Lithium
Innovations
E.R.

Rite in the Rain®
ALL-WEATHER
FIELD
Nº 351FX

TDD#:
S05-1001-1703-202
Logbook 1 of 1

MADE IN TACOMA
— SINCE 1916 —
Rite in the Rain®
— DEFYING MOTHER NATURE —

Name _____

Address _____

START FIELD LOGBOOK

Logbook Tracking Number DE 100
Site Name Lithium Innovation E.R.
Issue to Michael Browning
Date Issued 4/5/17
TDD # S05-0001-1703-202

MADE USA RITE GREEN Archival

RiteintheRain.com

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PAGE	REFERENCE	DATE

Toledo, OH

Lithium Innovations E.R. 3/2/17

1950: START Thomas and Browning onsite
OSC Justice requested air samples for
metals and asbestos.

~~SAM 008 (K) ED~~ ~~Flow Rate Start~~
20070502015 2.464/min
~~20070502012~~ (K)
20070502013 2.566

Backnote:

1700: START Thomas recieved call from OSC
Gulch with directions to the location of the
lithium fire ER.

1740: START Thomas arrived at command post at
the corner of Campbell & Junction in Toledo.

1750: START recieved 1 box of flouride test
paper and one box of pH paper from Toledo
Fire Department to collect pH paper readings
downwind of the fire. START travelled with
City of Toledo Haz Mat member Christian to
monitor outside the plume area with MultiRAE
Pro and pH paper

Location	pH	MultiRAE	Observations
S. Hawley and OH-2	7	Background	outside evacuation zone at 7-11

Toledo, OH

Lithium Innovations E.R. 3/2/17

Location	pH	MultiRAE	Observations
S. Hawley and Klondike	7	Background	inside evac zone
S. Hawley and Campbell	7	Background	odor observed
Wellington and Campbell	7	Background	No odor
Buckingham and Huag	7	Background	No odor

1830: OSC Gulch indicated that ~4
pounds was reported in the building.
~~1940~~ (K) 1940: START Browning measured
vacuum on SUMMA canister.
Summa ID: ACQ 1758
Start pressure -28.5
~~2230~~ - START BROWNING, THOMAS ENTER
PLUME WITH WILLIAMS & NEWTON ON
RESCUE. TAKE pH, GRAB SUMMA CANISTER,
& TAL & ASBESTOS AIR SAMPLING GILLIANS

Rite in the Rain

Toledo, OH

LITHIUM WAREHOUSE FIRE ER 3/2/17

TOLEDO, OH

WEATHER: 27° CLEAR / WIND: 12 MPH ENE

2032 - TOOK GRAB SUMMA, STARTED GILLIAN PUMPS: 20070502013 - ASBESTOS CARTRIDGE. 20070502015 - TAL CARTRIDGE. SET UP ON SOUTHEAST CORNER OF BURNING BUILDING IN THICKEST PART OF PLUME. BACK SIDE OF BUILDING STILL BURNING. ——— WW

2045 - pH PAPER DID NOT REVEAL ANYTHING. OSC JUSTICE WOULD LIKE START TO SET TWO MORE GILLIANS - ONE FOR TAL METALS, - ONE FOR ASBESTOS. ALSO, HE WOULD LIKE ANOTHER pH SAMPLE TAKEN. ——— WW

2305 START BROWNING CALIBRATES GILLIANS 20070502011 - TAL METALS - 2.586 L/MIN 20070502012 - ASBESTOS - 2.567 L/MIN

2341 - START DEPLOYS DOWNWIND GILLIANS, ALSO TOOK pH PAPER READING - NO CHANGE - NEUTRAL. GILLIANS WERE ON HOWLEY STREET.

1215 - START THOMAS, HARTWELL, NEWTON DEPART FOR REST. START WILLIAMS & BROWNING STAY TO MONITOR THROUGHOUT THE NITE. TOOK MULTI RDG READING @ 7 STATIONS AROUND THE SITE - MOSTLY DOWNWIND FROM

Toledo, OH

LITHIUM WAREHOUSE FIRE ER. 3/3/17

TOLEDO, OH

WEATHER 27° CLEAR / WIND: 5 MPH ENE

THE PLUME. STATION #1 IS SW. OF THE PLUME - THE ONLY UPWIND STATION. ALL OTHERS #2-7 ARE DOWNWIND. ALL READINGS AT ALL STATIONS, ALL NIGHT, WERE 0.0 ppm/ppb. TOOK pH PAPER @ STATION 3 ~ 6.5 pH.

0021 - START COLLECTED TAL METALS & ASBESTOS CARTRIDGES FROM 1ST AIR SAMPLING LOCATION IN THE PLUME.

0045 - START MEASURED ENDING FLOW RATE FOR BOTH GILLIAN PUMPS FROM 1ST SAMPLING STATION. 20070502015 - 2.491 L/MIN 20070502013 - 2.627 L/MIN ——— WW

0125 - START COLLECTED CARTRIDGES FROM SECOND, DOWNWIND SAMPLING LOCATION.

0140 - START MEASURED ENDING FLOW RATE FOR SECOND STATION. → → → ———

20070502011 = 2.642 L/MIN ———

20070502012 = 2.548 L/MIN ———

0750 START Hartwell + Newton, Thomas OH onsite, are shown 7 monitoring locations.

0915 START Browning, Williams, ~~Thomas~~ BJH offsite

Rite in the Rain

Toledo, OH

3/3/17 (Cont.) Lithium Innovations E.R.

0915 START Newton + Thomas offsite to deliver air samples to analytical laboratories in Toledo, OH (Asbestos, TTL) + Brighton, MI (TAL metals, Brighton Analytical. —— BJH

0930-11:05 START Hartwell air monitors at Stations 1-7 w/ MultiRAE Pro and DataRAMs (<2.5 microns, + <10 microns). No detections were found during monitoring ~~of VOCs, CE~~ BJH with the MultiRAE Pro. Sub-2.5/10 micron particulates were as follows:

STATION	DATARAM (2.5)	DataRAM (10)
1	1.7 ug/m³	2.7 ug/m³
2	1.7	2.4
3	1.7	3.2
4	2.8	2.3
5	66.6	71.3
6	9.1	8.7
7	20.9	18.6

1105 Informed OSC Justice of air monitoring results. He didn't see a reason for continuing air monitoring w/ data collected to now.

1145 OSC Justice confirmed w/ Fire Chief further air monitoring isn't required.

1030 START Newton on site. —— BJH

1200 OSC Justice, + START offsite —— BJH

Michael Brown
4/5/17

Rite in the Rain