## 113-117 Clinton North MONROE COUNTY, NEW YORK

## **Construction Completion Report**

**NYSDEC Site Number: C828195** 

#### **Prepared for:**

Clinton North Development Corporation c/o Tallo Properties 113-117 North Clinton Avenue Rochester, New York 14614

#### Prepared by:

LaBella Associates, D.P.C 300 State Street, Rochester, New York (585) 454-6011

#### **CERTIFICATIONS**

I, DANEEL P. NoLL, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Interim Remedial Action Work Plan.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Daniel P. Noll, of LaBella Associates, D.P.C., am certifying as Owner's Designated Site Representative for the site.

081996

NYS Professional Engineer #

1/17/19

Date

Signature



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## LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
CAMP	Community Air Monitoring Program
CCR	Construction Completion Report
HASP	Health and Safety Plan
IRAWP	Interim Remedial Action Work Plan
IRMs	Interim Remedial Measures
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PE	Professional Engineer
PFE	Pressure Field Extension
PPM	Parts Per Million
RAOs	Remedial Action Objectives
SSDS	Sub-Slab Depressurization System
VOC	Volatile Organic Compound

# CONSTRUCTION COMPLETION REPORT

#### 1.0 BACKGROUND AND SITE DESCRIPTION

Clinton North Development Corporation entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in April 2017 to investigate and remediate a 0.11-acre property located in the City of Rochester, Monroe County, New York. An Interim Remedial Action was implemented by installing a Sub-Slab Depressurization System (SSDS) to mitigate soil vapor intrusion issues within the Site building.

The site is located in the County of Monroe, New York and is identified as Block 1 and Lot 30 on the City of Rochester Tax Map # 106.79. The site is situated on an approximately 0.11-acre area bounded by vacant properties to the north, North Clinton Avenue to the east, and commercial properties, a park and parking lots to the east (beyond North Clinton Avenue), south and west (see Figures 1 and 2).

An electronic copy of this CCR with all supporting documentation is included as Appendix 2.

#### 2.0 SUMMARY OF SITE REMEDY

#### 2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

#### 2.1.1 Soil Vapor RAOs

**RAOs for Public Health Protection** 

 Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the building at the Site.

#### 2.1.2 Groundwater RAOs

**RAOs for Public Health Protection** 

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

**RAOs** for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/prerelease conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

#### 2.1.3 Soil RAOs

**RAOs for Public Health Protection** 

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

#### **RAOs for Environmental Protection**

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

## 3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

This CCR documents the SSDS installation at this Site; no prior IRMs, operable units, or separate construction contracts have been identified or performed.

#### 4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Interim Remedial Action Work Plan (IRAWP) dated October, 2017 and IRAWP Amendment (August, 2018) for the 113-117 Clinton North site. All deviations from the IRAWP and IRAWP Amendment are described in Section 4.4.

The primary objective of the IRAWP implementation was to mitigate chlorinated VOC impacts identified in soil vapor intrusion samples collected by the NYSDEC in November 2015 by creating a vacuum under the building's floor slab. This objective was accomplished via the installation of a SSDS within the Site building.

The overall objective for the Site is its continued use for residential and commercial purposes.

The Remedial Goals in the IRAWP were as follows:

• Install a SSDS to create negative sub-slab pressure beneath the Site building's floor slab, thus mitigating soil vapor intrusion issues within the Site building.

The SSDS was installed in accordance with the NYSDOH's *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006. The majority of the system was constructed of Schedule 40 polyvinyl chloride (PVC) piping and fittings.

Between October 10, 2018 and November 30, 2018, three (3) depressurization points (designated DP-01 through DP-03) and one (1) rooftop fan (Festa Radon Technologies FRT "Force") were installed at the Site. Refer to Appendix 1 for fan specifications and Appendix 5 for a photographic log. Points DP-01 and DP-02 were installed vertically through the building's basement floor slab while DP-03 was installed horizontally through the western wall of the basement into a partial void space which underlies the western-most portion of the building's first floor (refer to Figure 3). A swimming pool was reportedly previously located in this area but was filled and a concrete floor slab (i.e., the first floor slab in this portion of the building) was poured over it.

As part of system installation, several cracks in the basement floor slab were sealed to prevent loss of vacuum during system operation.

U-Tube manometers were installed on each of the depressurization points to measure pressure differentials and thus system effectiveness. System components are depicted on Figure 4.

Following SSDS installation, a total of six (6) pressure field extension (PFE) points (designated PFE-01 through PFE-06) were installed at the Site to measure pressure differentials between the sub-slab and ambient air pressure, thus measuring system influence. Refer to Section 4.4 for additional information.

Due to void spaces beneath the floor slab in areas of the depressurization point installations, soil cuttings and/or other material requiring off-site disposal were not generated as part of the SSDS installation.

#### 4.1 GOVERNING DOCUMENTS

#### **4.1.1 IRAWP**

The SSDS installation was conducted in accordance with the IRAWP dated October 2017 and the IRAWP Amendment dated August 2018, with the exception of the deviations described in Section 4.4. Refer to Appendix 3 for agency approvals.

#### 4.1.2 Site Specific Health & Safety Plan (HASP)

The HASP was included as Appendix 1 of the IRAWP. All work performed under this Interim Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

#### 4.1.3 Community Air Monitoring Program (CAMP)

The CAMP was included as Appendix 2 of the IRAWP and was implemented during all ground intrusive work (i.e., the construction of SSDS depressurization points). VOC and particulate monitoring equipment was deployed and observed within the work area during construction of each SSDS depressurization point (i.e., coring a hole in the Site building's concrete floor slab). VOC and particulate readings were recorded at

regular time interval. All subsurface work (and thus CAMP monitoring) was completed on October 12, 2018. Refer to Section 4.2.5 for a summary of CAMP monitoring results. VOC and particulate readings recorded during construction of SSDS depressurization points are included in Appendix 4.

#### 4.2 REMEDIAL PROGRAM ELEMENTS

#### 4.2.1 Contractors and Consultants

- LaBella Associates, D.P.C. (Engineering Consultant)
  - Environmental consultant responsible for correspondence with NYSDEC, coordination with tenants, ensuring compliance with applicable Site documents (i.e., IRAWP and associated addendum), environmental oversight of SSDS installation/construction, reporting, sample collection, and implementation of the CAMP. Certifying Engineer of Record- Daniel P. Noll, P.E.
- Mitigation Tech (Contractor)
  - Responsible for installing components of the SSDS located within and under the building basement.
  - o Responsible for installation of the SSDS fan.
  - o Responsible for patching of cracks in the basement floor slab.
- Tallo Construction (Contractor)
  - o Responsible for installing exterior SSDS piping.

#### 4.2.2 Site Preparation

LaBella and Mitigation Tech initially mobilized to the Site on October 10, 2018 to install the depressurization points within the Site building. After initial depressurization point installation, the points were sealed to prevent emissions from the sub-slab into the basement while the remainder of the system was installed.

Documentation of agency approvals required by the IRAWP is included in Appendix 3. Non-agency permits were not required for this Interim Remedial Action.

#### 4.2.3 General Site Controls

Site security was provided by the BCP Volunteer, Clinton North Development Corporation.

#### 4.2.4 Nuisance controls

Based upon results of the CAMP (see Section 4.2.5 and Appendix 4), no significant dust/particulate or odor control mitigation was required during implementation of the Interim Remedial Action. Contractors were diligent in their housekeeping and cleanup of work areas. Loud/disruptive work (i.e., drilling) was completed in the building basement, to which building tenants do not have access.

#### 4.2.5 CAMP results

Prior to initiating drilling to install the depressurization points, LaBella set up air monitoring equipment in conformance with the CAMP included in the IRAWP. Air monitoring at the Site consisted of the following:

LaBella established monitoring in close proximity to the drilling locations (within a 5-ft radius of the work zone). Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix 4. Measurements were collected every 1 minute throughout the duration of the sub-slab intrusive work for that day. The specific monitoring program employed at the Site is described below:

- VOC Monitoring: A Minirae 3000, capable of measuring total VOCs in parts per million (ppm), was used to screen ambient air of VOCs at the work zone. The readings were compared to the response levels and actions outlined in the CAMP included in the IRAWP.
- Background Fugitive Dust Monitoring: A DustTrak Model 8520 aerosol monitor
  was used for measuring particulates less than 10 micrometers in size (PM-10) at
  the work zone. The readings were compared the response levels and actions
  outlined in the CAMP included in the IRAWP.

Exceedences of particulate thresholds identified in the CAMP were measured during concrete coring as part of depressurization point installation. To mitigate the elevated particulate levels, water and a vacuum were used. Note that all concrete coring was completed in the building's basement, which is inaccessible to building tenants. Furthermore, contamination identified at the Site appears to be migrating to the Site via

soil vapor from the northern adjacent property and thus is not expected to have impacted the building's concrete floor slab.

CAMP monitoring did not identified exceedences of VOC thresholds during implementation of the IRAWP.

Copies of all field data sheets relating to the CAMP are provided in Appendix 4.

#### 4.3 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

In accordance with the IRAWP, PFE testing was completed to assess SSDS performance. A total of six (6) PFE points (designated PFE-01 through PFE-06) were installed at the Site to measure pressure differentials between the sub-slab and ambient air pressure, thus measuring system influence. Each point was installed by drilling through the floor slab with an approximately 0.5-inch diameter drill bit. Tubing connected to a digital micro-manometer was inserted into the hole to the bottom of the floor slab and temporarily sealed into the slab using backer rod or clay until a measurement was displayed. Measurements were collected in November 2018 and January 2019. As summarized in attached Table 1 and Figure 3, measurements from the PFE points were between -0.008 and -0.060-inches of water, indicating proper operation of the system. Following completion of the PFE measurements, PFE points were filled with grout to prevent vapor intrusion or loss of vacuum via these points.

#### 4.4 DEVIATIONS FROM THE INTERIM REMEDIAL ACTION WORK PLAN

An amendment to the original IRAWP (October, 2017) was submitted to the NYSDEC in August 2018. This amendment outlined a layout change to the originally designed SSDS based on a diagnostic test completed by Mitigation Tech. The initial system layout called for three (3) vertical depressurization points in the building's basement, and one (1) horizontal depressurization point beneath the western portion of the building, under which a basement is not present. A total of three (3) RadonAway® HS-5000 fans and three (3) exterior risers were proposed as part of this initial design.

The amendment proposed a revised system consisting of two (2) vertical depressurization points and one (1) horizontal depressurization point connected to a

single exterior riser along the southern building wall, and a single RadonAway® RP-265 fan, located on the building roof. The revisions were based on diagnostic testing completed by Mitigation Tech. The revised SSDS layout was designed to reduce stress on the system and associated system downtime by reducing the amount of the system exposed to the elements.

The final SSDS configuration reflects the proposed layout in the IRAWP Amendment with the exception of the path of the horizontal piping in the basement due to the ceiling configuration. Another minor deviation was the use of a more powerful fan, the Festa Radon Technologies FRT "Force", instead of the RadonAway® RP-265. Refer to Figure 3 for the locations of SSDS components and Figure 4 for an as-built drawing.

#### LIST OF TABLES

Table 1: Pressure Field Extension Measurements

Table 1 - Pressure Field Extension Measurements
Construction Completion Report
113-117 North Clinton Avenue, Rochester, New York
NYSDEC BCP #C828195
LaBella Project #2161120

PFE Point	Inches of Water	
PFE-01	-0.013	
PFE-02	-0.045	
PFE-03	-0.014	
PFE-04	-0.008	
PFE-05	-0.012	
PFE-06	-0.060	



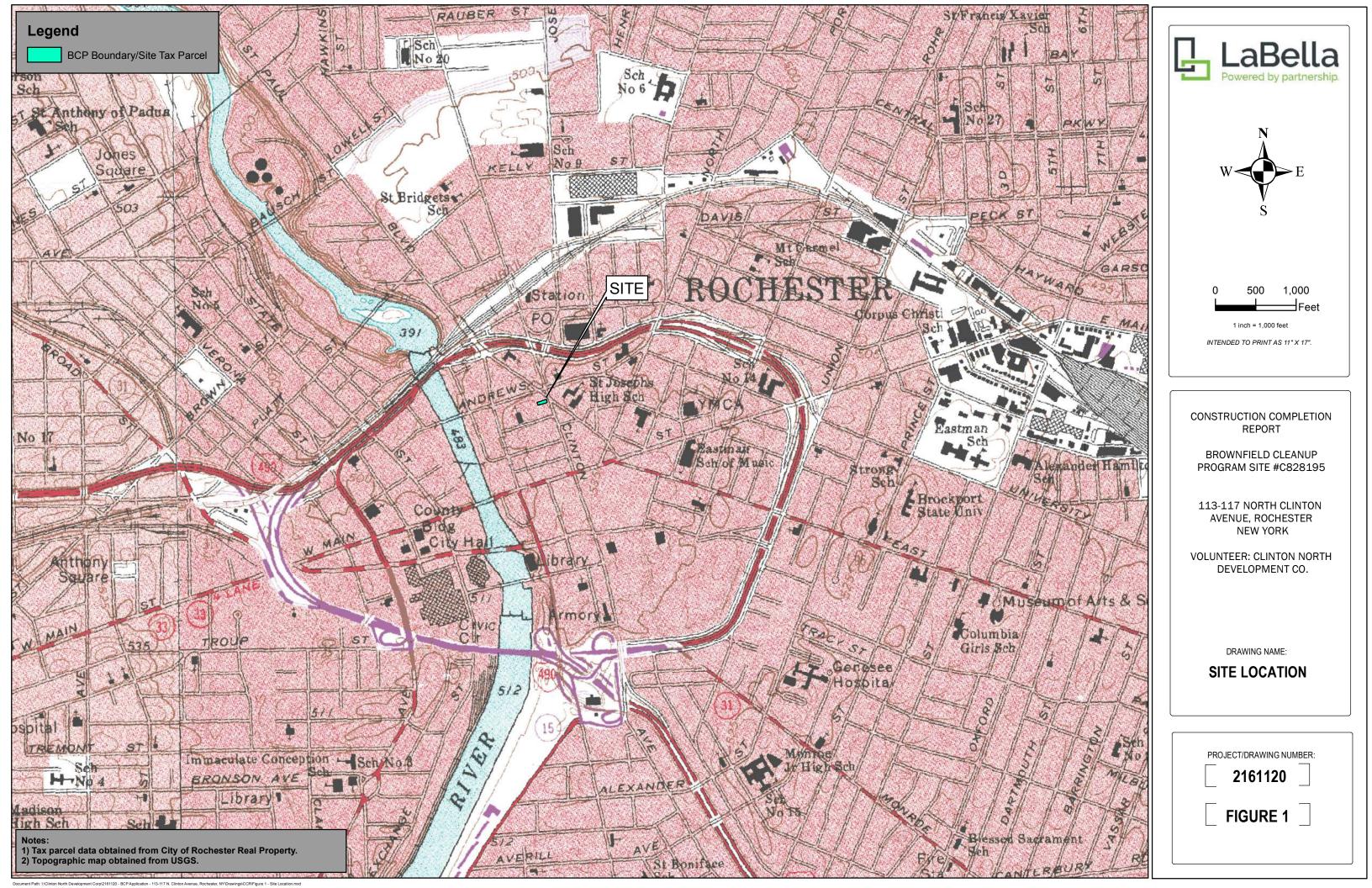
#### LIST OF FIGURES

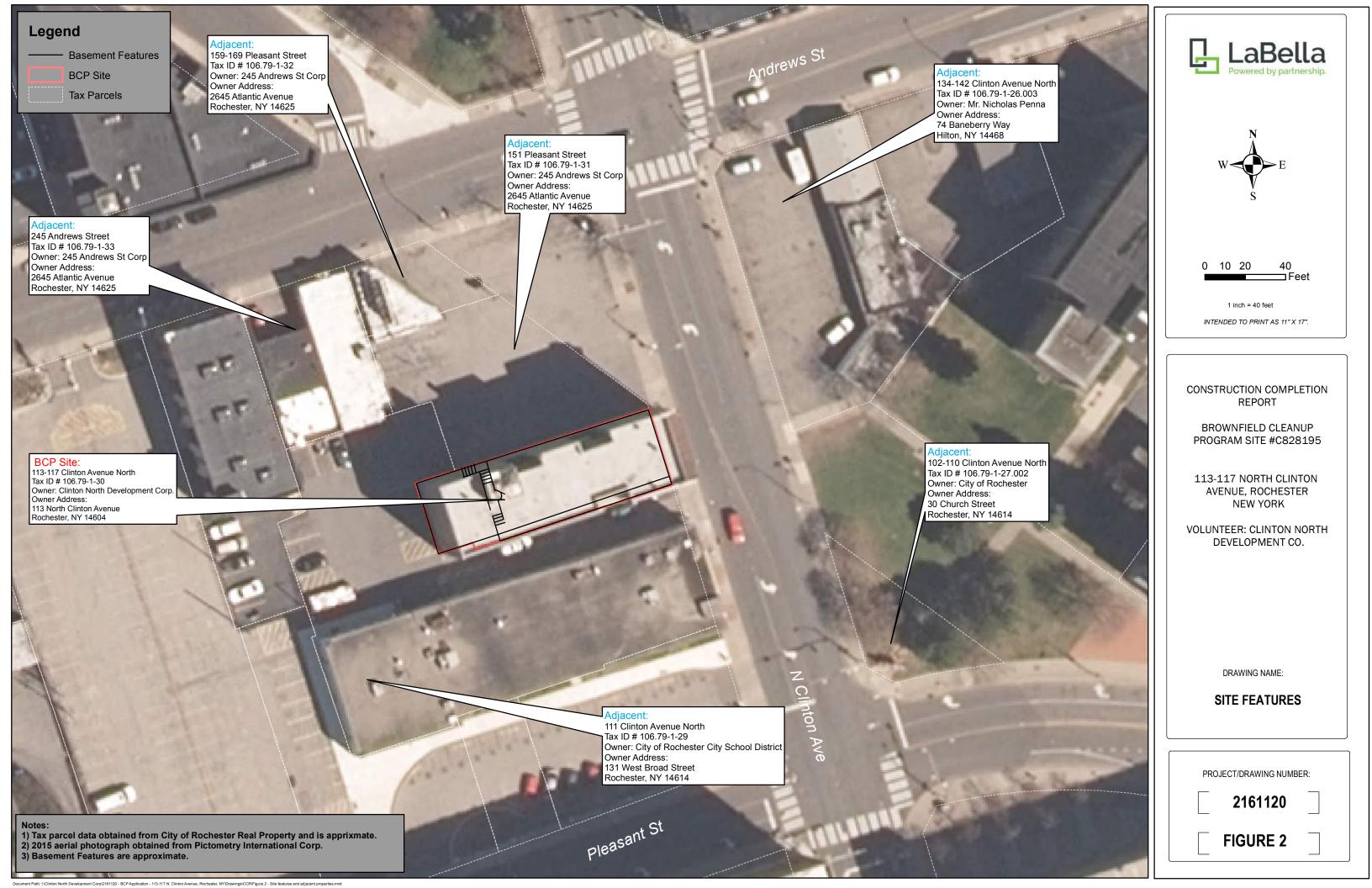
Figure 1: Site Location

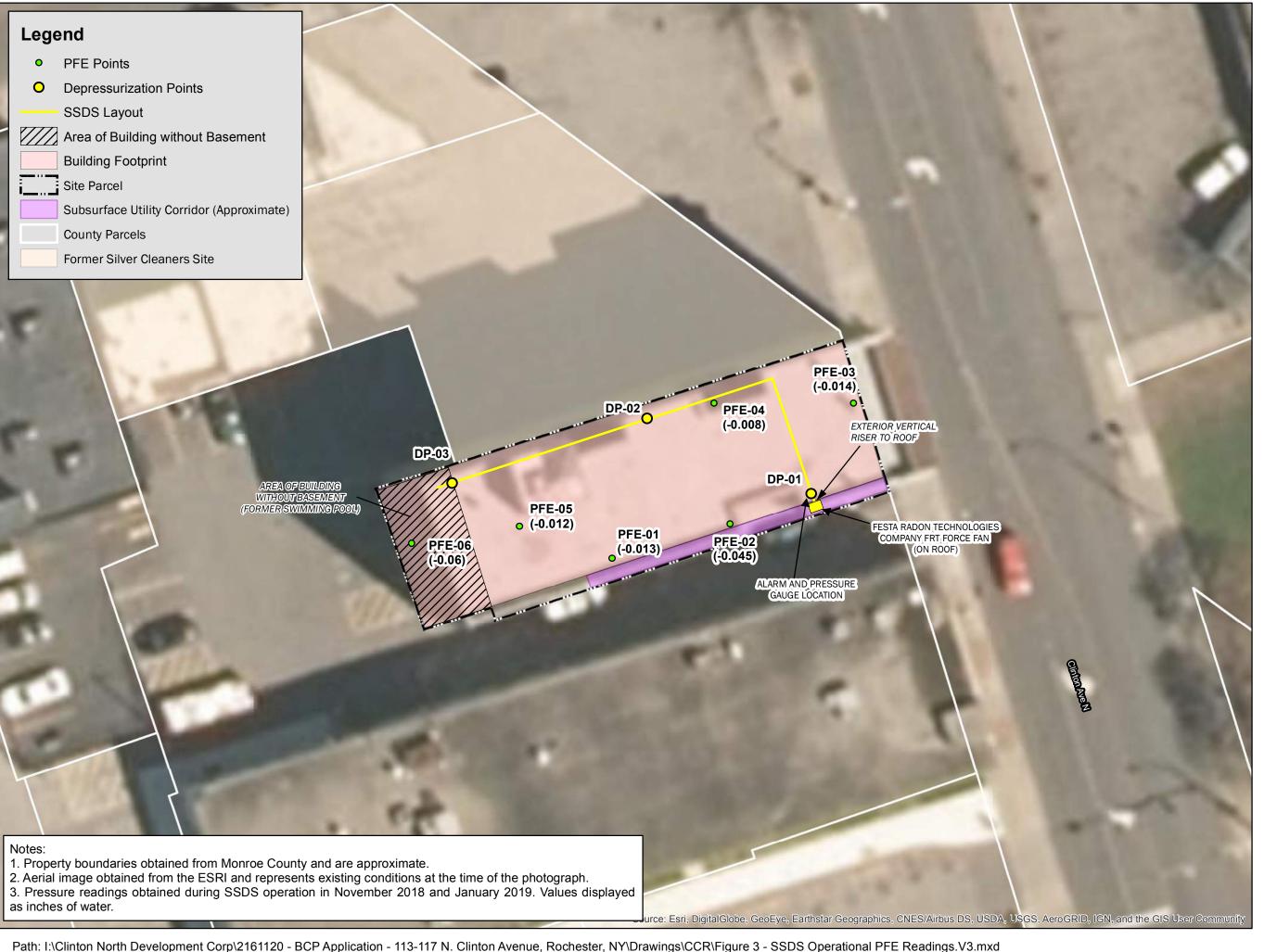
Figure 2: Site Features

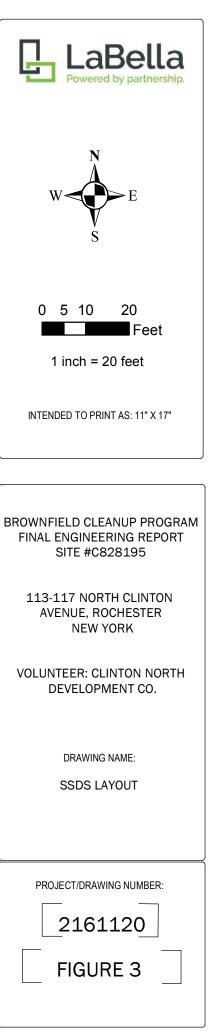
Figure 3: SSDS Layout

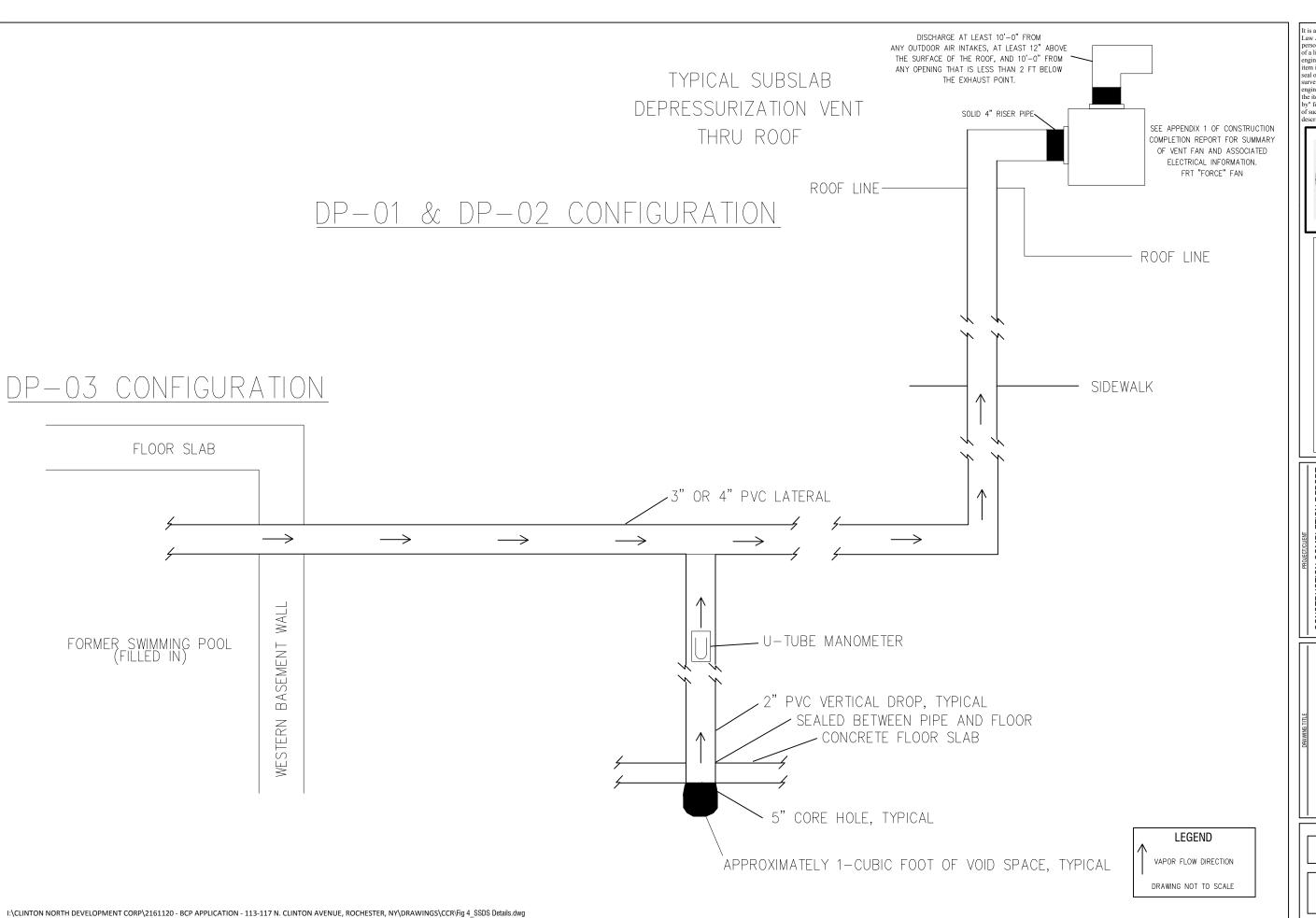
Figure 4: SSDS As-Built











It is a violation of New York Education
Law Article 145 Sec. 7209, for any
person, unless acting under the direction
of a licensed architect, professional
engineer, or land surveyor, to alter an
item in any way. If an item bearing the
seal of an architect, engineer, or land
surveyor is altered; the altering architec
engineer, or land surveyor shall affix to
the item their seal and notation "altered
by" followed by their signature and date
of such alteration, and a specific
description of the alteration.





CONSTRUCTION COMPLETION REPORT
BCP SITE #C828195
CLINTON NORTH DEVELOPMENT CORPORATION

113-117 N. CLINTON AVENUE ROCHESTER, NEW YORK

SUB-SLAB DEPRESSURIZATION
SYSTEM DETAILS
ISSUED FOR ISSUED FOR AS-BUILT
DATE: JANUARY, 2019 REVENED BY: JG
DATE: JANUARY, 2019 REVENED BY: JG

2161120
FIGURE 4

#### LIST OF APPENDICES

Appendix 1: SSDS Fan Specifications

Appendix 2: Digital Copy of FER (included in hardcopy of report only)

Appendix 3: Agency Approvals

Appendix 4: CAMP Data

Appendix 5: Photographic Log

# APPENDIX 1 SSDS FAN SPECIFICATIONS

#### Installation & Wiring Instructions for FRT In Line Centrifugal Duct Fans



### Model: FRT FORCE



IMPORTANT NOTE: DO NOT CONNECT THE POWER SUPPLY UNTIL THE FAN IS COMPLETELY INSTALLED.

MAKE SURE THE ELECTRICAL SERVICE TO THE FAN IS LOCKED IN "OFF" POSITION.

#### PLEASE READ AND SAVE THESE INSTRUCTIONS:

Warning - To reduce the risk of fire, electric shock or injury to persons, observe the following.

- 1. This unit is only for use in the manner intended by the manufacturer. If you have any questions contact the manufacturer Festa Radon Technologies Co.
- 2. Installation work and electrical wiring must be done by qualified person'(s) in accordance with all applicable codes and standards, including fire-rated construction.
- 3. Sufficient air is needed for proper combustion and exhausting of gases through the flue(chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- 4. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- 5. Ducted fans must always be vented to the outdoors.
- 6. These units can be mounted indoors or outdoors.
- 7. Do not use these fans with solid state speed controllers.
- 8. The electric motor is protected by an internal overheat device to prevent/minimise motor damage. If the motor stops working, immediate inspection should be carried out by suitably qualified persons.
- 9. Before servicing or cleaning the unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked; securely fasten a prominent warning device, such as a tag, to the service panel.
- 10. Do not use in a window.
- 11. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.
- 12. Never place a switch where it can be reached from a tub or shower.
- 13. CAUTION: For General Ventilating Use Only. Do Not use to Exhaust Hazardous Or Explosive Materials and Vapours.
- 12. CAUTION: This unit has an unguarded impeller. Do Not Use in Locations Readily Accessible To People or Animals.

#### Installation of FRT Force Radon Fans.

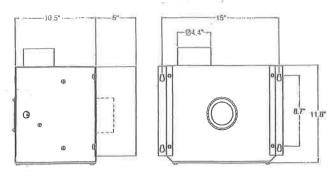
The FRT Force Radon Fans can be mounted indoors or outdoors. We recommend that EPA recommendations be used in choosing the fan location. The FRT fans may be mounted directly onto the piping system or fastened to a supporting structure. When mounting directly onto a vertical piping system it is the installers responsibility to make provision to prevent the pipe system sliding into and onto the fan motor and impeller.

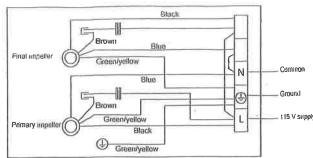
When installing a system with short duct runs terminating close to the fan i.e. within 60"(1.5m) suitable guards should be incorporated. It is the responsibility of the installer to ensure that all aspects of the system are taken into consideration.

Rigid ducting sections should be connected to fan spigots by flexible connectors and clips. The flexible connectors used should be suitable for routine servicing and vibration isolation.

#### **Dimensions**

#### **Electrical Connections**





Ensure that the mains supply voltage, frequency, number of phases and power rating comply with the details on the unit rating label (situated externally on the plastic casing terminal box cover). All wiring must be in accordance with local and / or national electrical codes as applicable, or the appropriate standard in your country. The fan must be supplied through a double pole isolating switch having a contact separation of not less than 1/8" (3mm). Wiring to the terminal box should be made in liquid tight flexible conduit to facilitate easy maintenance.

#### Operational Checks.

Check all connections are tight and leak free.

Check the system vacuum pressure with a manometer, ensure that the vacuum pressure is less than the maximum recommended operating pressure.

Check and verify Radon levels by testing to EPA protocol.

#### Cleaning and Maintenance.

We would recommend that the fan be periodically checked against the listed operational checks to ensure trouble free long lasting operation.

#### **FIVE (5) YEAR WARRANTY**

#### **Conditions of Warranty**

Festa Radon Technologies Co. ("FRT") warrants that the 'FRT FORCE', ("the Products") shall be free from defects in material and workmanship for a period of (5) years from the date of purchase by the customer. If within the applicable warranty period the Products prove to be defective by reason of faulty workmanship or materials, FRT will undertake to have the defective Product (or any part thereof) replaced at no cost to the customer subject to the following conditions:

1. The Product has been purchased and used solely in accordance with all Environmental Protection Agency ("EPA") standard practices and state and local codes of practice.

The Product is returned promptly on being found defective, together with this warranty and proof of date of installation at the
customers risk and expense to Festa Radon Technologies Co. ("FRT") from whom the Product was purchased. All enquiry's
must be through FRT.

3. This warranty shall not apply to any Product failure or defect due to any cause beyond the reasonable control of FRT including; damage caused through fire, flood, explosion, accident, misuse, wear and tear, neglect, incorrect adjustment or repair, damage caused through installation, adaptation, modification or use in an improper manner or inconsistent with the technical and/or safety standards required where the Product is used, or to damage occurring during transit to or from the customer.

4. If at any time during the Warranty Period any part or parts of the Product are replaced with a part or parts not supplied or approved by FRT, or the Product has been dismantled or repaired by any person not authorized by FRT, FRT shall have the right to terminate this warranty in whole or in part immediately without further notice.

5. FRT's decision on all matters relating to complaints and Products defects and failure (alleged or actual) shall be final. Any Product or defective part, which has been replaced, shall be FRT's.

6. AMG will offer to customers a Warranty of a full Five Years, from date of purchase, in accordance with the terms listed above.

Festa Radon Technologies Co. 47A Progress Avenue, Cranberry Twp., PA 16066 Tel. Toll Free 1(800) 806-7866 or (724) 772-9060 Fax 1(724) 772-9062





# APPENDIX 2 DIGITAL COPY OF FER (INCLUDED IN HARDCOPY OF REPORT)

# APPENDIX 3 AGENCY APPROVALS

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8 6274 East Avon-Lima Road, Avon, NY 14414-9516 P: (585) 226-5353 I F: (585) 226-8139 www.dec.ny.gov

January 18, 2018

Mr. Justin Tallo Tallo Properties 10 Symington Place Rochester, New York 14611

Dear Mr. Tallo:

RE:

113-117 Clinton North Site (C828195)

Interim Remedial Action Work Plan (October 2017)

Rochester(C), Monroe(C)

Staff at the New York State Department of Environmental Conservation (the Department) and the New York State Department of Health (NYSDOH) have reviewed the referenced work plan, and we have no further comments. The public comment period has ended and no significant comments were received. The Interim Remedial Measure Work Plan for installation of a sub-slab depressurization system prepared by LaBella Associates, DPC it is hereby approved.

Please provide a field work schedule within 30 days of your receipt of this letter. Thank you for your continued cooperation.

Sincerely,

Todd M. Caffoe, P.E.

Division of Environmental Remediation

New York State Department of Environmental Conservation 6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5350 |Todd,Caffoe@dec.ny.gov

Down W Cff

www.dec.ny.gov | f | E

CC:

B. Schilling

J. Kenney

J. Gillen

T. Walsh

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8 6274 East Avon-Lima Road, Avon, NY 14414-9516 P: (585) 226-5353 | F: (585) 226-8139 www.dec.ny.gov

Justin Tallo Clinton North Development Corporation 113 North Clinton Avenue Rochester, New York 14604

Dear Mr. Tallo:

RE:

113-117 Clinton North Site (C828195) Revised SSDS Design (August 2018)

**Emerging Contaminants** Rochester(C), Monroe(C)

Staff at the New York State Department of Environmental Conservation (the Department) and the New York State Department of Health (NYSDOH) have reviewed the referenced modification to the SSDS Design prepared by Labella. The modification is hereby approved. Please keep me informed of the installation schedule.

In addition, the Department is undertaking a Statewide evaluation of remediation sites to better understand the risk posed to New Yorkers by 1.4-dioxane and per- and polyfluoroalkyl substances (PFAS). PFAS have historically not been evaluated at remediation sites, and 1,4-dioxane has not been evaluated at the levels that are now thought to represent a health concern. This initiative is being undertaken as a result of these "emerging contaminants" having been found in a number of drinking water supplies in New York. Accordingly, the DEC is requiring that you test site groundwater for these chemicals. To accommodate this requirement, a representative number of existing monitoring wells must be sampled. DEC recommends that at least one of these wells should be upgradient of the site. Please provide a schedule for obtaining these samples.

If you have any questions, please contact me via the e-mail or phone number below. Thank you for your continued cooperation.

Sincerely,

Todd M. Caffoe, P.E.

Division of Environmental Remediation

Down W/

New York State Department of Environmental Conservation 6274 East Avon-Lima Road, Avon, NY 14414 P: (585) 226-5350 |Todd.Caffoe@dec.ny.gov

www.dec.ny.gov | f | E



NEW YORK Department of Environmental Conservation

B. Schilling J. Kenney J. Gillen T. Walsh CC:

# APPENDIX 4 CAMP DATA

TrackPro Report Page 1 of 7

## **Test 001**

Instrument		Data Properties	
Model	DustTrak II	Start Date	10/12/2018
Instrument S/N	8530143312	Start Time	10:09:19
		Stop Date	10/12/2018
		Stop Time	14:53:19
		Total Time	0:04:44:00
		Logging Interval	60 seconds

	Test Data			
Data Point	Date	Time	AEROSOL mg/m^3	
1	10/12/2018	10:10:19	0.179	
2	10/12/2018	10:11:19	0.182	
3	10/12/2018	10:12:19	0.153	
4	10/12/2018	10:13:19	0.140	
5	10/12/2018	10:14:19	0.147	
6	10/12/2018	10:15:19	0.156	
7	10/12/2018	10:16:19	0.144	
8	10/12/2018	10:17:19	0.154	
9	10/12/2018	10:18:19	0.140	
10	10/12/2018	10:19:19	0.161	
11	10/12/2018	10:20:19	0.137	
12	10/12/2018	10:21:19	0.114	
13	10/12/2018	10:22:19	0.118	
14	10/12/2018	10:23:19	0.172	
15	10/12/2018	10:24:19	0.183	
16	10/12/2018	10:25:19	0.135	
17	10/12/2018	10:26:19	0.120	
18	10/12/2018	10:27:19	0.117	
19	10/12/2018	10:28:19	0.146	
20	10/12/2018	10:29:19	0.172	
21	10/12/2018	10:30:19	0.110	
22	10/12/2018	10:31:19	0.095	
23	10/12/2018	10:32:19	0.121	
24	10/12/2018	10:33:19	0.127	
25	10/12/2018	10:34:19	0.141	
26	10/12/2018	10:35:19	0.133	
27	10/12/2018	10:36:19	0.115	
28	10/12/2018	10:37:19	0.135	
29	10/12/2018	10:38:19	0.137	
30	10/12/2018	10:39:19	0.155	
31	10/12/2018	10:40:19	0.522	
32	10/12/2018	10:41:19	0.207	
33	10/12/2018	10:42:19	0.165	
34	10/12/2018	10:43:19	0.233	
35	10/12/2018	10:44:19	0.195	

about:blank 10/17/2018

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Test Data			
Data Point	Date	Time	AEROSOL mg/m <sup>3</sup>
36	10/12/2018	10:45:19	0.187
37	10/12/2018	10:46:19	0.183
38	10/12/2018	10:47:19	0.168
39	10/12/2018	10:48:19	0.167
40	10/12/2018	10:49:19	0.190
41	10/12/2018	10:50:19	0.186
42	10/12/2018	10:51:19	0.182
43	10/12/2018	10:52:19	0.160
44	10/12/2018	10:53:19	0.164
45	10/12/2018	10:54:19	0.157
46	10/12/2018	10:55:19	0.150
47	10/12/2018	10:56:19	0.148
48	10/12/2018	10:57:19	0.129
49	10/12/2018	10:58:19	0.145
50	10/12/2018	10:59:19	0.111
51	10/12/2018	11:00:19	0.118
52	10/12/2018	11:01:19	0.146
53	10/12/2018	11:02:19	0.128
54	10/12/2018	11:03:19	0.107
55	10/12/2018	11:04:19	0.113
56	10/12/2018	11:05:19	0.119
57	10/12/2018	11:06:19	0.126
58	10/12/2018	11:07:19	0.113
59	10/12/2018	11:08:19	0.110
60	10/12/2018	11:09:19	0.135
61	10/12/2018	11:10:19	0.145
62	10/12/2018	11:11:19	0.163
63	10/12/2018	11:12:19	0.194
64	10/12/2018	11:13:19	0.229
65	10/12/2018	11:14:19	0.230
66	10/12/2018	11:15:19	0.200
67	10/12/2018	11:16:19	0.127
68	10/12/2018	11:17:19	0.177
69	10/12/2018	11:18:19	0.162
70	10/12/2018	11:19:19	0.170
71	10/12/2018	11:20:19	0.154
72	10/12/2018	11:21:19	0.171
73	10/12/2018	11:22:19	0.248
74	10/12/2018	11:23:19	0.258
75	10/12/2018	11:24:19	0.186
76	10/12/2018	11:25:19	0.646
77	10/12/2018	11:26:19	0.646
78	10/12/2018	11:27:19	0.225
79	10/12/2018	11:28:19	0.149
80	10/12/2018	11:29:19	0.168
81	10/12/2018	11:30:19	0.194

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Test Data				
Data Point	Date	Time	AEROSOL mg/m <sup>3</sup>	
82	10/12/2018	11:31:19	0.203	
83	10/12/2018	11:32:19	0.179	
84	10/12/2018	11:33:19	0.515	
85	10/12/2018	11:34:19	0.671	
86	10/12/2018	11:35:19	0.796	
87	10/12/2018	11:36:19	0.574	
88	10/12/2018	11:37:19	0.333	
89	10/12/2018	11:38:19	0.259	
90	10/12/2018	11:39:19	0.306	
91	10/12/2018	11:40:19	0.211	
92	10/12/2018	11:41:19	0.161	
93	10/12/2018	11:42:19	0.255	
94	10/12/2018	11:43:19	0.141	
95	10/12/2018	11:44:19	0.171	
96	10/12/2018	11:45:19	0.137	
97	10/12/2018	11:46:19	0.149	
98	10/12/2018	11:47:19	0.141	
99	10/12/2018	11:48:19	0.105	
100	10/12/2018	11:49:19	3.210	
101	10/12/2018	11:50:19	1.200	
102	10/12/2018	11:51:19	0.450	
103	10/12/2018	11:52:19	0.283	
104	10/12/2018	11:53:19	0.250	
105	10/12/2018	11:54:19	0.401	
106	10/12/2018	11:55:19	0.279	
107	10/12/2018	11:56:19	0.206	
108	10/12/2018	11:57:19	0.297	
109	10/12/2018	11:58:19	0.254	
110	10/12/2018	11:59:19	0.258	
111	10/12/2018	12:00:19	0.601	
112	10/12/2018	12:01:19	0.761	
113	10/12/2018	12:02:19	1.060	
114	10/12/2018	12:03:19	0.507	
115	10/12/2018	12:04:19	0.329	
116	10/12/2018	12:05:19	0.616	
117	10/12/2018	12:06:19	1.070	
118	10/12/2018	12:07:19	1.350	
119	10/12/2018	12:08:19	1.080	
120	10/12/2018	12:09:19	0.961	
121	10/12/2018	12:10:19	0.740	
122	10/12/2018	12:11:19	1.240	
123	10/12/2018	12:12:19	0.813	
124	10/12/2018	12:13:19	0.428	
125	10/12/2018	12:14:19	0.357	
126	10/12/2018	12:15:19	0.809	
127	10/12/2018	12:16:19	1.180	

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Test Data					
Data Point	Date	Time	AEROSOL mg/m^3		
128	10/12/2018	12:17:19	0.342		
129	10/12/2018	12:18:19	0.332		
130	10/12/2018	12:19:19	0.320		
131	10/12/2018	12:20:19	1.500		
132	10/12/2018	12:21:19	4.570		
133	10/12/2018	12:22:19	1.390		
134	10/12/2018	12:23:19	0.729		
135	10/12/2018	12:24:19	0.858		
136	10/12/2018	12:25:19	0.484		
137	10/12/2018	12:26:19	0.383		
138	10/12/2018	12:27:19	0.338		
139	10/12/2018	12:28:19	0.805		
140	10/12/2018	12:29:19	0.385		
141	10/12/2018	12:30:19	0.318		
142	10/12/2018	12:31:19	0.318		
143	10/12/2018	12:32:19	0.649		
144	10/12/2018	12:33:19	0.860		
145	10/12/2018	12:34:19	1.020		
146	10/12/2018	12:35:19	0.674		
147	10/12/2018	12:36:19	0.438		
148	10/12/2018	12:37:19	0.327		
149	10/12/2018	12:38:19	0.275		
150	10/12/2018	12:39:19	0.277		
151	10/12/2018	12:40:19	0.296		
152	10/12/2018	12:41:19	0.299		
153	10/12/2018	12:42:19	0.370		
154	10/12/2018	12:43:19	0.445		
155	10/12/2018	12:44:19	0.260		
156	10/12/2018	12:45:19	0.276		
157	10/12/2018	12:46:19	0.319		
158	10/12/2018	12:47:19	0.503		
159	10/12/2018	12:48:19	0.962		
160	10/12/2018	12:49:19	0.656		
161	10/12/2018	12:50:19	1.940		
162	10/12/2018	12:51:19	0.471		
163	10/12/2018	12:52:19	0.236		
164	10/12/2018	12:53:19	0.189		
165	10/12/2018	12:54:19	0.726		
166	10/12/2018	12:55:19	0.326		
167	10/12/2018	12:56:19	0.214		
168	10/12/2018	12:57:19	0.243		
169	10/12/2018	12:58:19	0.213		
170	10/12/2018	12:59:19	0.210		
171	10/12/2018	13:00:19	0.223		
172	10/12/2018	13:01:19	0.334		
173	10/12/2018	13:02:19	1.100		

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Test Data					
Data Point	Date	Time	AEROSOL mg/m^3		
174	10/12/2018	13:03:19	0.534		
175	10/12/2018	13:04:19	1.390		
176	10/12/2018	13:05:19	0.531		
177	10/12/2018	13:06:19	0.236		
178	10/12/2018	13:07:19	0.199		
179	10/12/2018	13:08:19	0.200		
180	10/12/2018	13:09:19	1.030		
181	10/12/2018	13:10:19	0.791		
182	10/12/2018	13:11:19	0.631		
183	10/12/2018	13:12:19	1.110		
184	10/12/2018	13:13:19	1.500		
185	10/12/2018	13:14:19	2.050		
186	10/12/2018	13:15:19	2.130		
187	10/12/2018	13:16:19	1.250		
188	10/12/2018	13:17:19	0.682		
189	10/12/2018	13:18:19	0.529		
190	10/12/2018	13:19:19	0.405		
191	10/12/2018	13:20:19	0.380		
192	10/12/2018	13:21:19	0.562		
193	10/12/2018	13:22:19	0.615		
194	10/12/2018	13:23:19	0.639		
195	10/12/2018	13:24:19	0.608		
196	10/12/2018	13:25:19	0.563		
197	10/12/2018	13:26:19	0.572		
198	10/12/2018	13:27:19	0.535		
199	10/12/2018	13:28:19	0.517		
200	10/12/2018	13:29:19	0.540		
201	10/12/2018	13:30:19	0.538		
202	10/12/2018	13:31:19	0.503		
203	10/12/2018	13:32:19	0.504		
204	10/12/2018	13:33:19	0.527		
205	10/12/2018	13:34:19	0.528		
206	10/12/2018	13:35:19	0.594		
207	10/12/2018	13:36:19	0.755		
208	10/12/2018	13:37:19	0.769		
209	10/12/2018	13:38:19	0.594		
210	10/12/2018	13:39:19	0.732		
211	10/12/2018	13:40:19	0.673		
212	10/12/2018	13:41:19	0.641		
213	10/12/2018	13:42:19	0.593		
214	10/12/2018	13:43:19	0.620		
215	10/12/2018	13:44:19	0.702		
216	10/12/2018	13:45:19	0.702		
217	10/12/2018	13:46:19	0.664		
218	10/12/2018	13:47:19	0.580		
219	10/12/2018	13:48:19	0.524		

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Test Data					
Data Point	Date	Time	AEROSOL mg/m <sup>3</sup>		
220	10/12/2018	13:49:19	0.481		
221	10/12/2018	13:50:19	0.461		
222	10/12/2018	13:51:19	0.425		
223	10/12/2018	13:52:19	0.401		
224	10/12/2018	13:53:19	0.383		
225	10/12/2018	13:54:19	0.367		
226	10/12/2018	13:55:19	0.354		
227	10/12/2018	13:56:19	0.342		
228	10/12/2018	13:57:19	0.342		
229	10/12/2018	13:58:19	0.344		
230	10/12/2018	13:59:19	0.330		
231	10/12/2018	14:00:19	0.464		
232	10/12/2018	14:01:19	0.399		
233	10/12/2018	14:02:19	0.415		
234	10/12/2018	14:03:19	0.371		
235	10/12/2018	14:04:19	0.840		
236	10/12/2018	14:05:19	1.110		
237	10/12/2018	14:06:19	0.966		
238	10/12/2018	14:07:19	0.804		
239	10/12/2018	14:08:19	0.653		
240	10/12/2018	14:09:19	0.743		
241	10/12/2018	14:10:19	0.780		
242	10/12/2018	14:11:19	0.969		
243	10/12/2018	14:12:19	0.999		
244	10/12/2018	14:13:19	0.996		
245	10/12/2018	14:14:19	0.925		
246	10/12/2018	14:15:19	0.966		
247	10/12/2018	14:16:19	1.090		
248	10/12/2018	14:17:19	1.120		
249	10/12/2018	14:18:19	1.470		
250	10/12/2018	14:19:19	1.740		
251	10/12/2018	14:20:19	1.360		
252	10/12/2018	14:21:19	1.450		
253	10/12/2018	14:22:19	1.550		
254	10/12/2018	14:23:19	1.590		
255	10/12/2018	14:24:19	1.580		
256	10/12/2018	14:25:19	1.440		
257	10/12/2018	14:26:19	1.300		
258	10/12/2018	14:27:19	1.860		
259	10/12/2018	14:28:19	1.630		
260	10/12/2018	14:29:19	1.860		
261	10/12/2018	14:30:19	1.680		
262	10/12/2018	14:31:19	1.590		
263	10/12/2018	14:32:19	1.510		
264	10/12/2018	14:33:19	1.460		
265	10/12/2018	14:34:19	1.410		

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		Test Data	
Data Point	Date	Time	AEROSOL mg/m^3
266	10/12/2018	14:35:19	2.070
267	10/12/2018	14:36:19	1.720
268	10/12/2018	14:37:19	1.780
269	10/12/2018	14:38:19	1.500
270	10/12/2018	14:39:19	1.480
271	10/12/2018	14:40:19	1.420
272	10/12/2018	14:41:19	1.320
273	10/12/2018	14:42:19	1.450
274	10/12/2018	14:43:19	1.860
275	10/12/2018	14:44:19	1.790
276	10/12/2018	14:45:19	1.980
277	10/12/2018	14:46:19	2.000
278	10/12/2018	14:47:19	1.980
279	10/12/2018	14:48:19	2.220
280	10/12/2018	14:49:19	2.040
281	10/12/2018	14:50:19	2.260
282	10/12/2018	14:51:19	2.320
283	10/12/2018	14:52:19	2.350
284	10/12/2018	14:53:19	2.190

18/10/10 15:44	
Summary	
Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-916196
Unit Firmware Ver	V2.16
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode
Site ID	12345678
User ID	12345678
Begin	10/10/2018 15:44
End	10/10/2018 15:45
Sample Period(s)	60
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030233SB
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutylene
Calibration Time	8/30/2018 15:53
***************************************	
Datalog	
0 record.	
18/10/10 15:47 ************************************	
Summary	
Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-916196
Unit Firmware Ver	V2.16
	-2.20
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down
Site ID	12345678
User ID	12345678
Begin	10/10/2018 15:47
0	10, 10, 2010 10.47

End	10/10/2018 15:47
Sample Period(s)	60
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030233SB
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutylene
Calibration Time	10/10/2018 15:46
***************	******
Datalog	
0 record.	
18/10/12 10:18	
*****************************	******
Summary	
Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-916196
Unit Firmware Ver	V2.16
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down
	Tower bown
Site ID	12345678
User ID	12345678
Dogin	10/12/2019 10:19
Begin	10/12/2018 10:18
End Sample Period(s)	10/12/2018 15:06 60
Number of Records	287
	287
Sensor	PID(ppm)
Sensor SN	S023030233SB
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutylene
Calibration Time	10/10/2018 15:46
Peak	0.5
Min	0
Average	0.1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Index

1 10/12/2018 10:19 0 0.1 00 2 10/12/2018 10:20 0 0 0 3 10/12/2018 10:21 0 0 0 4 10/12/2018 10:22 0 0 0 5 10/12/2018 10:23 0 0.1 0 6 10/12/2018 10:25 0 0 0 8 10/12/2018 10:25 0 0 0 9 10/12/2018 10:26 0 0 0 9 10/12/2018 10:28 0 0 0 10/12/2018 10:28 0 0 0 10/12/2018 10:29 0 0 0 11 10/12/2018 10:29 0 0 0 12 10/12/2018 10:30 0 0 0 0 13 10/12/2018 10:31 0 0 0 0 0 13 10/12/2018 10:32 0 0 0 0 13 10/12/2018 10:32 0 0 0 0 13 10/12/2018 10:32 0 0 0 0 13 10/12/2018 10:33 0 0 0 0 0 15 10/12/2018 10:35 0 0 0 0 0 16 10/12/2018 10:35 0 0 0 0 0 17 10/12/2018 10:35 0 0 0 0 0 0 18 10/12/2018 10:35 0 0 0 0 0 0 19 10/12/2018 10:35 0 0 0 0 0 0 10 10/12/2018 10:35 0 0 0 0 0 0 12 10/12/2018 10:35 0 0 0 0 0 0 13 10/12/2018 10:35 0 0 0 0 0 0 0 14 10/12/2018 10:35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			PID(ppm)		PID(ppm)
2 10/11/2018 10:20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Date/Time	(Avg)	(Max)	(Real)
3					0
4 10/12/2018 10:22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10/12/2018 10:20	0	0	0
5					0
6 10/12/2018 10:24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	10/12/2018 10:22	0	0	0
7	5	10/12/2018 10:23	0	0.1	0
8 10/12/2018 10:26	6	10/12/2018 10:24	0	0	0
8	7	10/12/2018 10:25	0	0	0
9	8		0	0	0
10	9		0	0	0
111	10		0	0	0
12					
13					
144					
15			-		
166					
17					
188					
19					
10/12/2018 10:38					
211					
222 10/12/2018 10:40 0.3 0.4 0.4 233 10/12/2018 10:41 0.4 0.5 0.4 244 10/12/2018 10:42 0.4 0.5 0.4 255 10/12/2018 10:43 0.4 0.5 0.4 266 10/12/2018 10:45 0.5 0.5 0.5 27 10/12/2018 10:45 0.5 0.5 0.5 28 10/12/2018 10:46 0.5 0.5 0.5 29 10/12/2018 10:47 0.5 0.5 0.5 30 10/12/2018 10:49 0.5 0.5 0.5 31 10/12/2018 10:49 0.5 0.5 0.5 32 10/12/2018 10:49 0.5 0.5 0.5 33 10/12/2018 10:50 0.5 0.5 0.5 34 10/12/2018 10:51 0.5 0.5 0.5 35 10/12/2018 10:52 0.4 0.5 0.5 36 10/12/2018 10:55 0.4 0.5 0.5 37 10/12/2018 10:55 0.4 0.5 0.5 38 10/12/2018 10:55 0.4 0.5 0.5 39 10/12/2018 10:55 0.4 0.5 0.5 39 10/12/2018 10:55 0.4 0.5 0.5 40 10/12/2018 10:55 0.4 0.5 0.4 41 10/12/2018 10:55 0.4 0.5 0.4 42 10/12/2018 10:59 0.4 0.4 0.4 44 10/12/2018 10:59 0.4 0.4 0.4 44 10/12/2018 11:01 0.4 0.4 0.4 45 10/12/2018 11:01 0.4 0.4 0.4 46 10/12/2018 11:01 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:05 0.4 0.4 0.4 49 10/12/2018 11:05 0.4 0.4 0.4 40 10/12/2018 11:05 0.4 0.4 0.4 41 10/12/2018 11:05 0.4 0.4 0.4 42 10/12/2018 11:05 0.4 0.4 0.4 43 10/12/2018 11:05 0.4 0.4 0.4 44 10/12/2018 11:05 0.4 0.4 0.4 45 10/12/2018 11:05 0.4 0.4 0.4 46 10/12/2018 11:05 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:05 0.4 0.4 0.4 49 10/12/2018 11:05 0.4 0.4 0.4 40 10/12/2018 11:05 0.5 0.5 0.5 50 10/12/2018 11:10 0.4 0.4 0.4 51 10/12/2018 11:05 0.4 0.4 0.4 52 10/12/2018 11:05 0.4 0.4 0.4 53 10/12/2018 11:05 0.4 0.4 0.4 54 10/12/2018 11:05 0.4 0.4 0.4 55 10/12/2018 11:05 0.5 0.5 0.5 50 10/12/2018 11:10 0.4 0.5 0.5 50 10/12/2018 11:10 0.4 0.5 0.5 50 10/12/2018 11:10 0.5 0.5 0.5 50 10/12/2018 11:10 0.5 0.5 0.5 50 10/12/2018 11:10 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0					
233					
244 10/12/2018 10:42 0.4 0.5 0.4 25 10/12/2018 10:43 0.4 0.4 0.4 26 10/12/2018 10:44 0.4 0.5 0.5 27 10/12/2018 10:45 0.5 0.5 0.5 28 10/12/2018 10:46 0.5 0.5 0.5 29 10/12/2018 10:47 0.5 0.5 0.5 30 10/12/2018 10:49 0.5 0.5 0.5 31 10/12/2018 10:49 0.5 0.5 0.5 32 10/12/2018 10:50 0.5 0.5 0.5 33 10/12/2018 10:51 0.5 0.5 0.5 33 10/12/2018 10:52 0.4 0.5 0.5 34 10/12/2018 10:52 0.4 0.5 0.5 35 10/12/2018 10:55 0.4 0.5 0.5 36 10/12/2018 10:55 0.4 0.5 0.4 37 10/12/2018 10:55 0.4 0.5 0.5 38 10/12/2018 10:55 0.4 0.5 0.4 39 10/12/2018 10:55 0.4 0.5 0.4 40 10/12/2018 10:55 0.4 0.5 0.4 41 10/12/2018 10:58 0.4 0.4 0.4 41 10/12/2018 10:58 0.4 0.4 0.4 42 10/12/2018 10:59 0.4 0.4 0.4 43 10/12/2018 10:59 0.4 0.4 0.4 44 10/12/2018 11:00 0.4 0.4 0.4 44 10/12/2018 11:00 0.4 0.4 0.4 45 10/12/2018 11:01 0.4 0.4 0.4 46 10/12/2018 11:01 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:05 0.4 0.4 0.4 49 10/12/2018 11:05 0.4 0.4 0.4 40 10/12/2018 11:05 0.4 0.4 0.4 41 10/12/2018 11:00 0.4 0.4 0.4 42 10/12/2018 11:00 0.4 0.4 0.4 43 10/12/2018 11:00 0.4 0.4 0.4 44 10/12/2018 11:00 0.4 0.4 0.4 45 10/12/2018 11:00 0.4 0.4 0.4 46 10/12/2018 11:00 0.4 0.4 0.4 47 10/12/2018 11:00 0.4 0.4 0.4 48 10/12/2018 11:00 0.4 0.4 0.4 49 10/12/2018 11:00 0.4 0.4 0.4 50 10/12/2018 11:00 0.4 0.4 0.4 51 10/12/2018 11:00 0.4 0.5 0.5 51 10/12/2018 11:10 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0					
255					
266					
277	25	10/12/2018 10:43	0.4	0.4	0.4
288	26	10/12/2018 10:44	0.4	0.5	0.4
29	27	10/12/2018 10:45	0.5	0.5	0.5
300	28	10/12/2018 10:46	0.5	0.5	0.4
311	29	10/12/2018 10:47	0.5	0.5	0.5
32	30	10/12/2018 10:48	0.5	0.5	0.5
33	31	10/12/2018 10:49	0.5	0.5	0.5
34         10/12/2018 10:52         0.4         0.5         0.4           35         10/12/2018 10:53         0.4         0.5         0.4           36         10/12/2018 10:54         0.4         0.5         0.5           37         10/12/2018 10:55         0.4         0.5         0.4           38         10/12/2018 10:56         0.4         0.4         0.4           39         10/12/2018 10:57         0.4         0.5         0.4           40         10/12/2018 10:59         0.4         0.4         0.4           41         10/12/2018 11:00         0.4         0.4         0.4           42         10/12/2018 11:00         0.4         0.4         0.4           43         10/12/2018 11:00         0.4         0.4         0.4           44         10/12/2018 11:00         0.4         0.4         0.4           45         10/12/2018 11:00         0.4         0.4         0.4           45         10/12/2018 11:00         0.4         0.4         0.4           47         10/12/2018 11:05         0.4         0.4         0.4           48         10/12/2018 11:06         0.4         0.4         0.4	32	10/12/2018 10:50	0.5	0.5	0.5
34         10/12/2018 10:52         0.4         0.5         0.4           35         10/12/2018 10:53         0.4         0.5         0.4           36         10/12/2018 10:54         0.4         0.5         0.5           37         10/12/2018 10:55         0.4         0.5         0.4           38         10/12/2018 10:56         0.4         0.4         0.4           39         10/12/2018 10:57         0.4         0.5         0.4           40         10/12/2018 10:59         0.4         0.4         0.4           41         10/12/2018 11:00         0.4         0.4         0.4           42         10/12/2018 11:00         0.4         0.4         0.4           43         10/12/2018 11:00         0.4         0.4         0.4           44         10/12/2018 11:00         0.4         0.4         0.4           45         10/12/2018 11:00         0.4         0.4         0.4           45         10/12/2018 11:00         0.4         0.4         0.4           47         10/12/2018 11:05         0.4         0.4         0.4           48         10/12/2018 11:06         0.4         0.4         0.4	33	10/12/2018 10:51	0.5	0.5	0.4
35					0.4
366	35		0.4	0.5	0.4
37	36		0.4		
38					0.4
39					
40 10/12/2018 10:58 0.4 0.4 0.4 41 10/12/2018 10:59 0.4 0.4 0.4 42 10/12/2018 11:00 0.4 0.4 0.4 43 10/12/2018 11:01 0.4 0.4 0.4 44 10/12/2018 11:02 0.4 0.4 0.4 45 10/12/2018 11:03 0.4 0.4 0.4 46 10/12/2018 11:04 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:05 0.4 0.4 0.4 49 10/12/2018 11:06 0.4 0.4 0.4 49 10/12/2018 11:06 0.4 0.4 0.4 50 10/12/2018 11:07 0.4 0.4 0.4 51 10/12/2018 11:09 0.4 0.4 0.4 52 10/12/2018 11:00 0.5 0.5 0.4 53 10/12/2018 11:10 0.4 0.5 0.4 54 10/12/2018 11:11 0.5 0.5 0.4 55 10/12/2018 11:11 0.5 0.5 0.4 56 10/12/2018 11:15 0.4 0.4 0.4 57 10/12/2018 11:15 0.4 0.4 0.4 58 10/12/2018 11:15 0.4 0.4 0.4 59 10/12/2018 11:15 0.4 0.4 0.4 50 10/12/2018 11:15 0.4 0.4 0.4 51 10/12/2018 11:15 0.4 0.4 0.4 52 10/12/2018 11:15 0.4 0.4 0.4 53 10/12/2018 11:15 0.4 0.4 0.4 54 10/12/2018 11:15 0.5 0.5 0.5 59 10/12/2018 11:16 0.5 0.5 0.5 59 10/12/2018 11:17 0.5 0.6 0.5 59 10/12/2018 11:19 0.5 0.5 0.5 50 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5 51 10/12/2018 11:19 0.5 0.5 0.5					
41 10/12/2018 10:59 0.4 0.4 0.4 42 10/12/2018 11:00 0.4 0.4 0.4 43 10/12/2018 11:01 0.4 0.4 0.4 44 10/12/2018 11:02 0.4 0.4 0.4 45 10/12/2018 11:03 0.4 0.4 0.4 46 10/12/2018 11:05 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:05 0.4 0.4 0.4 49 10/12/2018 11:06 0.4 0.4 0.4 49 10/12/2018 11:07 0.4 0.4 0.4 50 10/12/2018 11:09 0.4 0.4 0.4 51 10/12/2018 11:09 0.4 0.4 0.4 52 10/12/2018 11:09 0.4 0.4 0.4 53 10/12/2018 11:01 0.4 0.5 54 10/12/2018 11:11 0.5 0.5 0.4 55 10/12/2018 11:11 0.5 0.5 0.4 56 10/12/2018 11:12 0.5 0.5 0.4 57 10/12/2018 11:13 0.4 0.5 0.4 58 10/12/2018 11:14 0.4 0.4 0.4 59 10/12/2018 11:15 0.4 0.4 0.4 59 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 50 10/12/2018 11:11 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:11 0.5 0.5 0.5 0.5 51 10/12/2018 11:12 0.5 0.5 0.5 0.5					
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444 10/12/2018 11:02 0.4 0.4 0.4 45 10/12/2018 11:03 0.4 0.4 0.4 46 10/12/2018 11:04 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:06 0.4 0.4 0.4 49 10/12/2018 11:07 0.4 0.4 0.4 55 10/12/2018 11:09 0.4 0.4 0.4 55 10/12/2018 11:00 0.5 0.5 0.4 56 10/12/2018 11:10 0.4 0.5 0.4 57 10/12/2018 11:11 0.5 0.5 0.4 58 10/12/2018 11:12 0.5 0.5 0.4 59 10/12/2018 11:15 0.4 0.4 0.4 50 10/12/2018 11:15 0.4 0.4 0.4 51 10/12/2018 11:15 0.5 0.5 0.4 52 10/12/2018 11:15 0.4 0.4 0.5 53 10/12/2018 11:15 0.4 0.4 0.5 54 10/12/2018 11:15 0.4 0.4 0.4 55 10/12/2018 11:15 0.4 0.4 0.4 56 10/12/2018 11:15 0.4 0.4 0.4 57 10/12/2018 11:15 0.4 0.4 0.4 58 10/12/2018 11:15 0.5 0.5 0.5 59 10/12/2018 11:16 0.5 0.5 0.5 59 10/12/2018 11:17 0.5 0.6 0.5 59 10/12/2018 11:19 0.5 0.5 0.5 60 10/12/2018 11:19 0.5 0.5 0.5 61 10/12/2018 11:20 0.5 0.5 0.5 63 10/12/2018 11:20 0.5 0.5 0.5					
45 10/12/2018 11:03 0.4 0.4 0.4 46 10/12/2018 11:04 0.4 0.4 0.4 47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:06 0.4 0.4 0.4 49 10/12/2018 11:07 0.4 0.4 0.4 50 10/12/2018 11:09 0.4 0.4 0.4 51 10/12/2018 11:09 0.4 0.4 0.4 52 10/12/2018 11:01 0.4 0.5 53 10/12/2018 11:10 0.4 0.5 54 10/12/2018 11:11 0.5 0.5 0.4 55 10/12/2018 11:12 0.5 0.5 0.4 56 10/12/2018 11:13 0.4 0.5 57 10/12/2018 11:14 0.4 0.4 0.4 58 10/12/2018 11:15 0.4 0.4 0.4 59 10/12/2018 11:15 0.4 0.4 0.4 59 10/12/2018 11:17 0.5 0.6 0.5 59 10/12/2018 11:17 0.5 0.6 0.5 60 10/12/2018 11:18 0.5 0.5 0.5 61 10/12/2018 11:19 0.5 0.5 0.5 61 10/12/2018 11:19 0.5 0.5 0.5 62 10/12/2018 11:19 0.5 0.5 0.5 63 10/12/2018 11:20 0.5 0.5 0.5					
466 10/12/2018 11:04 0.4 0.4 0.4 477 10/12/2018 11:05 0.4 0.4 0.4 488 10/12/2018 11:05 0.4 0.4 0.4 499 10/12/2018 11:07 0.4 0.4 0.3 500 10/12/2018 11:09 0.4 0.4 0.4 51 10/12/2018 11:09 0.4 0.4 0.4 52 10/12/2018 11:01 0.5 0.5 0.4 53 10/12/2018 11:11 0.5 0.5 0.5 54 10/12/2018 11:12 0.5 0.5 0.4 55 10/12/2018 11:13 0.4 0.5 0.5 56 10/12/2018 11:14 0.4 0.4 0.4 57 10/12/2018 11:15 0.4 0.4 0.4 58 10/12/2018 11:15 0.4 0.4 0.4 59 10/12/2018 11:16 0.5 0.5 0.5 59 10/12/2018 11:17 0.5 0.6 0.5 59 10/12/2018 11:18 0.5 0.5 0.5 60 10/12/2018 11:19 0.5 0.5 0.5 61 10/12/2018 11:19 0.5 0.5 0.5 62 10/12/2018 11:20 0.5 0.5 0.5 63 10/12/2018 11:20 0.5 0.5 0.5					
47 10/12/2018 11:05 0.4 0.4 0.4 48 10/12/2018 11:06 0.4 0.4 0.4 49 10/12/2018 11:07 0.4 0.4 0.3 50 10/12/2018 11:09 0.4 0.4 0.4 51 10/12/2018 11:09 0.4 0.4 0.5 52 10/12/2018 11:10 0.4 0.5 0.4 53 10/12/2018 11:11 0.5 0.5 0.4 54 10/12/2018 11:12 0.5 0.5 0.4 55 10/12/2018 11:13 0.4 0.5 0.5 56 10/12/2018 11:14 0.4 0.4 0.4 57 10/12/2018 11:15 0.4 0.4 0.4 58 10/12/2018 11:15 0.4 0.4 0.4 59 10/12/2018 11:16 0.5 0.5 0.5 59 10/12/2018 11:17 0.5 0.6 0.5 59 10/12/2018 11:18 0.5 0.5 0.5 60 10/12/2018 11:19 0.5 0.5 0.5 61 10/12/2018 11:19 0.5 0.5 0.5 62 10/12/2018 11:20 0.5 0.5 0.5 63 10/12/2018 11:20 0.5 0.5 0.5					
48					
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51         10/12/2018 11:09         0.4         0.4         0.4           52         10/12/2018 11:10         0.4         0.5         0.4           53         10/12/2018 11:11         0.5         0.5         0.4           54         10/12/2018 11:12         0.5         0.5         0.4           55         10/12/2018 11:13         0.4         0.5         0.4           56         10/12/2018 11:14         0.4         0.4         0.4           57         10/12/2018 11:15         0.4         0.4         0.4           58         10/12/2018 11:16         0.5         0.5         0.5           59         10/12/2018 11:17         0.5         0.6         0.5           60         10/12/2018 11:18         0.5         0.5         0.5           61         10/12/2018 11:19         0.5         0.5         0.5           62         10/12/2018 11:20         0.5         0.5         0.5           63         10/12/2018 11:21         0.5         0.5         0.5					
52         10/12/2018 11:10         0.4         0.5         0.4           53         10/12/2018 11:11         0.5         0.5         0.4           54         10/12/2018 11:12         0.5         0.5         0.4           55         10/12/2018 11:13         0.4         0.5         0.4           56         10/12/2018 11:14         0.4         0.4         0.4           57         10/12/2018 11:15         0.4         0.4         0.4           58         10/12/2018 11:16         0.5         0.5         0.5           59         10/12/2018 11:17         0.5         0.6         0.5           60         10/12/2018 11:18         0.5         0.5         0.5           61         10/12/2018 11:19         0.5         0.5         0.5           62         10/12/2018 11:20         0.5         0.5         0.5           63         10/12/2018 11:21         0.5         0.5         0.5					
53         10/12/2018 11:11         0.5         0.5         0.4           54         10/12/2018 11:12         0.5         0.5         0.4           55         10/12/2018 11:13         0.4         0.5         0.4           56         10/12/2018 11:14         0.4         0.4         0.4           57         10/12/2018 11:15         0.4         0.4         0.4           58         10/12/2018 11:16         0.5         0.5         0.5           59         10/12/2018 11:17         0.5         0.6         0.5           60         10/12/2018 11:18         0.5         0.5         0.5           61         10/12/2018 11:19         0.5         0.5         0.5           62         10/12/2018 11:20         0.5         0.5         0.5           63         10/12/2018 11:21         0.5         0.5         0.5					
54         10/12/2018 11:12         0.5         0.5         0.4           55         10/12/2018 11:13         0.4         0.5         0.4           56         10/12/2018 11:14         0.4         0.4         0.4           57         10/12/2018 11:15         0.4         0.4         0.4           58         10/12/2018 11:16         0.5         0.5         0.5           59         10/12/2018 11:17         0.5         0.6         0.5           60         10/12/2018 11:18         0.5         0.5         0.5           61         10/12/2018 11:19         0.5         0.5         0.5           62         10/12/2018 11:20         0.5         0.5         0.5           63         10/12/2018 11:21         0.5         0.5         0.5	52	10/12/2018 11:10	0.4	0.5	
55         10/12/2018 11:13         0.4         0.5         0.4           56         10/12/2018 11:14         0.4         0.4         0.4           57         10/12/2018 11:15         0.4         0.4         0.4           58         10/12/2018 11:16         0.5         0.5         0.5           59         10/12/2018 11:17         0.5         0.6         0.5           60         10/12/2018 11:18         0.5         0.5         0.5           61         10/12/2018 11:19         0.5         0.5         0.5           62         10/12/2018 11:20         0.5         0.5         0.5           63         10/12/2018 11:21         0.5         0.5         0.5	53	10/12/2018 11:11	0.5		0.4
56         10/12/2018 11:14         0.4         0.4         0.4           57         10/12/2018 11:15         0.4         0.4         0.4           58         10/12/2018 11:16         0.5         0.5         0.5           59         10/12/2018 11:17         0.5         0.6         0.5           60         10/12/2018 11:18         0.5         0.5         0.5           61         10/12/2018 11:19         0.5         0.5         0.5           62         10/12/2018 11:20         0.5         0.5         0.5           63         10/12/2018 11:21         0.5         0.5         0.5	54	10/12/2018 11:12	0.5	0.5	0.4
57     10/12/2018 11:15     0.4     0.4     0.4       58     10/12/2018 11:16     0.5     0.5     0.5       59     10/12/2018 11:17     0.5     0.6     0.5       60     10/12/2018 11:18     0.5     0.5     0.5       61     10/12/2018 11:19     0.5     0.5     0.5       62     10/12/2018 11:20     0.5     0.5     0.5       63     10/12/2018 11:21     0.5     0.5     0.5	55	10/12/2018 11:13	0.4	0.5	0.4
58     10/12/2018 11:16     0.5     0.5     0.5       59     10/12/2018 11:17     0.5     0.6     0.5       60     10/12/2018 11:18     0.5     0.5     0.5       61     10/12/2018 11:19     0.5     0.5     0.5       62     10/12/2018 11:20     0.5     0.5     0.5       63     10/12/2018 11:21     0.5     0.5     0.5	56	10/12/2018 11:14	0.4	0.4	0.4
599 10/12/2018 11:17 0.5 0.6 0.5 600 10/12/2018 11:18 0.5 0.5 0.5 61 10/12/2018 11:19 0.5 0.5 0.5 62 10/12/2018 11:20 0.5 0.5 0.5 63 10/12/2018 11:21 0.5 0.5 0.5	57	10/12/2018 11:15	0.4	0.4	0.4
59     10/12/2018 11:17     0.5     0.6     0.5       60     10/12/2018 11:18     0.5     0.5     0.5       61     10/12/2018 11:19     0.5     0.5     0.5       62     10/12/2018 11:20     0.5     0.5     0.5       63     10/12/2018 11:21     0.5     0.5     0.5	58				0.5
60     10/12/2018 11:18     0.5     0.5     0.5       61     10/12/2018 11:19     0.5     0.5     0.5       62     10/12/2018 11:20     0.5     0.5     0.5       63     10/12/2018 11:21     0.5     0.5     0.5	59				0.5
61 10/12/2018 11:19 0.5 0.5 0.5 62 10/12/2018 11:20 0.5 0.5 0.5 63 10/12/2018 11:21 0.5 0.5 0.5					0.5
62 10/12/2018 11:20 0.5 0.5 0.5 63 10/12/2018 11:21 0.5 0.5 0.5					0.5
63 10/12/2018 11:21 0.5 0.5 0.5					
	•	,,,	0.5	0.5	0.5

	Date/Time	(Avg)	(Max)	(Real)
65	10/12/2018 11:23	0.5	0.5	0.5
66	10/12/2018 11:24	0.5	0.5	0.5
67	10/12/2018 11:25	0.5	0.5	0.4
68	10/12/2018 11:26	0.4	0.5 0.4	0.4
69 70	10/12/2018 11:27 10/12/2018 11:28	0.4 0.4	0.4	0.4 0.4
71	10/12/2018 11:29	0.4	0.4	0.4
72	10/12/2018 11:30	0.4	0.4	0.4
73	10/12/2018 11:31	0.4	0.4	0.4
74	10/12/2018 11:32	0.4	0.4	0.4
75	10/12/2018 11:33	0.4	0.4	0.4
76	10/12/2018 11:34	0.3	0.4	0.3
77	10/12/2018 11:35	0.3	0.3	0.3
78 79	10/12/2018 11:36	0.3	0.3	0.3
80	10/12/2018 11:37 10/12/2018 11:38	0.2 0.2	0.3	0.3
81	10/12/2018 11:39	0.2	0.3	0.2
82	10/12/2018 11:40	0.2	0.2	0.2
83	10/12/2018 11:41	0.2	0.2	0.2
84	10/12/2018 11:42	0.2	0.2	0.2
85	10/12/2018 11:43	0.2	0.2	0.2
86	10/12/2018 11:44	0.2	0.2	0.1
87	10/12/2018 11:45	0.1	0.2	0.2
88	10/12/2018 11:46	0.1	0.1	0.1
89 90	10/12/2018 11:47 10/12/2018 11:48	0.1 0.1	0.2	0.1 0.1
91	10/12/2018 11:48	0.1	0.2	0.1
92	10/12/2018 11:50	0.1	0.2	0.1
93	10/12/2018 11:51	0.1	0.2	0.2
94	10/12/2018 11:52	0.1	0.2	0.1
95	10/12/2018 11:53	0.1	0.2	0.1
96	10/12/2018 11:54	0.1	0.2	0.1
97	10/12/2018 11:55	0.1	0.2	0.1
98	10/12/2018 11:56	0.1	0.2	0.1
99 100	10/12/2018 11:57 10/12/2018 11:58	0.1 0.2	0.2 0.2	0.1 0.1
100	10/12/2018 11:59	0.2	0.2	0.1
102	10/12/2018 12:00	0.1	0.1	0.1
103	10/12/2018 12:01	0.1	0.2	0.1
104	10/12/2018 12:02	0.1	0.2	0.1
105	10/12/2018 12:03	0.1	0.2	0.1
106	10/12/2018 12:04	0.1	0.1	0.1
107	10/12/2018 12:05	0.1	0.2	0.1
108 109	10/12/2018 12:06	0.1 0.1	0.2 0.2	0.1 0.1
110	10/12/2018 12:07 10/12/2018 12:08	0.1	0.2	0.1
111	10/12/2018 12:09	0.1	0.2	0.1
112	10/12/2018 12:10	0.1	0.2	0.1
113	10/12/2018 12:11	0.1	0.1	0.1
114	10/12/2018 12:12	0.1	0.1	0.1
115	10/12/2018 12:13	0.1	0.1	0.1
116	10/12/2018 12:14	0.1	0.1	0.1
117	10/12/2018 12:15	0.1	0.1	0.1
118 119	10/12/2018 12:16 10/12/2018 12:17	0.1 0.1	0.1 0.1	0.1 0.1
120	10/12/2018 12:17	0.1	0.1	0.1
121	10/12/2018 12:19	0.1	0.1	0.1
122	10/12/2018 12:20	0.1	0.1	0
123	10/12/2018 12:21	0.1	0.1	0.1
124	10/12/2018 12:22	0.1	0.1	0.1
125	10/12/2018 12:23	0.1	0.1	0.1
126	10/12/2018 12:24	0.1	0.1	0.1
127	10/12/2018 12:25	0.1	0.1	0.1
128 129	10/12/2018 12:26 10/12/2018 12:27	0.1 0.1	0.1 0.1	0.1 0.1
130		0.1	0.1	0.1
131	10/12/2018 12:29	0.1	0.1	0.1
132	10/12/2018 12:30	0.1	0.1	0.1
133	10/12/2018 12:31	0.1	0.1	0.1
134	10/12/2018 12:32	0.1	0.1	0.1
135	10/12/2018 12:33	0.1	0.1	0.1

	Date/Time	(Avg)	(Max)	(Real)
136	10/12/2018 12:34	0.1	0.1	0.1
137	10/12/2018 12:35	0.1	0.1	0.1
138 139	10/12/2018 12:36 10/12/2018 12:37	0.1	0.1 0.1	0.1 0.1
140	10/12/2018 12:38	0.1	0.1	0.1
141	10/12/2018 12:39	0.2	0.5	0.2
142	10/12/2018 12:40	0.2	0.2	0.1
143	10/12/2018 12:41	0.1	0.2	0.1
144	10/12/2018 12:42	0.1	0.1	0.1
145	10/12/2018 12:43	0.1	0.1	0.1
146	10/12/2018 12:44	0.3	0.7	0.4
147 148	10/12/2018 12:45 10/12/2018 12:46	0.2 0.1	0.4 0.1	0.1 0.1
149	10/12/2018 12:40	0.1	0.1	0.1
150	10/12/2018 12:48	0.1	0.1	0.1
151	10/12/2018 12:49	0.1	0.1	0.1
152	10/12/2018 12:50	0.1	0.1	0.1
153	10/12/2018 12:51	0.1	0.2	0.1
154	10/12/2018 12:52	0.1	0.2	0.1
155	10/12/2018 12:53	0.1	0.1	0.1
156 157	10/12/2018 12:54 10/12/2018 12:55	0.1	0.1 0.1	0.1 0.1
158	10/12/2018 12:56	0.1	0.1	0.1
159	10/12/2018 12:57	0.1	0.1	0.1
160	10/12/2018 12:58	0.1	0.1	0.1
161	10/12/2018 12:59	0.1	0.1	0.1
162	10/12/2018 13:00	0.1	0.1	0.1
163	10/12/2018 13:01	0.1	0.1	0.1
164	10/12/2018 13:02	0.1	0.1	0.1
165 166	10/12/2018 13:03 10/12/2018 13:04	0.1	0.1 0.1	0.1 0.1
167	10/12/2018 13:04	0.1	0.1	0.1
168	10/12/2018 13:06	0.1	0.1	0.1
169	10/12/2018 13:07	0.1	0.1	0.1
170	10/12/2018 13:08	0.1	0.1	0.1
171	10/12/2018 13:09	0.1	0.1	0.1
172	10/12/2018 13:10	0.1	0.1	0.1
173	10/12/2018 13:11	0.1	0.1	0.1
174 175	10/12/2018 13:12 10/12/2018 13:13	0.1 0.1	0.1 0.1	0.1 0.1
176	10/12/2018 13:14	0.1	0.1	0.1
177	10/12/2018 13:15	0.1	0.1	0.1
178	10/12/2018 13:16	0.1	0.1	0.1
179	10/12/2018 13:17	0.1	0.1	0.1
180	10/12/2018 13:18	0.1	0.1	0.1
181	10/12/2018 13:19	0.1	0.1	0.1
182	10/12/2018 13:20	0.1	0.1	0.1
183 184	10/12/2018 13:21 10/12/2018 13:22	0.1 0.1	0.1 0.1	0.1 0.1
185	10/12/2018 13:22	0.1	0.1	0.1
186	10/12/2018 13:24	0.1	0.1	0.1
187	10/12/2018 13:25	0.1	0.1	0.1
188	10/12/2018 13:26	0.1	0.1	0.1
189	10/12/2018 13:27	0.1	0.1	0.1
190	10/12/2018 13:28	0.1	0.1	0.1
191 192	10/12/2018 13:29 10/12/2018 13:30	0.1	0.1	0.1
192	10/12/2018 13:30	0.1	0.1	
194	10/12/2018 13:31	0.1	0.1	0.1
195	10/12/2018 13:33	0.1	0.1	0.1
196	10/12/2018 13:34	0.1	0.1	0.1
197	10/12/2018 13:35	0.1	0.1	0.1
198	10/12/2018 13:36	0.1	0.1	0.1
199	10/12/2018 13:37	0.1	0.1	0.1
200	10/12/2018 13:38	0.1	0.1	0.1
201 202	10/12/2018 13:39 10/12/2018 13:40	0.1 0.1	0.1 0.1	0.1
202	10/12/2018 13:40	0.1	0.1	0.1 0.1
204	10/12/2018 13:42	0.1	0.1	0.1
205	10/12/2018 13:43	0.1	0.1	0.1
206	10/12/2018 13:44	0.1	0.1	0.1
207	10/12/2018 13:45	0.1	0.1	0.1
208	10/12/2018 13:46	0.1	0.1	0.1
209	10/12/2018 13:47	0.1	0.1	0.1
210	10/12/2018 13:48	0.1	0.1	0.1

Index		Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
	211	10/12/2018 13:49	0.1	0.1	0.1
	242	10/12/2010 12:50	0.1	0.4	0.1

Dato/Tie	ma	PID(ppm)	PID(ppm)	PID(ppm) (Real)
Date/Tir 211	10/12/2018 13:49	(Avg) 0.1	(Max) 0.1	(Real) 0.1
212	10/12/2018 13:50	0.1	0.1	0.1
213	10/12/2018 13:51	0.1	0.1	0.1
214	10/12/2018 13:52	0.1	0.1	0.1
215	10/12/2018 13:53	0.1	0.1	0.1
216 217	10/12/2018 13:54 10/12/2018 13:55	0.1 0.1	0.1 0.1	0.1 0.1
217	10/12/2018 13:56	0.1	0.1	0.1
219	10/12/2018 13:57	0.1	0.1	0.1
220	10/12/2018 13:58	0.1	0.1	0.1
221	10/12/2018 13:59	0.1	0.1	0.1
222	10/12/2018 14:00	0.1	0.1	0.1
223 224	10/12/2018 14:01	0.1 0.1	0.1 0.1	0.1 0.1
224	10/12/2018 14:02 10/12/2018 14:03	0.1	0.1	0.1
226	10/12/2018 14:04	0.1	0.1	0.1
227	10/12/2018 14:05	0.1	0.1	0
228	10/12/2018 14:06	0	0.1	0
229	10/12/2018 14:07	0	0.1	0
230 231	10/12/2018 14:08 10/12/2018 14:09	0	0	0
231	10/12/2018 14:09	0	0	0
233	10/12/2018 14:11	0	0	0
234	10/12/2018 14:12	0	0	0
235	10/12/2018 14:13	0	0	0
236	10/12/2018 14:14	0	0	0
237	10/12/2018 14:15 10/12/2018 14:16	0	0	0
238 239	10/12/2018 14:16	0	0	0
240	10/12/2018 14:17	0	0	0
241	10/12/2018 14:19	0	0	0
242	10/12/2018 14:20	0	0	0
243	10/12/2018 14:21	0	0	0
244	10/12/2018 14:22	0	0	0
245 246	10/12/2018 14:23 10/12/2018 14:24	0	0	0
247	10/12/2018 14:25	0	0	0
248	10/12/2018 14:26	0	0	0
249	10/12/2018 14:27	0	0	0
250	10/12/2018 14:28	0	0	0
251 252	10/12/2018 14:29	0	0	0
252	10/12/2018 14:30 10/12/2018 14:31	0	0	0
254	10/12/2018 14:32	0	0	0
255	10/12/2018 14:33	0	0	0
256	10/12/2018 14:34	0	0	0
257	10/12/2018 14:35	0	0	0
258 259	10/12/2018 14:36 10/12/2018 14:37	0	0	0
260	10/12/2018 14:37	0	0	0
261	10/12/2018 14:39	0	0	0
262	10/12/2018 14:40	0	0	0
263	10/12/2018 14:41	0	0	0
264 265	10/12/2018 14:42	0	0	0
266	10/12/2018 14:43 10/12/2018 14:44	0	0	0
267	10/12/2018 14:45	0	0	0
268	10/12/2018 14:46	0	0	0
269	10/12/2018 14:47	0	0	0
270	10/12/2018 14:48	0	0	0
271 272	10/12/2018 14:49 10/12/2018 14:50	0	0	0
272	10/12/2018 14:50	0	0	0
274	10/12/2018 14:52	0	0.1	0.1
275	10/12/2018 14:53	0	0.1	Ō
276	10/12/2018 14:54	0	0.1	0
277	10/12/2018 14:55	0	0.1	0.1
278 279	10/12/2018 14:56 10/12/2018 14:57	0.1 0.1	0.1 0.1	0.1 0.1
279 280	10/12/2018 14:57	0.1	0.1	0.1
281	10/12/2018 14:59	0.1	0.1	0.1
282	10/12/2018 15:00	0.1	0.1	0.1
283	10/12/2018 15:01	0.1	0.1	0.1
284	10/12/2018 15:02	0.1	0.1	0.1
285	10/12/2018 15:03	0.1	0.1	0.1
286 287	10/12/2018 15:04 10/12/2018 15:05	0.1	0.1 0.1	0.1 0.1
	_5, 12, 2510 15.05	0.5	0.7	0.5
		0	0	0
		0.1	0.2	0.1

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Peak Min Average | PID(ppm) PID(ppm) PID(ppm) | PI

	Date/Time	(Avg)		(Rea
1	10/12/2018 10:19			
2	10/12/2018 10:20	0		
3	10/12/2018 10:21			
4	10/12/2018 10:22	0		
5	10/12/2018 10:23	0		
6	10/12/2018 10:24			
7	10/12/2018 10:25			
8	10/12/2018 10:26			
9	10/12/2018 10:27			
10	10/12/2018 10:28			
11	10/12/2018 10:29			
12	10/12/2018 10:30			
13	10/12/2018 10:31			
14	10/12/2018 10:32			
15	10/12/2018 10:33	0	0	
16	10/12/2018 10:34	0	0	
17	10/12/2018 10:35	0	0	
18	10/12/2018 10:36	0	0	
19	10/12/2018 10:37	0	0	
20	10/12/2018 10:38	0	0	
21	10/12/2018 10:39	0	0	
22	10/12/2018 10:40	0	0.1	
23	10/12/2018 10:41	0	0.1	
24	10/12/2018 10:42	0	0.1	
25	10/12/2018 10:43	0	0.1	
26	10/12/2018 10:44	0	0.2	
27 28	10/12/2018 10:45	0	0.2	
	10/12/2018 10:46	0	0.2	
29	10/12/2018 10:47	0	0.3	
30	10/12/2018 10:48	0	0.3	
31	10/12/2018 10:49	0	0.3	
32 33	10/12/2018 10:50 10/12/2018 10:51	0	0.4	
34	10/12/2018 10:51	0	0.4	
35		0	0.4	
36	10/12/2018 10:53 10/12/2018 10:54	0	0.4	
37	10/12/2018 10:55	0	0.5	
38	10/12/2018 10:56	0	0.5	
39	10/12/2018 10:57	0	0.5	
40	10/12/2018 10:58	0	0.5	
41	10/12/2018 10:59	0	0.5	
42	10/12/2018 10:59	0	0.5	
43	10/12/2018 11:01	0	0.5	
44	10/12/2018 11:02	0	0.5	
45	10/12/2018 11:03	0	0.5	
46	10/12/2018 11:04	0	0.4	
47	10/12/2018 11:05	0	0.4	
48	10/12/2018 11:06	0	0.4	
49	10/12/2018 11:07	0	0.4	
50	10/12/2018 11:08	0	0.4	
51	10/12/2018 11:09	0	0.4	
52	10/12/2018 11:10	0	0.4	
53	10/12/2018 11:11	0	0.4	
54	10/12/2018 11:12	0	0.4	
55	10/12/2018 11:13	0	0.4	
56	10/12/2018 11:14	0	0.4	
57	10/12/2018 11:15	0	0.4	
58	10/12/2018 11:16	0	0.4	
59	10/12/2018 11:17	0	0.4	
60	10/12/2018 11:18	0	0.4	
61	10/12/2018 11:19	0	0.4	
62	10/12/2018 11:20	0	0.5	
63	10/12/2018 11:21	0	0.5	
64	10/12/2018 11:22	0	0.5	
65	10/12/2018 11:23	0	0.5	
66	10/12/2018 11:24	0	0.5	
67	10/12/2018 11:25	0	0.5	
68	10/12/2018 11:26	0	0.5	
69	10/12/2018 11:27	0	0.5	
70	10/12/2018 11:28	0	0.5	
71	10/12/2018 11:29	0	0.5	
72	10/12/2018 11:30	0	0.5	
73	10/12/2018 11:31	0	0.5	
74	10/12/2018 11:32	0	0.5	
75	10/12/2018 11:33	0	0.5	
76	10/12/2018 11:34	0	0.5	
77	10/12/2018 11:35	0	0.4	
78	10/12/2018 11:36	0.1	0.4	
79	10/12/2018 11:37	0.1	0.4	
80	10/12/2018 11:38	0.1	0.4	
81	10/12/2018 11:39	0.1	0.4	
82	10/12/2018 11:40	0.1	0.4	
83	10/12/2018 11:41	0.1	0.3	
84	10/12/2018 11:42	0.1	0.3	

| PID(ppm) PID(ppm) PID(ppm) | PI

	Date/Time	(Avg)	(Max)	(Real
85	10/12/2018 11:43	0.1	0.3	(
86	10/12/2018 11:44	0.1	0.3	
87	10/12/2018 11:45	0.1	0.3	
88	10/12/2018 11:46	0.1	0.3	
89 90	10/12/2018 11:47 10/12/2018 11:48	0.1	0.2	
91	10/12/2018 11:49	0.1	0.2	
92	10/12/2018 11:50	0.1	0.2	
93	10/12/2018 11:51	0.1	0.2	
94	10/12/2018 11:52	0.1	0.2	
95	10/12/2018 11:53	0.1	0.2	
96 97	10/12/2018 11:54 10/12/2018 11:55	0.1 0.1	0.2 0.2	
98	10/12/2018 11:56	0.1	0.2	
99	10/12/2018 11:57	0.1	0.1	
.00	10/12/2018 11:58	0.1	0.1	
.01	10/12/2018 11:59	0.1	0.1	
.02	10/12/2018 12:00	0.1	0.1	
.03 .04	10/12/2018 12:01 10/12/2018 12:02	0.1 0.1	0.1	
.05	10/12/2018 12:02	0.1	0.1	
.06	10/12/2018 12:04	0.1	0.1	
.07	10/12/2018 12:05	0.1	0.1	
.08	10/12/2018 12:06	0.1	0.1	
.09	10/12/2018 12:07	0.1	0.1	
.10 .11	10/12/2018 12:08 10/12/2018 12:09	0.1	0.1	
12	10/12/2018 12:09	0.1	0.1	
.13	10/12/2018 12:11	0.1	0.1	
.14	10/12/2018 12:12	0.1	0.1	
15	10/12/2018 12:13	0.1	0.1	
.16	10/12/2018 12:14	0.1	0.1	
.17	10/12/2018 12:15	0.1	0.1	
.18 .19	10/12/2018 12:16 10/12/2018 12:17	0.1	0.1	
20	10/12/2018 12:18	0.1	0.1	
21	10/12/2018 12:19	0.1	0.1	
22	10/12/2018 12:20	0.1	0.1	
.23	10/12/2018 12:21	0.1	0.1	
.24	10/12/2018 12:22	0.1	0.1	
.25 .26	10/12/2018 12:23 10/12/2018 12:24	0.1 0.1	0.1 0.1	
27	10/12/2018 12:25	0.1	0.1	
.28	10/12/2018 12:26	0.1	0.1	
.29	10/12/2018 12:27	0.1	0.1	
.30	10/12/2018 12:28	0.1	0.1	
.31 .32	10/12/2018 12:29 10/12/2018 12:30	0.1	0.1	
.33	10/12/2018 12:31	0.1	0.1	
34	10/12/2018 12:32	0.1	0.1	
.35	10/12/2018 12:33	0.1	0.1	
.36	10/12/2018 12:34	0.1	0.1	
.37	10/12/2018 12:35	0.1	0.1	
.38 .39	10/12/2018 12:36 10/12/2018 12:37	0.1 0.1	0.1 0.1	
.40	10/12/2018 12:38	0.1	0.1	
41	10/12/2018 12:39	0.1	0.1	
42	10/12/2018 12:40	0.1	0.1	
.43	10/12/2018 12:41	0.1	0.1	
44	10/12/2018 12:42	0.1	0.1	
.45 .46	10/12/2018 12:43 10/12/2018 12:44	0.1 0.1	0.1 0.1	
47	10/12/2018 12:45	0.1	0.1	
48	10/12/2018 12:46	0.1	0.1	
.49	10/12/2018 12:47	0.1	0.1	
.50	10/12/2018 12:48	0.1	0.1	
.51	10/12/2018 12:49	0.1 0.1	0.1 0.1	
.52 .53	10/12/2018 12:50 10/12/2018 12:51	0.1	0.1	
.54	10/12/2018 12:52	0.1	0.1	
.55	10/12/2018 12:53	0.1	0.1	
.56	10/12/2018 12:54	0.1	0.1	
.57	10/12/2018 12:55	0.1	0.1	
.58	10/12/2018 12:56	0.1	0.1	
.59 .60	10/12/2018 12:57 10/12/2018 12:58	0.1 0.1	0.1 0.1	
61	10/12/2018 12:59	0.1	0.1	
62	10/12/2018 13:00	0.1	0.1	
63	10/12/2018 13:01	0.1	0.1	
64	10/12/2018 13:02	0.1	0.1	
.65	10/12/2018 13:03	0.1	0.1	
.66 .67	10/12/2018 13:04 10/12/2018 13:05	0.1	0.1	
.68	10/12/2018 13:06	0.1	0.1	
.69	10/12/2018 13:07	0.1	0.1	
.70	10/12/2018 13:08	0.1	0.1	
.71	10/12/2018 13:09	0.1	0.1	

| PID(ppm) PID(ppm) PID(ppm) | PI

	Date/Time	(Avg)	(Max)	(Rea
172	10/12/2018 13:10	0.1	0.1	(
173	10/12/2018 13:11	0.1	0.1	
174 175	10/12/2018 13:12 10/12/2018 13:13	0.1 0.1	0.1 0.1	
176	10/12/2018 13:14	0.1	0.1	
177	10/12/2018 13:15	0.1	0.1	
178	10/12/2018 13:16	0.1	0.1	
179	10/12/2018 13:17	0.1	0.1	
180 181	10/12/2018 13:18 10/12/2018 13:19	0.1 0.1	0.1 0.1	
182	10/12/2018 13:20	0.1	0.1	
183	10/12/2018 13:21	0.1	0.1	
184	10/12/2018 13:22	0.1	0.1	
185 186	10/12/2018 13:23	0.1	0.1	
187	10/12/2018 13:24 10/12/2018 13:25	0.1 0.1	0.1 0.1	
188	10/12/2018 13:26	0.1	0.1	
189	10/12/2018 13:27	0.1	0.1	
190	10/12/2018 13:28	0.1	0.1	
191 192	10/12/2018 13:29 10/12/2018 13:30	0.1 0.1	0.1 0.1	
193	10/12/2018 13:31	0.1	0.1	
194	10/12/2018 13:32	0.1	0.1	
195	10/12/2018 13:33	0.1	0.1	
196	10/12/2018 13:34	0.1	0.1	
197 198	10/12/2018 13:35 10/12/2018 13:36	0.1	0.1	
199	10/12/2018 13:37	0.1	0.1	
200	10/12/2018 13:38	0.1	0.1	
201	10/12/2018 13:39	0.1	0.1	
202 203	10/12/2018 13:40 10/12/2018 13:41	0.1 0.1	0.1 0.1	
203	10/12/2018 13:41	0.1	0.1	
205	10/12/2018 13:43	0.1	0.1	
206	10/12/2018 13:44	0.1	0.1	
207	10/12/2018 13:45	0.1	0.1	
208 209	10/12/2018 13:46 10/12/2018 13:47	0.1 0.1	0.1 0.1	
210	10/12/2018 13:48	0.1	0.1	
211	10/12/2018 13:49	0.1	0.1	
212	10/12/2018 13:50	0.1	0.1	
213 214	10/12/2018 13:51 10/12/2018 13:52	0.1 0.1	0.1 0.1	
214	10/12/2018 13:53	0.1	0.1	
216	10/12/2018 13:54	0.1	0.1	
217	10/12/2018 13:55	0.1	0.1	
218	10/12/2018 13:56	0.1	0.1	
219 220	10/12/2018 13:57 10/12/2018 13:58	0.1 0.1	0.1	
221	10/12/2018 13:59	0.1	0.1	
222	10/12/2018 14:00	0.1	0.1	
223	10/12/2018 14:01	0.1	0.1	
224 225	10/12/2018 14:02 10/12/2018 14:03	0.1 0.1	0.1	
226	10/12/2018 14:04	0.1	0.1	
227	10/12/2018 14:05	0.1	0.1	
228	10/12/2018 14:06	0.1	0.1	
229	10/12/2018 14:07	0.1	0.1	
230 231	10/12/2018 14:08 10/12/2018 14:09	0.1 0.1	0.1 0.1	
232	10/12/2018 14:10	0.1	0.1	
233	10/12/2018 14:11	0.1	0.1	
234	10/12/2018 14:12	0.1	0.1	
235 236	10/12/2018 14:13 10/12/2018 14:14	0.1 0.1	0	
237	10/12/2018 14:14	0.1	0	
238	10/12/2018 14:16	0.1	0	
239	10/12/2018 14:17	0.1	0	
240	10/12/2018 14:18	0.1	0	
241 242	10/12/2018 14:19 10/12/2018 14:20	0.1 0.1	0	
243	10/12/2018 14:21	0.1	0	
244	10/12/2018 14:22	0.1	0	
245	10/12/2018 14:23	0.1	0	
246	10/12/2018 14:24	0.1	0	
247 248	10/12/2018 14:25 10/12/2018 14:26	0.1 0.1	0	
249	10/12/2018 14:27	0.1	0	
250	10/12/2018 14:28	0.1	0	
251	10/12/2018 14:29	0.1	0	
252 253	10/12/2018 14:30 10/12/2018 14:31	0.1 0.1	0	
253 254	10/12/2018 14:31	0.1	0	
255	10/12/2018 14:33	0.1	0	
256	10/12/2018 14:34	0.1	0	
257	10/12/2018 14:35	0.1	0	
258	10/12/2018 14:36	0.1	0	

			PID(ppm)	PID(ppm) PID(ppm)
Index	Dat	te/Time	(Avg)	(Max) (Real)
	259	10/12/2018 14:37	0.1	0
	260	10/12/2018 14:38	0.1	0
	261	10/12/2018 14:39	0.1	0
	262	10/12/2018 14:40	0.1	0
	263	10/12/2018 14:41	0.1	0
	264	10/12/2018 14:42	0.1	0
	265	10/12/2018 14:43	0.1	0
	266	10/12/2018 14:44	0.1	0
	267	10/12/2018 14:45	0.1	0
	268	10/12/2018 14:46	0.1	0
	269	10/12/2018 14:47	0.1	0
	270	10/12/2018 14:48	0.1	0
	271	10/12/2018 14:49	0.1	0
	272	10/12/2018 14:50	0.1	0
	273	10/12/2018 14:51	0.1	0
	274	10/12/2018 14:52	0.1	0
	275	10/12/2018 14:53	0.1	0
	276	10/12/2018 14:54	0.1	0
	277	10/12/2018 14:55	0.1	0
	278	10/12/2018 14:56	0.1	0
	279	10/12/2018 14:57	0.1	0
	280	10/12/2018 14:58	0.1	0
	281	10/12/2018 14:59	0.1	0
	282	10/12/2018 15:00	0.1	0
	283	10/12/2018 15:01	0.1	0.1
	284	10/12/2018 15:02	0.1	0.1
	285	10/12/2018 15:03		0.1
	286	10/12/2018 15:04	0.1	0.1
	287	10/12/2018 15:05	0.1	0.1
	=			

18/10/15 09:01

Summary

Unit Name

Unit SN Unit Firmware Ver

Running Mode Datalog Mode

Diagnostic Mode Stop Reason

Site ID

User ID

Begin

End Sample Period(s) Number of Records

Sensor Sensor SN

Measure Type

Span

Span 2

Low Alarm High Alarm Over Alarm

STEL Alarm TWA Alarm

Measurement Gas

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Datalog

0 record.

MiniRAE 3000(PGM-7320) 592-916196 V2.16

Hygiene Mode Auto

No Power Down

12345678 12345678

10/15/2018 9:01

10/15/2018 9:02 60 0

PID(ppm) S023030233SB Avg; Max; Real

100

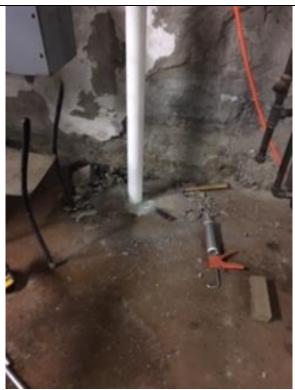
25 10

Isobutylene 10/10/2018 15:46

## APPENDIX 5 PHOTOGRAPHIC LOG



Exterior riser (PVC).



**DP-01** – Vertical depressurization point during installation.



**DP-02** – Vertical depressurization point.



**DP-03** – Horizontal depressurization point extending below the western portion of the Site building where no basement is present.





Festa Radon Technologies Company FRT Force fan, located on the roof of the Site building.



Sealing of floor cracks in building basement.



U-tube manometer on one of the depressurization points.



U-tube manometer and label on one of the depressurization points

