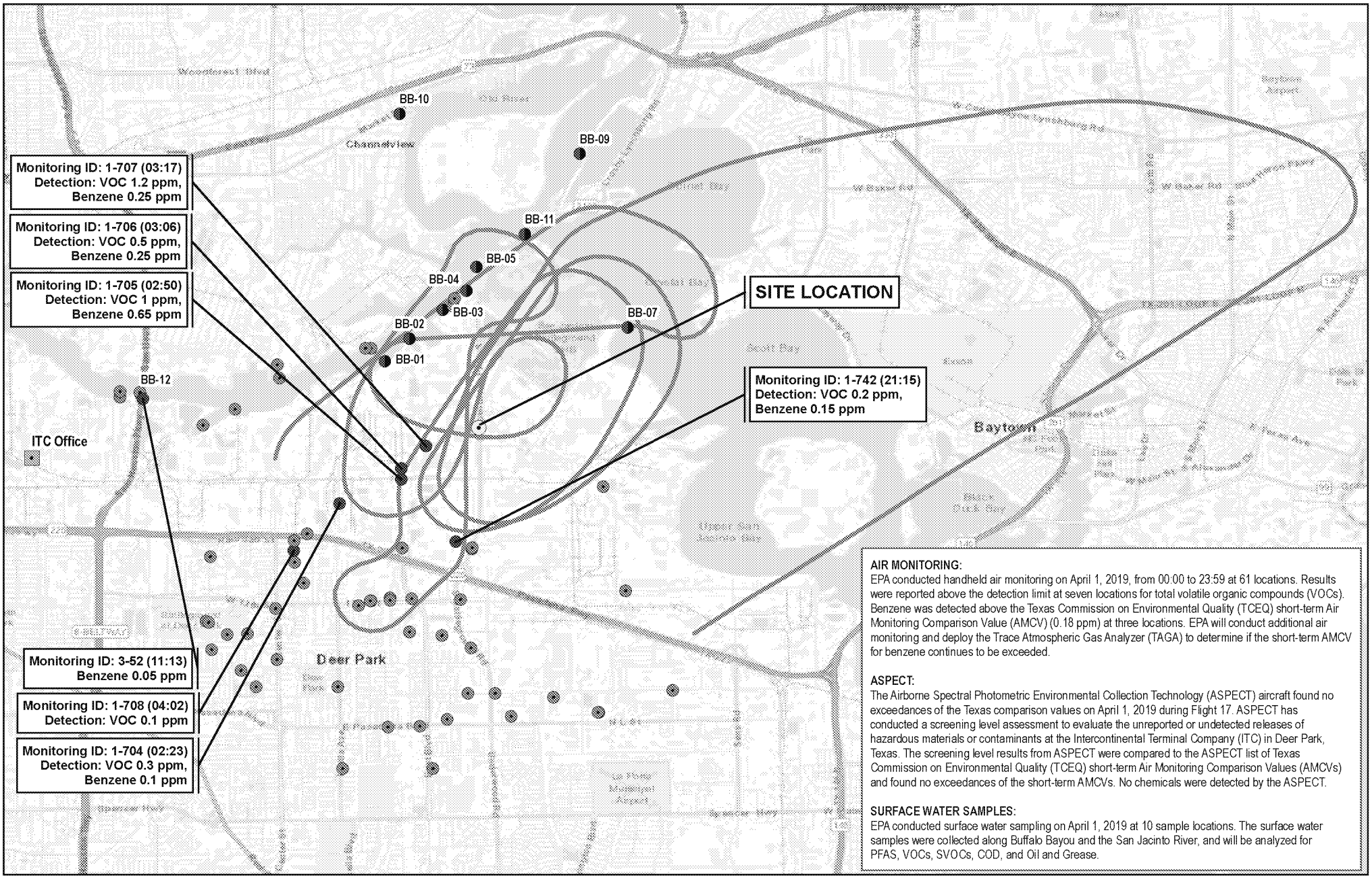
to anyone other than the recipient[s] listed above is prohibited. If you have received this message in error, please notify the sender immediately at the email address above and destroy any and all copies of this message.

Contact

Full Name: Alice Richardson

E-mail: ARICHARDSON@iterm.com



AIR MONITORING:
EPA conducted handheld air monitoring on April 1, 2019, from 00:00 to 23:59 at 61 locations. Results were reported above the detection limit at seven locations for total volatile organic compounds (VOCs). Benzene was detected above the Texas Commission on Environmental Quality (TCEQ) short-term Air Monitoring Comparison Value (AMCV) (0.18 ppm) at three locations. EPA will conduct additional air monitoring and deploy the Trace Atmospheric Gas Analyzer (TAGA) to determine if the short-term AMCV for benzene continues to be exceeded.

ASPECT:
The Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft found no exceedances of the Texas comparison values on April 1, 2019 during Flight 17. ASPECT has conducted a screening level assessment to evaluate the unreported or undetected releases of hazardous materials or contaminants at the Intercontinental Terminal Company (ITC) in Deer Park, Texas. The screening level results from ASPECT were compared to the ASPECT list of Texas Commission on Environmental Quality (TCEQ) short-term Air Monitoring Comparison Values (AMCVs) and found no exceedances of the short-term AMCVs. No chemicals were detected by the ASPECT.

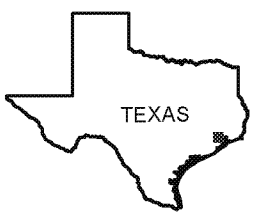
SURFACE WATER SAMPLES:
EPA conducted surface water sampling on April 1, 2019 at 10 sample locations. The surface water samples were collected along Buffalo Bayou and the San Jacinto River, and will be analyzed for PFAS, VOCs, SVOCs, COD, and Oil and Grease.

Legend

- ASPECT DATA (No Readings Above Benchmarks)
- ITC OFFICE LOCATION
- SITE LOCATION
- WATER SAMPLE LOCATION

AIR MONITORING LOCATION

- DETECTION
- NON DETECTION



AIR MONITORING MAP

INTERCONTINENTAL TERMINALS COMPANY FIRE
1943 INDEPENDENCE PARKWAY
LA PORTE, HARRIS COUNTY, TEXAS

REPORTING PERIOD #26
4/1/2019 00:00 - 4/1/2019 23:59

N
W E
S

0 0.75 1.5
SCALE IN MILES

For Official Use Only

EPA GIS
Printed: 8:11:52 AM 4/2/2019

ED_002627_00021915-00001

EPA and TCEQ Announce Story Map Resource

Interactive tool provides easy access for ITC fire data

EPA Media R6Press@epa.gov or 214 665-2200
TCEQ Media, 512-239-5000

DALLAS – (March 31, 2019) - Today, the U.S. Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) announce a new interactive resource to help keep the public updated and informed about the response activities for the Intercontinental Terminals Company LLC (ITC) Fire in La Porte, Texas.

The new resource, a collaborative, interactive "story map," can be viewed on EPA's website at response.epa.gov/ITCTankFire. EPA and TCEQ's response actions, as well as maps, photos and sampling locations are featured.

On March 17, 2019, in response to a tank fire at the ITC facility, EPA, TCEQ, along with state and local agencies joined ITC in a Unified Command. EPA and TCEQ continue to be onsite for the emergency response focused on providing the assistance and coordination needed to address any discharges from the site. EPA and TCEQ have been conducting water sampling and air monitoring throughout the affected areas from the onset of the response.

TCEQ and the EPA have decades of experience responding to natural and man-made disasters. Both agencies are assisting in this response with equipment and expertise in response management and air and water quality testing and analysis. EPA has conducted ground level air monitoring with hand held equipment and the Airborne Spectral Photometric Environmental Collection Technology aircraft (ASPECT). The EPA Trace Atmosphere Gas Analyzer (TAGA) has also been monitoring for organic compounds in the air. The TCEQ continues to work around the clock, pulling in inspectors from regions around the state to conduct air monitoring and water quality sampling. Test results are being posted to the TCEQ's incident website daily.

Connect with EPA Region 6:
On Facebook: https://www.facebook.com/eparegion6
On Twitter: https://twitter.com/EPAregion6
Activities in EPA Region 6: http://www.epa.gov/aboutepa/region6.htm

Connect with the TCEQ:
Directly to the map: https://www.tceq.texas.gov/response/itc-response-story-map
Updates on state data and activities: https://www.tceq.texas.gov/response/itc-terminal-fire-update
On Facebook: https://www.facebook.com/TexasCommissionOnEnvironmentalQuality
On Twitter: @TCEQ

###

Message

From: Turner, Philip [Turner.Philip@epa.gov]
Sent: 3/22/2019 3:57:58 PM
To: Smith, Monica [smith.monica@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; shaihka.taimur@epa.gov; Delgado, Eric [Delgado.Eric@epa.gov]; Patel, Anish [patel.anish@epa.gov]; Mason, Steve [mason.steve@epa.gov]
Subject: RE: Foam

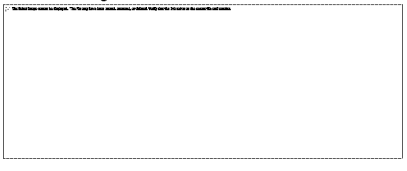
So, does this list actually reflect what was used… or is that also a matter of seeing once getting into the area?

Are the two SDS sheets provided the other day what the First Responders brought & used?

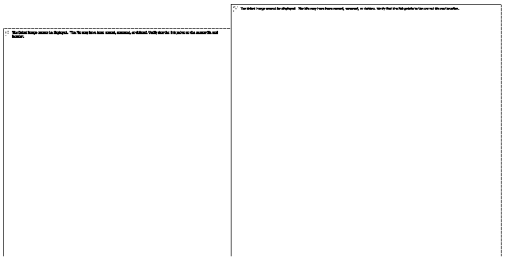
From: Smith, Monica
Sent: Friday, March 22, 2019 5:21 AM
To: Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; shaihka.taimur@epa.gov; Delgado, Eric <Delgado.Eric@epa.gov>; Patel, Anish <patel.anish@epa.gov>
Subject: Fwd: Foam

Sent from my iPhone

Begin forwarded message:

> **From:** "Mason, Steve" <mason.steve@epa.gov>
> **To:** "Adams, Adam" <Adams.Adam@epa.gov>, "Loesel, Matthew" <loesel.matthew@epa.gov>, "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>, "Smith, Monica" <smith.monica@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
> **Subject: FW: Foam**
>
> Ronnie, Monica… here is the list of the foams that were ordered by ITC during the response, as well as the SDS for each one…
>
> *With Regards, Steve*
>
> 
>
> **From:** Reid McLelland <RMcLelland@iterm.com>
> **Sent:** Friday, March 22, 2019 12:47 AM
> **To:** spill12
> **Cc:** Mike Gaudet; Mike Taylor
> **Subject:** Foam
>
> These are the foams that ITC ordered. Keep in mind this does not include foams that were brought to the site by CIMA responders, even though some of those may be the same as the ones attached. We will have to look at those totes when personnel can get into the area.

Reid McLelland
Environmental Compliance Specialist
Intercontinental Terminals Co LLC
1943 Independence Pkwy S. | LaPorte, TX 77571
D: 281.884.0308
C: 281.838.7567
rmclelland@iterm.com



"An ounce of prevention is worth a pound of cure." – Benjamin Franklin

The content image001.jpg of type has been blocked.

Message

Sent: 3/23/2019 7:19:32 PM
To: Adams, Adam [Adams.Adam@epa.gov]; Rauscher, Jon [Rauscher.Jon@epa.gov]; Smith, Monica [smith.monica@epa.gov]
Subject: RE: 20190323_23 Mar 21 - CTEH Report: 3/22 - 3/23

1) Table 1: What action is being taken when their action level is exceeded?
2) Table 1: how was the basis for the action level determined where the action level is a fraction of an AEGL, TEEL or PAC?

From: Adams, Adam
Sent: Saturday, March 23, 2019 11:16 AM
To: Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>; Smith, Monica <smith.monica@epa.gov>
Subject: Fwd: 20190323_23 Mar 21 - CTEH Report: 3/22 - 3/23

Any comments

Sent from my iPhone

Begin forwarded message:

> **From:** Mike Gaudet <MGaudet@iterm.com>
> **Date:** March 23, 2019 at 8:55:41 AM CDT
> **To:** "Adams.adam@epa.gov" <Adams.adam@epa.gov>, "spill12@tceq.texas.gov" <spill12@tceq.texas.gov>, "Mason, Steve" <mason.steve@epa.gov>, "craig.hill@pcs.hctx.net" <craig.hill@pcs.hctx.net>, "johnathan.martin@pcs.hctx.net" <johnathan.martin@pcs.hctx.net>, Daniel Tighe <Daniel.Tighe@WestonSolutions.com>, "b.latham@WestonSolutions.com" <b.latham@WestonSolutions.com>, "houstonscc@uscg.mil" <houstonscc@uscg.mil>, "jarod.s.toczko@uscg.mil" <jarod.s.toczko@uscg.mil>, "uscgimdhouston@gmail.com" <uscgimdhouston@gmail.com>
> **Cc:** "harrison.reback@bakerbotts.com" <harrison.reback@bakerbotts.com>, "matthew.kuryla@bakerbotts.com" <matthew.kuryla@bakerbotts.com>, Mike Taylor <mtaylor@iterm.com>, "Reid McLelland" <RMcLelland@iterm.com>, ITC Incident <itcincident@iterm.com>, Mike Gaudet <MGaudet@iterm.com>
> **Subject: 20190323_23 Mar 21 - CTEH Report: 3/22 - 3/23**
>
> Please find attached the latest CTEH report. Please review and advise.
>
> **Michael Gaudet**
> Environmental Compliance Manager
> Intercontinental Terminals Company LLC
> 1943 Independence Pkwy S. | LaPorte, TX 77571
> D: 281.884.0360
> C: 281.787.8256
> mgaudet@iterm.com