| | |
|---|---|
| **From:** | Ashley K. Wadick |
| **To:** | Lori Wilson; Emily Lindley; Ramiro Garcia; Tracy Miller; Susan Johnson; Jonathan Walling; Kelly Cook; Melinda Johnston; Melinda Torres; Michelle Havelka; Michael Honeycutt; Ryan Vise; Sam Gammage; Jason Ybarra; Todd Thompson; Guadalupe Quiroz; Andy Goodridge; Nicole Bealle; La"Trenda McClellan; Sabine Lange; Richard Chism |
| **Cc:** | Coleman.Sam@epa.gov; Gray, David; smalley.bryant@epa.gov; "bob.allen@pcs.hctx.net" |
| **Subject:** | Arkema - FW: Air Monitoring |
| **Date:** | Saturday, September 02, 2017 12:15:06 PM |
| **Attachments:** | Copy of HazMat Air Monitoring.xlsx |
| **Importance:** | High |

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Attached is information from Weston Solutions, the EPA's contractors.

Thank you.

Ashley

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**From:** Guadalupe Quiroz
**Sent:** Saturday, September 02, 2017 12:05 PM
**To:** Ashley K. Wadick <Ashley.K.Wadick@tceq.texas.gov>
**Cc:** Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Todd Thompson <Todd.Thompson@tceq.texas.gov>
**Subject:** FW: Air Monitoring
**Importance:** High

Updated air monitoring from Weston Solutions.

**Guadalupe Quiroz**
Emergency Response Work Leader
Texas Commission on Environmental Quality
5425 Polk Street, Ste. H
Houston, TX 77023
**Phone** 713.767.3608

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**From:** Brantley, Toryus [mailto:Toryus.Brantley@WestonSolutions.com]
**Sent:** Saturday, September 02, 2017 12:01 PM
**To:** Bernier, Roberto <bernier.roberto@epa.gov>; Smalley, Bryant <smalley.bryant@epa.gov>; Guadalupe Quiroz <guadalupe.quiroz@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; rausher.jon@epa.gov; turner.philip@epa.gov; R6HarveyENVL@epa.gov; Graves, Suddha <Suddha.Graves@WestonSolutions.com>; Latham (Polinko), Janine <Janine.Latham@WestonSolutions.com>

**Cc:** Crow, David <David.Crow@WestonSolutions.com>
**Subject:** Air Monitoring
**Importance:** High

Good morning,

Please see updated air monitoring table for surveys completed thus far. I have crews out on a continuous basis monitoring so I'm updating as we go. If you have any questions or concerns, please give me a call.

Respectfully,

***Toryus K. Brantley***
**Weston Solutions, Inc.**
5599 San Felipe, Suite 700
Houston, Texas 77056
(713) 985-6679 Direct
(713) 985-6703 Fax
(803) 361-0593 Cell
Toryus.Brantley@WestonSolutions.com

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| Time | | Latitude | Longitude | LEL | O2 | SO2 | H2S |
|---|---|---|---|---|---|---|---|
| 1143 | CR 4876 | 29.95194 | -94.98155 | 0 | 20.9 | 0 | 0 |
| 1148 | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 | 0 |
| 1155 | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 | 0 |
| 1157 | CR 486 | 29.91407 | -94.94888 | 0 | 20.9 | 0 | 0 |
| 1202 | CR 4873/CR 4879 | 29.94514 | -94.97216 | 0 | 20.9 | 0 | 0 |
| 1217 | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 | 0 |

| Time | | Latitude | Longitude | LEL | O2 | SO2 | H2S |
|---|---|---|---|---|---|---|---|
| ---- | CR 4876 | 29.95194 | -94.98155 | (New coordinates due to Harris Co Hazmat blc | | | |
| 1418 | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 | 0 |
| 1338 | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 | 0 |
| 1430 | CR 486 | 29.91407 | -94.94888 | 0 | 20.9 | 0 | 0 |
| 1334 | CR 4873/CR 4879 | 29.94514 | -94.97216 | 0 | 20.9 | 0 | 0 |
| 1410 | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 | 0 |
| 1459 | CR 4906 | | | 0 | 20.9 | 0 | 0 |
| 1356 | CR 4874 | 29.95267 | -94.97697 | 0 | 20.9 | 0 | 0 |

| Time | | Latitude | Longitude | LEL | O2 | SO2 | H2S |
|---|---|---|---|---|---|---|---|
| 1915 | CR 4876 | 29.95200 | -94.98151 | 0 | 20.9 | 0 | 0 |
| 1926 | CR 4874 | 29.94846 | -94.9787 | 0 | 20.9 | 0 | 0 |
| 1938 | CR 4873 | 29.94506 | -94.97204 | 0 | 20.9 | 0 | 0 |
| 1955 | CR 4865 | 29.94303 | -94.96055 | 0 | 20.9 | 0 | 0 |

| Time | | Latitude | Longitude | LEL | O2 | SO2 | H2S |
|---|---|---|---|---|---|---|---|
| 947 | CR 4906 | 29.968680 | -94.973900 | 0 | 20.9 | 0 | 0 |
| 958 | CR 48823 | 29.962920 | -94.979000 | 0 | 20.9 | 0 | 2 |
| 1021 | CR 4876 | 29.951940 | -94.981600 | 0 | 20.9 | 0 | 0 |
| 1041 | CR 4874 | 29.948490 | -94.977700 | 0 | 20.9 | 0 | 2 |
| 1051 | CR 4873/CR 4879 | 29.945140 | -94.972220 | 0 | 20.9 | 0 | 0 |
| 1120 | CR 4865 | 29.943130 | -94.959600 | 0 | 20.9 | 0 | 0 |
| 1129 | CR 486 | 29.914070 | -94.948900 | 0 | 20.9 | 0 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 1403 | 1-Sep | CR 4876 | 29.95194 | -94.9816 | 0 | 20.9 | 0 |
| 1447 | 1-Sep | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 |
| 1335 | 1-Sep | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 |
| 1455 | 1-Sep | CR 486 | 29.91407 | -94.9489 | 0 | 20.9 | 0 |
| 1413 | 1-Sep | CR 4873/CR 4879 | 29.94514 | -94.9722 | 0 | 20.9 | 0 |
| 1348 | 1-Sep | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 |
| 1323 | 1-Sep | CR 4906 | 29.96868 | -94.9739 | 0 | 20.9 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 1710 | 1-Sep | CR 4876 | 29.95194 | -94.9816 | 0 | 20.9 | 0 |
| 1725 | 1-Sep | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 |
| 1720 | 1-Sep | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1750 | 1-Sep | CR 486 | 29.91407 | -94.9489 | 0 | 20.9 | 0 |
| 1755 | 1-Sep | CR 4873/CR 4879 | 29.94514 | -94.9722 | 0 | 20.9 | 0 |
| 1651 | 1-Sep | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 |
| 1633 | 1-Sep | CR 4906 | 29.96868 | -94.9739 | 0 | 20.9 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 1825 | 1-Sep | CR 4876 | 29.95194 | -94.9816 | 0 | 20.9 | 0 |
| 1901 | 1-Sep | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 |
| 1835 | 1-Sep | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 |
| | 1-Sep | CR 486 | 29.91407 | -94.9489 | | | |
| 1848 | 1-Sep | CR 4873/CR 4879 | 29.94514 | -94.9722 | 0 | 20.9 | 0 |
| 1814 | 1-Sep | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 |
| 1811 | 1-Sep | CR 4906 | 29.96868 | -94.9739 | 0 | 20.9 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 1906 | 1-Sep | CR 4906 | 29.96868 | -94.9739 | 0 | 20.9 | 0 |
| 1911 | 1-Sep | CR 486 | 29.91407 | -94.9489 | 0 | 20.9 | 0.3 |
| 1926 | 1-Sep | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 |
| 1948 | 1-Sep | CR 486 | 29.91407 | -94.9489 | 0 | 20.9 | 0 |
| 1957 | 1-Sep | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 |
| 2000 | 1-Sep | CR 610/CR 602 | 30.01661 | -94.9761 | 0 | 20.9 | 0 |
| 2009 | 1-Sep | CR 4876 | 29.95194 | -94.9816 | 0 | 20.9 | 0 |
| 2010 | 1-Sep | 602/603 | | | 0 | 20.9 | 0 |
| 2024 | 1-Sep | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 |
| 2029 | 1-Sep | CR 4882/CR 48824 | | | 0 | 20.9 | 0 |
| 2029 | 1-Sep | CR4873/CR4879 | 29.94514 | -94.9722 | 0 | 20.9 | 0 |
| 2043 | 1-Sep | CR 602/CR 6026 | | | 0 | 20.9 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 2226 | 1-Sep | CR 4876 | 29.95194 | -94.9816 | 0 | 20.9 | 0 |
| 2314 | 1-Sep | CR 4865 | 29.94313 | -94.9596 | 0 | 20.9 | 0 |
| 2237 | 1-Sep | CR 4874 | 29.94849 | -94.9777 | 0 | 20.9 | 0 |
| | 1-Sep | CR 486 | 29.91407 | -94.9489 | | | |
| 2248 | 1-Sep | CR 4873/CR 4879 | 29.94514 | -94.9722 | 0 | 20.9 | 0 |
| 2253 | 1-Sep | CR 48823 | 29.96292 | -94.979 | 0 | 20.9 | 0 |
| 2231 | 1-Sep | CR 4906 | 29.96868 | -94.9739 | 0 | 20.9 | 0 |
| 2232 | 1-Sep | CR 602/CR 612 | | | 0 | 20.9 | 0 |
| 2248 | 1-Sep | CR 612/CR 611 | | | | | |
| 2318 | 1-Sep | CR 612/CR 605 | | | 0 | 20.9 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 0023 | 2-Sep | CR 602/CR 612 | 30.01586 | -95.0163 | 0 | 20.9 | 0 |
| 0038 | 2-Sep | CR 602/CR 6026 | 30.01576 | -95.0242 | 0 | 20.9 | 0 |
| 0046 | 2-Sep | CR 6026/CR 6027 | 30.00573 | -95.027 | 0 | 20.9 | 0 |
| 0054 | 2-Sep | 2250 CR 6026 | 30.00065 | -95.027 | 0 | 20.9 | 0 |
| 0104 | 2-Sep | CR 602 | 30.01564 | -95.0274 | 0 | 20.9 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0257 | 2-Sep | CR490 | | | 0 | 20.9 | 0 |
| 0257 | 2-Sep | CR 602 @ CR 610 | | | 0 | 20.9 | 0 |
| 0306 | 2-Sep | CR 610 @ CR 605 | | | 0 | 20.9 | 0 |
| 0330 | 2-Sep | CR 48823 | | | 0 | 20.9 | 0 |
| 0333 | 2-Sep | CR 605 @ CR 603 | | | 0 | 20.9 | 0 |
| 0337 | 2-Sep | CR 605 @ CR 6053 | | | 0 | 20.9 | 0 |
| 0348 | 2-Sep | CR 4876 | | | 0 | 20.9 | 0 |
| 0354 | 2-Sep | CR 605 @ CR 6011 | | | 0 | 20.9 | 0 |
| 0354 | 2-Sep | CR 4873 | | | 0 | 20.9 | 0 |
| 0401 | 2-Sep | CR 4873 @ CR 4879 | | | 0 | 20.9 | 0 |

| Time | Date | | Latitude | Longitude | LEL | O2 | H2S |
|---|---|---|---|---|---|---|---|
| 1030 | 2-Sep-17 | CR 602 @ CR 612 | | | 0 | 20.9 | 0 |
| 1039 | 2-Sep-17 | CR 602 @ CR 6026 | | | 0 | 20.9 | 0 |
| 1045 | 2-Sep-17 | CR 6027 @ CR 6026 | | | 0 | 20.9 | 0 |
| 1049 | 2-Sep-17 | CR 2250 @ CR 6026 | | | 0 | 20.9 | 0 |
| 1059 | 2-Sep-17 | CR 602 CR 611 | | | 0 | 20.9 | 0 |
| 1113 | 2-Sep-17 | CR 37 @ CR 6052 | 30.03326 | -94.9374 | 0 | 20.9 | 0 |
| 1116 | 2-Sep-17 | CR 6052 @ CR 6053 | 30.02962 | -94.9419 | 0 | 20.9 | 0 |
| 1129 | 2-Sep-17 | CR 602 @ CR 603 | 30.01673 | -94.9592 | 0 | 20.9 | 0 |

| CO | PH Water |
|---|---|
| 0 | |
| 0 | |
| 0 | |
| 0 | |
| 0 | |
| 0 | |

| CO | PH Water | |
|---|---|---|
| ɔcking old coordinates) | | |
| 0 | | |
| 0 | | |
| 0 | | |
| 0 | | |
| 0 | 6 | |
| 0 | | |
| 0 | 6 | (New Coordinates) |

| CO | VOC |
|---|---|
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |

| CO | VOC | |
|---|---|---|
| 0 | 11.8 | * May be due to damaged well heads in the area |
| 0 | 10.1 | *May be due to damaged well heads in the area |
| 0 | 6.7 | *May be due to damaged well heads in the area |
| 0 | 1.4 | *May be due to damaged well heads in the area |
| 0 | 0.2 | *May be due to damaged well heads in the area |
| 0 | 0 | |
| 0 | 0 | |

| CO | SO2 | VOC |
|---|---|---|
| 0 | 0 | 8.9 |
| 0 | 0 | 1.7 |
| 0 | 0 | 7.1 |
| 0 | 0 | 1.2 |
| 0 | 0 | 1.5 |
| 0 | 0 | 6.6 |
| 0 | 0 | 11.1 |

| CO | SO2 | VOC | |
|---|---|---|---|
| 0 | 0 | 9.6 | Plus One Weston Employee |
| 0 | 0 | 1.5 | |
| 0 | 0 | 2.1 | |

| | | | | |
|---|---|---|---|---|
| 0 | 0 | | 0 | |
| 0 | 0 | | 0 | 3 |
| 0 | 0 | 0 | 6 | |
| 0 | 0 | 6 | 11.1 | |

| CO | SO2 | VOC | |
|---|---|---|---|
| 0 | 0 | 0 | NO smell, no taste, no smoke |
| 0 | 0 | 0 | NO smell, no taste, no smoke |
| 0 | 0 | 0 | No smell, no taste, no smoke |
| | | | |
| 0 | 0 | 0 | Slight haze in the tree line but dissipating quickly |
| 0 | 0 | 0 | NO smell, no taste, no smoke |
| 0 | 0 | 0 | No smell, no taste, smoke not lingering |

| CO | SO2 | VOC | |
|---|---|---|---|
| 0 | 0 | | Air quality clear |
| 0 | 0 | | Air quality clear |
| 0 | 0 | 9.7 | Air quality clear |
| 0 | 0 | 9.2 | Air quality clear |
| 0 | 0 | 4.2 | Air quality clear |
| 0 | 0 | | Air quality clear |
| 0 | 0 | 9.1 | Air quality clear |
| 0 | 0 | | Air quality clear |
| 0 | 0 | 9 | Air quality clear |
| 0 | 0 | | Air quality clear |
| 0 | 0 | 5.7 | Air quality clear |
| 0 | 0 | | Air quality clear |

| CO | SO2 | VOC | |
|---|---|---|---|
| 0 | 0 | 9 | |
| 0 | 0 | 0 | |
| 0 | 0 | 9 | |
| | | | |
| 0 | 0 | 9.6 | |
| 0 | 0 | 0 | |
| 0 | 0 | 0.1 | |
| 0 | 0 | 13 | Strong odor with a slight haze |
| | | | |
| 0 | 0 | | |

| CO | SO2 | VOC | |
|---|---|---|---|
| 0 | 0 | 9 | |
| 0 | 0 | 9.7 | |
| 0 | 0 | 10.5 | |
| 0 | 0 | 10 | |
| 0 | 0 | 10.8 | Strong smell of fingernail polish/varasol |

| | |
|---|---|
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |

| CO | SO2 | VOC |
|---|---|---|
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |

| Time | Date | Latitude | Longitude | LEL | O2 | SO2 | H2S | CO |
|---|---|---|---|---|---|---|---|---|
| 1100 | 31-Aug-17 | 29.934800 | -95.031300 | 0 | 20.9 | 0 | 0 | 0 |
| 1506 | 31-Aug-17 | 29.934400 | -95.031300 | 0 | 20.9 | 0.1 | 0 | 0 |
| 1540 | 31-Aug-17 | 29.961000 | -95.048500 | 0 | 20.9 | 0.1 | 0 | 0 |
| 2400 | 1-Sep-17 | 29.934400 | -95.031300 | 0 | 20.9 | 0 | 0 | 0 |
| 2415 | 1-Sep-17 | 29.961000 | -95.048500 | 0 | 20.9 | 0 | 0 | 0 |
| 1024 | 1-Sep-17 | 29.961060 | -95.048617 | 0 | 20.9 | 0 | 0 | 0 |
| 1059 | 1-Sep-17 | 29.934672 | -95.031288 | 0 | 20.9 | 0 | 0 | 0 |
| 1600 | 1-Sep-17 | 29.929833 | -95.041608 | 0 | 20.9 | 0 | 0 | 0 |
| 1730 | 1-Sep-17 | 29.934470 | -95.031254 | 0 | 20.9 | 0.3 | 0 | 0 |
| 1749 | 1-Sep-17 | 29.961100 | -95.047800 | 0 | 20.9 | 0.3 | 0 | 0 |
| 1811 | 1-Sep-17 | 29.924987 | -95.041326 | 0 | 20.9 | 0.3 | 0 | 0 |
| 1823 | 1-Sep-17 | 29.961090 | -95.048363 | 0 | 20.9 | 0.3 | 0 | 0 |
| 1836 | 1-Sep-17 | 29.227410 | -95.041029 | 0 | 20.9 | 0.3 | 0 | 0 |
| 1849 | 1-Sep-17 | 29.934447 | -95.031254 | 0 | 20.9 | 0.2 | 0 | 0 |
| 1927 | 1-Sep-17 | 29.934447 | -95.031254 | 0 | 20.9 | 0 | 0 | 0 |
| 944 | 2-Sep-17 | 29.961088 | -95.048563 | 0 | 20.9 | 0 | 0 | 0 |
| 1004 | 2-Sep-17 | 29.932988 | -95.032647 | 0 | 20.9 | 0 | 0 | 0 |

| VOC | |
|---|---|
| 0 | |
| 0.6 | |
| 0.1 - 0.4 | |
| 0 | |
| 0 | |
| 0 | |
| 0 | |
| 0 | slight solvent odor |
| 0.2 | |
| 0.1 | |
| 0.2 | |
| 0 | |
| 0 | |
| 0 | |
| 0.1 | |
| 0 | |
| 0 | |