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Bristol-Myers Squibb Company

BUILDING 22 AREA SOIL REMOVAL INTERIM REMEDIAL MEASURE SUMMARY REPORT

Syracuse North Campus Restoration Area

NYSDEC BCP Site #C734138

January 2020

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NYSDEC BCP Site #C734138

Prepared for:

Bristol-Myers Squibb Company

Prepared by:

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Date:

January 2020

Mark Gravelding
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I, *Mark Gravelding, certify that I am currently a New York State registered Professional Engineer and that this Building 22 Area Soil Removal Interim Remedial Measure Summary Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).*

William McCune
Principal Geologist/ Project Manager

Daniel Zuck, CPG
Associate Project Manager

CONTENTS

TABLE

FIGURES

ATTACHMENTS

ACRONYMS AND ABBREVIATIONS

Abscope	Abscope Environmental, Inc. of Canastota, New York
Arcadis	Arcadis of New York, Inc.
BDA	Brownfield Development Area
bgs	below ground surface
BMS	Bristol-Myers Squibb Company
CAMP	Community Air Monitoring Plan
CT Male	CT Male Associates
Eurofins	Eurofins Lancaster Environmental Laboratories of Lancaster, Pennsylvania
IRM	Interim Remedial Measure
PCB	polychlorinated biphenyl
TCLP	Toxicity Characteristic Leaching Procedure

1 INTRODUCTION

This *Building 22 Area Soil Removal Interim Remedial Measure Summary Report* has been developed for the Bristol-Myers Squibb Company (BMS) to document observations and sampling activities performed by Arcadis of New York, Inc. (Arcadis) in connection with soil excavation activities in the Building 22 area at the Syracuse North Campus Restoration Area, which is also referred to as the Brownfield Development Area (BDA). The BDA is part of the BMS Facility located at 6000 Thompson Road in East Syracuse, New York. The layout of the BDA and BMS Facility are shown on Figure 1.

2 BUILDING 22 AREA SOIL EXCAVATION ACTIVITIES

Field activities were conducted in accordance with the *Building 22 Soil Removal Interim Remedial Measure (IRM) Work Plan* and relevant existing project remedial investigation work plans, including the *Field Sampling and Analysis Plan, Quality Assurance Project Plan*, and *Community Air Monitoring Plan* (CAMP).

A summary of each step of the IRM activities performed in connection with the soil removal completed by Abscope Environmental, Inc. of Canastota, New York (Abscope), and overseen by Arcadis are detailed below.

2.1 Site Preparation

The proposed excavation limits were staked in the field by CT Male Associates (CT Male), a New York State-licensed surveyor. A 10-foot grid of control points was also surveyed within the removal area to establish the baseline ground surface elevations prior to the soil excavation. These elevations could then be used to compare the post-excavation elevation survey of the same control points to demonstrate that the planned removal depths were achieved.

Prior to mobilizing for the excavation, Arcadis completed appropriate utility clearance procedures, including reviewing BMS utility drawings and records, calling DigSafely New York to have utilities covered by this program identified and located, contacting National Grid to confirm the location of a high-pressure gas main known to exist in proximity to the work area, and arranging for a National Grid-contracted overwatch person to be present during excavation activities. Arcadis also performed geophysical surveys using ground penetrating radar and electromagnetic sensing equipment across the work zone.

At the request of National Grid, Abscope also contracted a local drilling company, Parratt Wolff Inc., to daylight the high pressure gas line two locations along the western edge of the proposed excavation area, using an air knife and vacuum excavator, to confirm that the line did not run underneath the excavation area. Once the location of the transmission line was confirmed at each location, the holes were backfilled using filter sand (#0 Morie).

Mud matts were laid from the paved parking lot to the eastern edge of the work area to minimize rutting of the existing lawn during movement of equipment to the work area. Erosion controls in the form of 8-inch-diameter silt socks were installed around the perimeter of the work area using stakes to mitigate silts and other fines from being washed downslope during precipitation events.

2.2 Soil Removal

The soil removal activities were completed by Abscope. An Arcadis geologist observed and documented all field activities, including monitoring soil for potential evidence of gross impacts (i.e., staining, odors) and conducting CAMP monitoring. Work was conducted by personnel with hazardous waste operations and emergency response training, using Modified Level D personal protective equipment, and in accordance with the project Health and Safety Plan.

Soil was removed from the excavation area in a north to south direction to a minimum of 3 inches below ground surface (bgs). Excavated soils were temporarily stockpiled in a working pile bermed on the downslope side. A skid steer loader was used to transfer the removed soil into roll-off containers staged in the adjoining paved parking lot.

On June 13, 2019, CT Male returned to the site to conduct the post-excavation survey. The 10-foot grid of control points were resurveyed to compare pre- and post-excavation elevations. Nine of the 43 control points did not meet the 3-inch removal criteria. Abscope returned the following day, June 14, 2019, to address the areas that did not meet the removal criteria as identified by CT Male. Following the second soil removal, CT Male re-surveyed the nine control points on June, 19, 2019, and found that all control points met the 3-inch soil removal criteria.

2.3 Western Site Boundary Soil Sampling

Following soil excavation, six soil samples were collected along the western boundary of the excavation area (Figure 2). Soil samples were collected at each of the three locations from two depth intervals, including 3 to 12 inches bgs and 12 to 24 inches bgs.

Laboratory analysis of the confirmation soil samples was conducted by Eurofins Lancaster Environmental Laboratories of Lancaster, Pennsylvania (Eurofins), a New York State Department of Health-approved laboratory. The samples were analyzed for polychlorinated biphenyls (PCBs) in accordance with United States Environmental Protection Agency's SW-846 Method 8082A. Analytical results of the soil samples are summarized in Table 1. PCBs were detected in all six soil samples. However, none of these detections exceeded the Unrestricted Soil Cleanup Objective for PCBs of 0.1 milligrams per kilograms.

2.4 Equipment Decontamination

Equipment and tools that contacted the removed soil were decontaminated prior to demobilization. Decontamination activities included scraping and water washing and were conducted within a decontamination pad constructed by Abscope with a polyethylene liner. The decontamination pad was located on the adjacent parking area, close to the work area, to minimize transport of impacted material. Rinse water collected in the decontamination pad was pumped into a Department of Transportation-approved 55-gallon drum.

2.5 Waste Characterization and Disposal

One representative sample of the removed soil deposited in the roll-off containers was collected for waste characterization purposes. This composite sample was analyzed for Toxicity Characteristic Leaching

Procedure (TCLP) analysis of semi-volatile organic compounds, pesticides, herbicides, and metals, and for total PCB, reactivity, ignitability, and corrosivity. Additionally, discrete soil samples were collected from each of the five roll-off containers. These discrete soil samples were analyzed for TCLP analysis of volatile organic compounds. Laboratory analysis was conducted at Eurofins.

Results of the waste characterization samples showed that soils removed from the excavation boundary were non-hazardous. A total of 72.9 tons of soil in the five roll-off containers were transported under a Bill of Lading for disposal at the High Acres facility in Fairport, New York (Attachment 4).

The drummed decontamination rinse water was disposed of under the waste profile generated from the BDA-17 well cluster drilling water. The drilling water was analyzed for metals, VOCs, SVOCs, alcohols, glycols, pH, and reactivity. Results of the waste characterization samples determined that the waste waters were non-hazardous and therefore, were transported offsite for disposal (Attachment 4).

2.6 Restoration

Following soil excavation to the required 3-inch depth, the removal area boundaries were sloped to meet existing lawn grade to the north, east, and south. The soil removal area was not backfilled as part of the IRM. BMS will conduct final grading and restoration later, consistent with anticipated future use of this area.

TABLE

Table 1
Soil Analytical Results - PCB

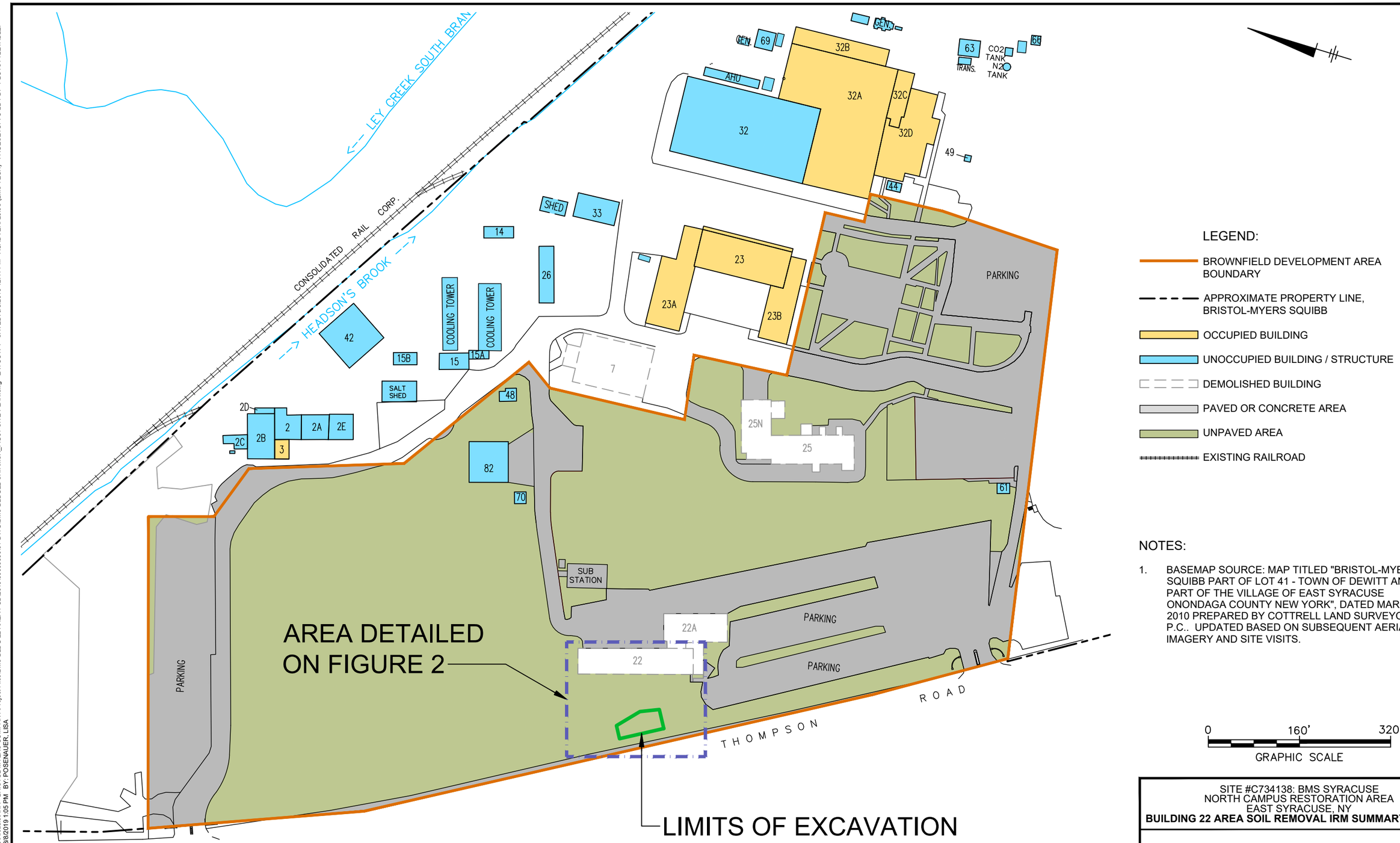
Building 22 Soil Removal Interim Remediation Measure Report
Site #C734138: BMS Syracuse North Campus Restoration Area

Location ID:	CAS Number	Unrestricted Use SCO	Restricted Use SCO - Commercial	BCP-SS-2019A	BCP-SS-2019A	BCP-SS-2019B	BCP-SS-2019B	BCP-SS-2019C	BCP-SS-2019C
Sample Depth(ft):				0.25-1.0	1.0-2.0	0.25-1.0	1.0-2.0	0.25-1.0	1.0-2.0
Date Collected:				06/12/19	06/12/19	06/12/19	06/12/19	06/12/19	06/12/19
PCB - USEPA SW-846 Method 8082/A (mg/kg)									
Aroclor-1016	12674-11-2	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1221	11104-28-2	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1232	11141-16-5	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1242	53469-21-9	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1248	12672-29-6	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1254	11097-69-1	- -	- -	0.014 J	0.01 J	0.0094 J	0.007 J	0.091	0.014 J
Aroclor-1260	11096-82-5	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1262	37324-23-5	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aroclor-1268	11100-14-4	- -	- -	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Total PCB	1336-36-3	0.1	1	0.014 J	0.01 J	0.0094 J	0.007 J	0.091	0.014 J

Notes:

1. Unrestricted use and restricted commercial use SCO are from 6 NYCRR Part 375-6.8.
2. Samples were collected by Arcadis and analyzed by Eurofins Lancaster Laboratories of Lancaster, Pennsylvania.
3. Analytes detected in sample are shown in black font and analytes that are not detected are shown in gray font.
4. Soil investigation depths are from original ground surface prior to excavation.
5. Data have been validated.
6. Abbreviations:
   - - = 6 NYCRR SCO not available.
   6 NYCRR = Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York.
   CAS = Chemical Abstracts Service.
   ft = Feet.
   mg/kg = Milligrams per kilogram or part per million.
   PCB = Polychlorinated biphenyls.
   SCO = Soil Cleanup Objectives.
   USEPA = United States Environmental Protection Agency.
7. Qualifier Definitions:
   J = Estimated value. Result is greater than the MDL but less than the RL.
   U = Analyte not detected at listed reporting detection limit.

FIGURES



LEGEND:

- BROWNFIELD DEVELOPMENT AREA BOUNDARY
- APPROXIMATE PROPERTY LINE, BRISTOL-MYERS SQUIBB
- OCCUPIED BUILDING
- UNOCCUPIED BUILDING / STRUCTURE
- DEMOLISHED BUILDING
- PAVED OR CONCRETE AREA
- UNPAVED AREA
- EXISTING RAILROAD

NOTES:

1. BASEMAP SOURCE: MAP TITLED "BRISTOL-MYERS SQUIBB PART OF LOT 41 - TOWN OF DEWITT AND PART OF THE VILLAGE OF EAST SYRACUSE ONONDAGA COUNTY NEW YORK", DATED MARCH 25, 2010 PREPARED BY COTTRELL LAND SURVEYORS, P.C.. UPDATED BASED ON SUBSEQUENT AERIAL IMAGERY AND SITE VISITS.

0 160' 320'

GRAPHIC SCALE

SITE #C734138: BMS SYRACUSE
NORTH CAMPUS RESTORATION AREA
EAST SYRACUSE, NY
BUILDING 22 AREA SOIL REMOVAL IRM SUMMARY REPORT

SITE PLAN

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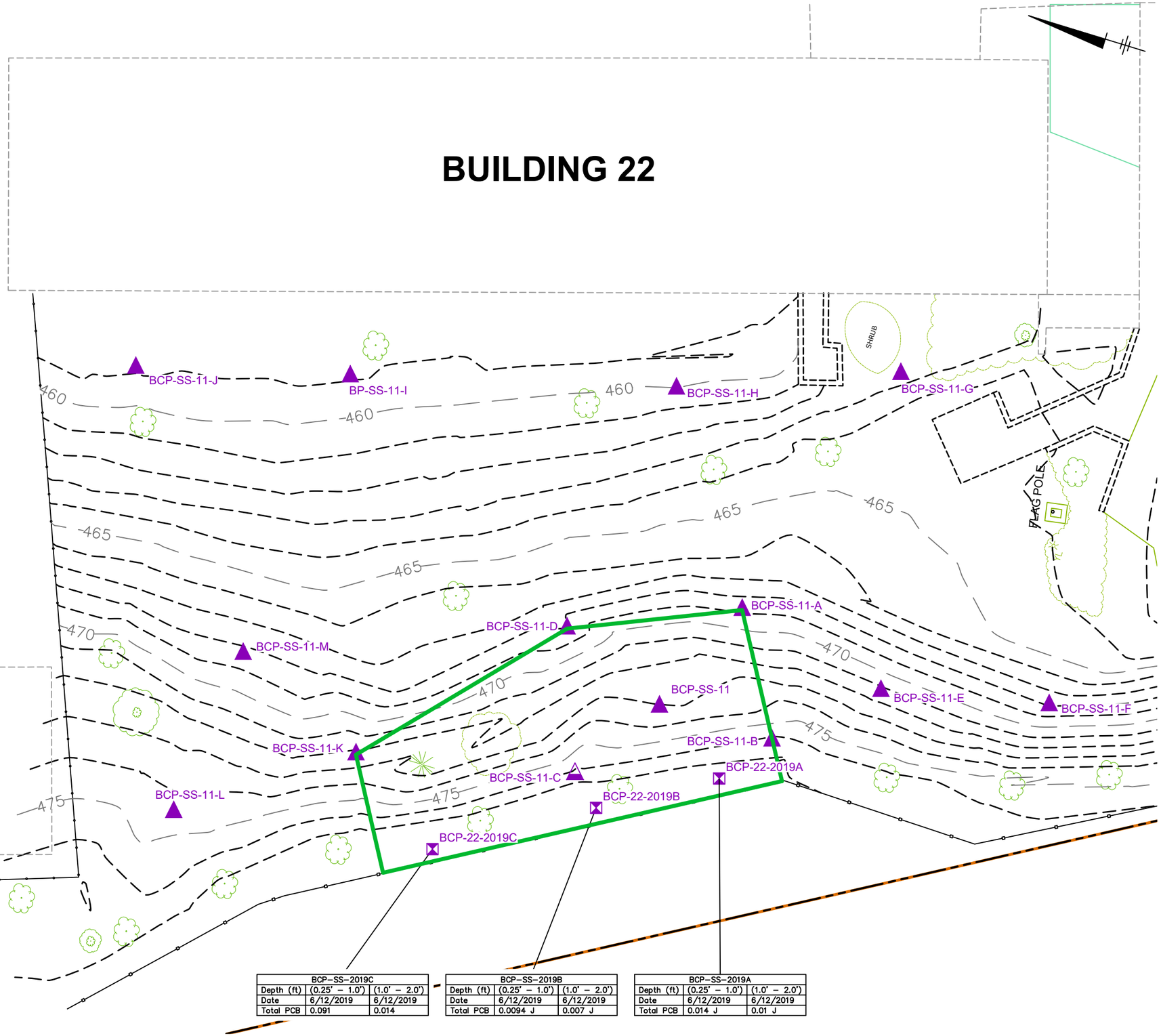
FIGURE 1

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB/LD: L.POSENAUER PM/TM: LYR: ON=*;OFF=REF; (FRZ)
C:\Users\lposenauer\BIM 360\Arcadis\ANA - BRISTOL-MYERS COMPANY\Project Files\BMS BLDG 22 AREA PCB\2019\3000353\01-DWG\BMS-BLDG22-SRIRMSR_FIG01-SITE PLAN.dwg LAYOUT: 1 SAVED: 8/8/2019 12:41 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: C-LB-PDF PLOTSTYLETABLE:
PLTFULL.CTB PLOTTED: 8/8/2019 1:05 PM BY: POSENAUER, LISA
XREFS:
BMS-X-BASE

BUILDING 22



LEGEND:

- APPROXIMATE BROWNFIELD AREA BOUNDARY
- APPROXIMATE PROPERTY LINE, BRISTOL-MYERS SQUIBB
- DEMOLISHED BUILDING (AS OF OCTOBER 2018)
- BUILDING 22 AREA SOIL SAMPLE LOCATION BELOW SUBSURFACE CLEANUP LEVEL (DECEMBER 2016)
- BUILDING 22 AREA SOIL SAMPLE LOCATION ABOVE SUBSURFACE CLEANUP LEVEL (DECEMBER 2016)
- BUILDING 22 AREA SOIL REMOVAL SOIL SAMPLES (JUNE 2019)
- PROPOSED EXCAVATION AREA
- FENCE
- TOPOGRAPHIC LINES

NOTES:

1. BASEMAP SOURCE: MAP TITLED "BRISTOL-MYERS SQUIBB PART OF LOT 41 - TOWN OF DEWITT AND PART OF THE VILLAGE OF EAST SYRACUSE ONONDAGA COUNTY NEW YORK", DATED MARCH 25, 2010 PREPARED BY COTTRELL LAND SURVEYORS, P.C.. UPDATED BASED ON SUBSEQUENT AERIAL IMAGERY, SITE VISITS, AND ADDITIONAL SURVEY DATA PREPARED BY CT MALE ASSOCIATES, DATED DEC. 21, 2016.
2. SAMPLE LOCATIONS AND ELEVATIONS SURVEYED BY CT MALE ASSOCIATES, SYRACUSE, NY.
3. ALL RESULTS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg). DUPLICATE RESULTS ARE SHOWN IN BRACKETS.
4. ALL SAMPLES ANALYZED IN ACCORDANCE WITH USEPA SW-846 METHOD 8082A FOR POLYCHLORINATED BIPHENYLS (PCB).
5. NO PCB CONCENTRATIONS FROM SOIL SAMPLES COLLECTED ON JUNE, 2019 EXCEEDED THE 1 PPM 6 NYCRR PARTY 375-6 COMMERCIAL SOIL CLEANUP OBJECTIVE (SCO).
6. DATA QUALIFIERS:
   U = NOT DETECTED AT ASSOCIATED QUANTITATION LIMIT
   J = ESTIMATED CONCENTRATION

0 20' 40'
GRAPHIC SCALE

BCP-SS-2019C		
Depth (ft)	(0.25' – 1.0')	(1.0' – 2.0')
Date	6/12/2019	6/12/2019
Total PCB	0.091	0.014

BCP-SS-2019B		
Depth (ft)	(0.25' – 1.0')	(1.0' – 2.0')
Date	6/12/2019	6/12/2019
Total PCB	0.0094 J	0.007 J

BCP-SS-2019A		
Depth (ft)	(0.25' – 1.0')	(1.0' – 2.0')
Date	6/12/2019	6/12/2019
Total PCB	0.014 J	0.01 J

SITE #C734138: BMS SYRACUSE
NORTH CAMPUS RESTORATION AREA
EAST SYRACUSE, NY
BUILDING 22 AREA SOIL REMOVAL IRM SUMMARY REPORT

EXTENT OF SOIL REMOVAL AND LOCATIONS OF SOIL SAMPLES

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FIGURE
2

ATTACHMENT 1

Building 22 Area Soil Removal Interim Remedial Measure Work Plan

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Bristol-Myers Squibb Company

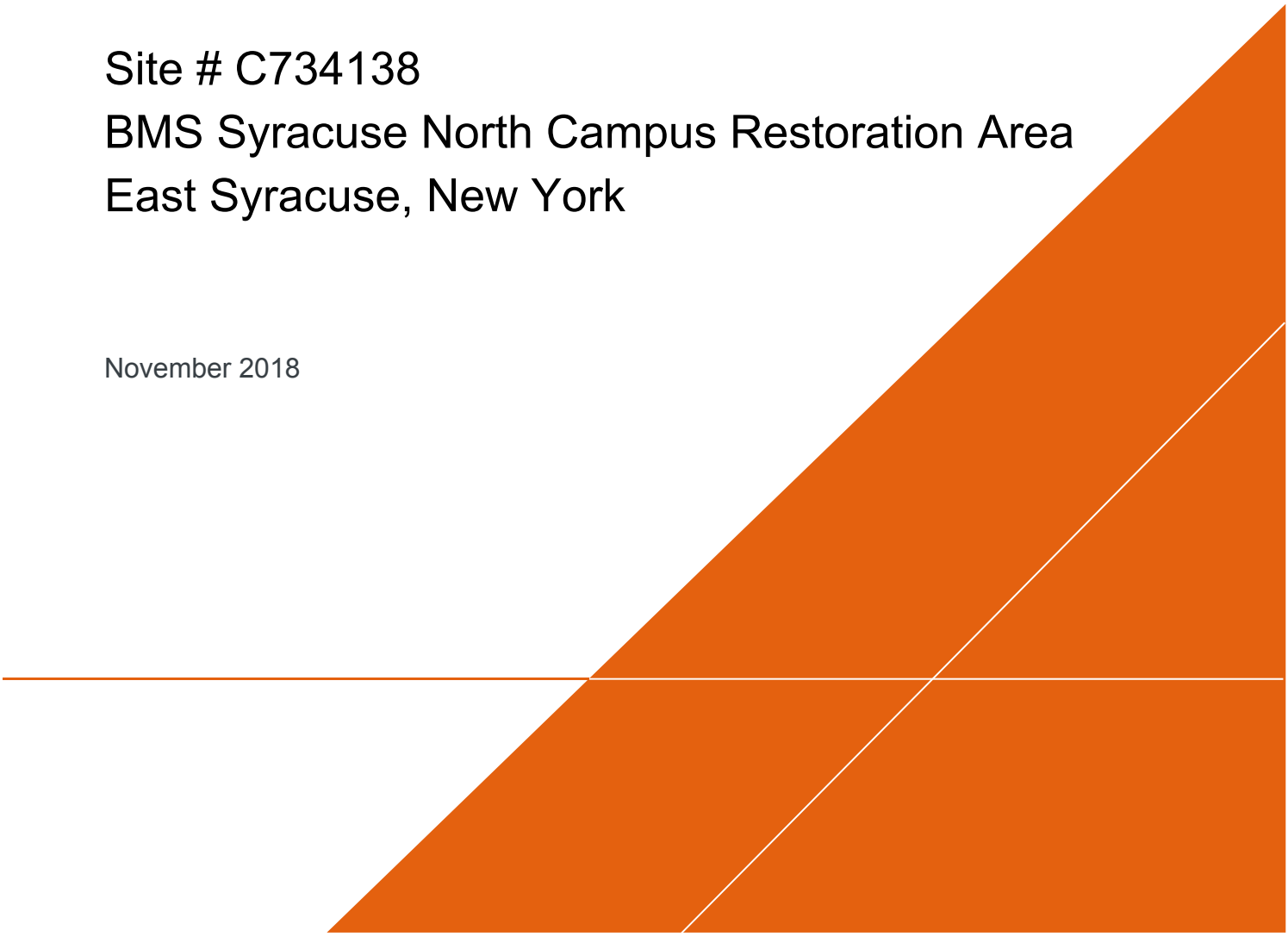
BUILDING 22 AREA SOIL REMOVAL INTERIM REMEDIAL MEASURE (IRM) WORK PLAN

Site # C734138

BMS Syracuse North Campus Restoration Area

East Syracuse, New York

November 2018



11-09-2018

David A. Wright
New York State P.E. License No. 086954

I, *David A. Wright, certify that I am currently a New York State registered Professional Engineer and that this Building 22 Area Soil Removal Interim Remedial Measure (IRM) Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).*

BUILDING 22 AREA SOIL REMOVAL IRM WORK PLAN

Site # C734138
BMS Syracuse North Campus Restoration Area
East Syracuse, New York

Prepared for:
Bristol-Myers Squibb Company
6000 Thompson Road
East Syracuse, New York 13057

Prepared by:
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Our Ref.:
B0087363.0037

Date:
November 2018

CONTENTS

FIGURES

ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis of New York, Inc.
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BDA	Brownfield Development Area
bgs	below ground surface
BMS	Bristol-Myers Squibb Company
CAMP	community air monitoring program
CY	cubic yards
DER	Division of Environmental Remediation
DOT	Department of Transportation
HASP	health and safety plan
HAZWOPER	hazardous waste operations and emergency response
IRM	interim remedial measure
mg/kg	milligrams per kilogram
NYCRR	New York Codes, Rules, and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OBG	O'Brien & Gere Engineers, Inc.
PCB	polychlorinated biphenyls
PID	photoionization detector
PPE	personal protective equipment
RI	Remedial Investigation
RIWP	Remedial Investigation Work Plan
SCO	Soil Cleanup Objective
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
VOC	volatile organic compounds

1 INTRODUCTION

Bristol-Myers Squibb Company (BMS) has completed a remedial investigation (RI) of the North Campus Restoration Area (also referred to as the Brownfield Development Area [BDA]) portion of its Facility located at 6000 Thompson Road in East Syracuse, New York. The BDA is identified by the New York State Department of Environmental Conservation (NYSDEC) as Site No. C734138 and is subject to a Brownfield Cleanup Agreement (BCA; October 2011) between BMS and the NYSDEC. The locations of the BMS Facility and BDA are shown on Figure 1. The RI activities are documented in the *Remedial Investigation Report* (Arcadis, 2018).

In the RI Report (Section 9.3), and as previously discussed with NYSDEC, BMS proposed that a limited volume of surface and shallow soil west of Building 22 impacted with polychlorinated biphenyls (PCB) would be excavated and disposed off-site. This *Building 22 Area Soil Removal Interim Remedial Measure (IRM) Work Plan* (IRM Work Plan) addresses the proposed limited soil removal.

2 IRM BASIS

Sampling was conducted in 2013 and 2014 to evaluate surface and shallow soil quality near then-current and former electrical transformers and broadly across the BDA for PCB and a range of other potential contaminants in accordance with the NYSDEC-approved *Remedial Investigation Work Plan* (RIWP) (O'Brien & Gere Engineers, Inc. [OBG] 2013a) and *C734138 Phase 1A Remedial Investigation Work Plan - Surface Soil Sampling Module* (Arcadis 2014). These analytical results identified PCB concentrations greater than the 1 milligrams per kilogram (mg/kg) NYSDEC commercial use Soil Cleanup Objective (SCO) listed in Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Subpart 375-6.8 (b) at 1 of 41 sampling locations. The one sampling location was BCP-SS-11, in the sloped lawn area west of Building 22 (Figure 2).

Additional surface and shallow soil sampling was conducted to evaluate the extent of PCB around location BCP-SS-11. In accordance with the NYSDEC-approved *Building 22 Area Soil Sampling Plan* (Arcadis 2016), soil samples were collected from 14 locations at four depth intervals: (0-2 inches below ground surface [bgs], 2-12 inches bgs, 12-24 inches bgs, and 24-36 inches bgs). The analytical results for PCB are provided on Figure 2. The maximum concentration was 11 mg/kg in the 0- to 2-inch depth interval at location BCP-SS-11-C, and the second highest concentration was 8.1 mg/kg in the 0- to 2-inch depth interval at adjoining location BCP-SS-11.

NYSDEC Policy CP-51 / Soil Cleanup Guidance (NYSDEC; 2010) identifies (Section I) an "acceptable presumptive remedy for soil" regarding PCB at Brownfield Cleanup Program (BCP) sites as a soil cleanup level of 1 mg/kg in surface soil and 10 mg/kg in subsurface soil, assuming the following conditions are satisfied:

- The site cleanup is under BCP Track 4 (i.e., long-term institutional and engineering controls allowed to achieve protection of public health and the environment, and must include a cover system for exposed residual soil contamination);
- Site use will be restricted residential, commercial or industrial; and

- The SCO protective of ecological resources do not apply.

The above conditions are satisfied for the BDA. As discussed in the RI Report, BMS anticipates use of a cover system (to the extent needed) and will restrict future site use to commercial/industrial via institutional controls.

Therefore, BMS proposes to remove soil with PCB concentrations greater than the CP-51 level of 10 mg/kg for off-site disposal at a commercial landfill permitted to accept the waste. Soil remaining with PCB concentrations greater than the 1 mg/kg commercial SCO will be managed in place beneath at least 12 inches of clean soil (to be installed at a later date).

Soil will be removed to a depth of 3 inches bgs around adjoining locations BCP-SS-11C and BCP-SS-11. PCB concentrations in the 0-2 inch depth interval are slightly greater than 10 mg/kg at BCP-SS-11C and slightly less in the same interval at BCP-SS-11, and less than 1 mg/kg in the 2-12 inch depth interval at both locations. The area of soil removal will extend to the next closest sampling locations to the north, east, and south, and to the Facility fence along the Thompson Road bus stop edge of pavement to the west (Figure 2). This will result in a removal area of approximately 2,950 square feet and a removal volume of approximately 28 cubic yards.

No additional soil sampling is proposed because the existing soil data is in general conformance with the remediation limits soil sampling frequency identified in DER-10, and a soil cover will be installed over the area in the future.

3 IRM ACTIVITIES

In general, the IRM activities will include the following tasks (with details provided in subsequent sub-sections):

- Establish survey control and stake the limits of the soil removal area.
- Identify and mark overhead and buried utilities in the work area.
- Mobilize labor, equipment, and material to the site and secure necessary permits to commence work.
- Install mud matts and sedimentation and erosion controls.
- Prepare for dust suppression (i.e., wetting) and perimeter air monitoring in accordance with the project Community Air Monitoring Plan (CAMP).
- Remove the soil using small powered excavation equipment.
- Loadout removed soil into roll-off containers for off-site disposal.
- Characterize and dispose of the removed soil.
- Restore the work area, decontaminate, and demobilize.

3.1 Soil Removal

The soil removal activities will be completed by Abscope Environmental, Inc. of Canastota, New York. An Arcadis geologist will observe and document (including photographs) field activities, monitor soil for potential evidence of gross impacts (i.e., staining, odors), and conduct CAMP monitoring. Work will be conducted by personnel with hazardous waste operations and emergency response (HAZWOPER) training, using Modified Level D personal protective equipment (PPE), and in accordance with the project health and safety plan (HASP).

Prior to excavation, a Facility Excavation Permit will be obtained from BMS, and buried utilities will be identified through BMS, Digsafely New York, and a geophysical survey. Abscope will also coordinate with National Grid based on the known proximity of a buried natural gas transmission line along the western side of the work area.

The prior sampling locations and proposed excavation limits will be staked in the field by a NYS-licensed surveyor (CT Male, Inc.) and an approximate 10-foot grid of control points will be established within the removal area to demonstrate that removal depths are met (pre- and post-removal elevation survey).

Soil adjacent to trees and within root systems will be removed to the extent practical (note that trees within the work area will be removed to ground level prior to this work scope). Smaller tree roots will be cut and removed to facilitate soil removal, while tree stumps (flush to grade) and large roots will be left in-place, with soil removed as practical.

Soil will be removed in a west to east direction (i.e., downslope). As the excavator scrapes the soil to the 3-inch depth, it will be temporarily staged in a working pile (placed on a minimum 10-mil thick polyethylene liner that will be bermed on the downslope side). A skid steer loader will be used to transfer the removed soil into roll-off containers staged in the adjoining paved parking lot.

3.2 Erosion Controls

Mud matts will be laid down from the paved parking lot to the eastern edge of the work area to minimize rutting of the existing lawn. Erosion controls will be installed to mitigate silts and other fines from being washed downslope during a potential precipitation event, including approximate 10-foot by 12-inch filter socks or coir logs staked in a line downslope of the work area. Yard drains along the western side of Building 22 will also be protected with filter cloth.

3.3 Dust Control and Air Monitoring

Measures will be implemented during the soil removal and handling activities to limit the generation of vapors/odors and dust to within acceptable levels. The magnitude and extent of control measures required will be based on the results of air monitoring. The main objectives of the air monitoring and response actions are to protect the health and safety of onsite workers and the surrounding community and to address potential nuisance conditions. Based on existing analytical data, vapor/odor issues are not expected, and control measures will focus on fugitive dust (i.e., wetting of soil with water spray) and covering of staged soil with a liner.

Perimeter air monitoring will be conducted in accordance with the project CAMP (OBG 2013b), as amended. Monitoring will include one upwind and one downwind station for PM-10 particulates (dust) and

for volatile organic compounds (VOC). The VOC monitoring will be conducted with photoionization detectors (PID) equipped with an 11.7 electron volt lamp. Particulate and VOC levels will be monitored at the designated upwind station and downwind station. Appropriate actions (e.g., work stoppage, water sprays, covering excavations, as outlined in the CAMP) will be taken in response to the air monitoring results, if needed.

3.4 Restoration

The removal area boundaries will be sloped to meet existing lawn grade to the north, east, and south. The soil removal area will not be backfilled as part of the IRM. Grass seed will be planted over the disturbed area. BMS will conduct final grading and restoration later following completion of ongoing Building 22 demolition activities.

3.5 Equipment Decontamination

Equipment and tools that contact the removed soil will be decontaminated prior to demobilization. Decontamination activities will include scraping and water washing and will be conducted within a small decontamination pad constructed with a polyethylene liner. The decontamination pad will be close to the work area to minimize transport of impacted material. Rinse water collected in the decontamination pad will be pumped into a Department of Transportation (DOT)-approved drum.

3.6 Waste Characterization and Disposal

One representative sample of the removed soil deposited in the roll-off containers will be collected for waste characterization purposes, including Toxicity Characteristic Leaching Procedure (TCLP) analysis of VOC, semi-volatile organic compounds, pesticides, herbicides, and metals, and for total PCB, reactivity, ignitability, and corrosivity. Laboratory analysis will be conducted at Eurofins Lancaster Environmental Laboratories of Lancaster, PA, a NYSDOH-approved laboratory. Following receipt of acceptable analytical results, the soil will be transported to a properly permitted commercial landfill facility. It is anticipated that the soil will be non-hazardous and will be transported under a Bill of Lading.

One representative sample of the drummed decontamination rinse water will be collected for analysis of the same parameters as the waste soil. If the analytical results are acceptable, then the water will be discharged to the BMS Waste Water Pre-treatment Plant. Otherwise, the water will be disposed offsite at a properly permitted facility.

4 SCHEDULE AND REPORTING

The IRM activities will not commence until after receipt of written approval of the IRM Work Plan from the NYSDEC and removal of the above ground portions of the trees in the work area. Further, the start date will be dependent on coordination with ongoing Building 22 demolition activities, coordination with National Grid (natural gas line), tree removal, and field/weather conditions. BMS will provide the NYSDEC and NYSDOH with a proposed start date and detailed schedule before proceeding.

Once a start date is established, it is anticipated that preparation activities (survey, utility clearance, BMS excavation permit) will require approximately one week to complete, and that erosion controls installation, soil removal, load-out, and restoration will be conducted over an estimated two days of field work.

After completion of waste disposal, the field activities will be summarized in an IRM Completion Summary Report, including the following components:

- Narrative discussion of the remedial activities conducted.
- Certification statement with the signature and seal of a NYS-licensed professional engineer.
- Figure showing the extent of soil removal, including boundary control point coordinates and surveyed pre-and post-excavation elevations.
- Summary of dust control measures implemented and perimeter air monitoring (CAMP) results.
- Laboratory analytical report for waste characterization.
- Documentation of waste disposal.
- Photographs of the soil removal area during and after the work.
- Conclusions, including modifications of the work plan, if any.

The IRM Completion Summary Report will be submitted within four weeks following completion of waste disposal.

5 REFERENCES

Arcadis. 2014. C734138 Phase 1A Remedial Investigation Work Plan: Surface Soil Sampling Module. September 2014.

Arcadis. 2016. Building 22 Soil Sampling Plan. November 2016.

Arcadis. 2018. Remedial Investigation Report. September 2018.

BMS and NYSDEC. 2011. Brownfield Cleanup Agreement. October 2011.

NYSDEC. 2006. 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives. December 14, 2006.

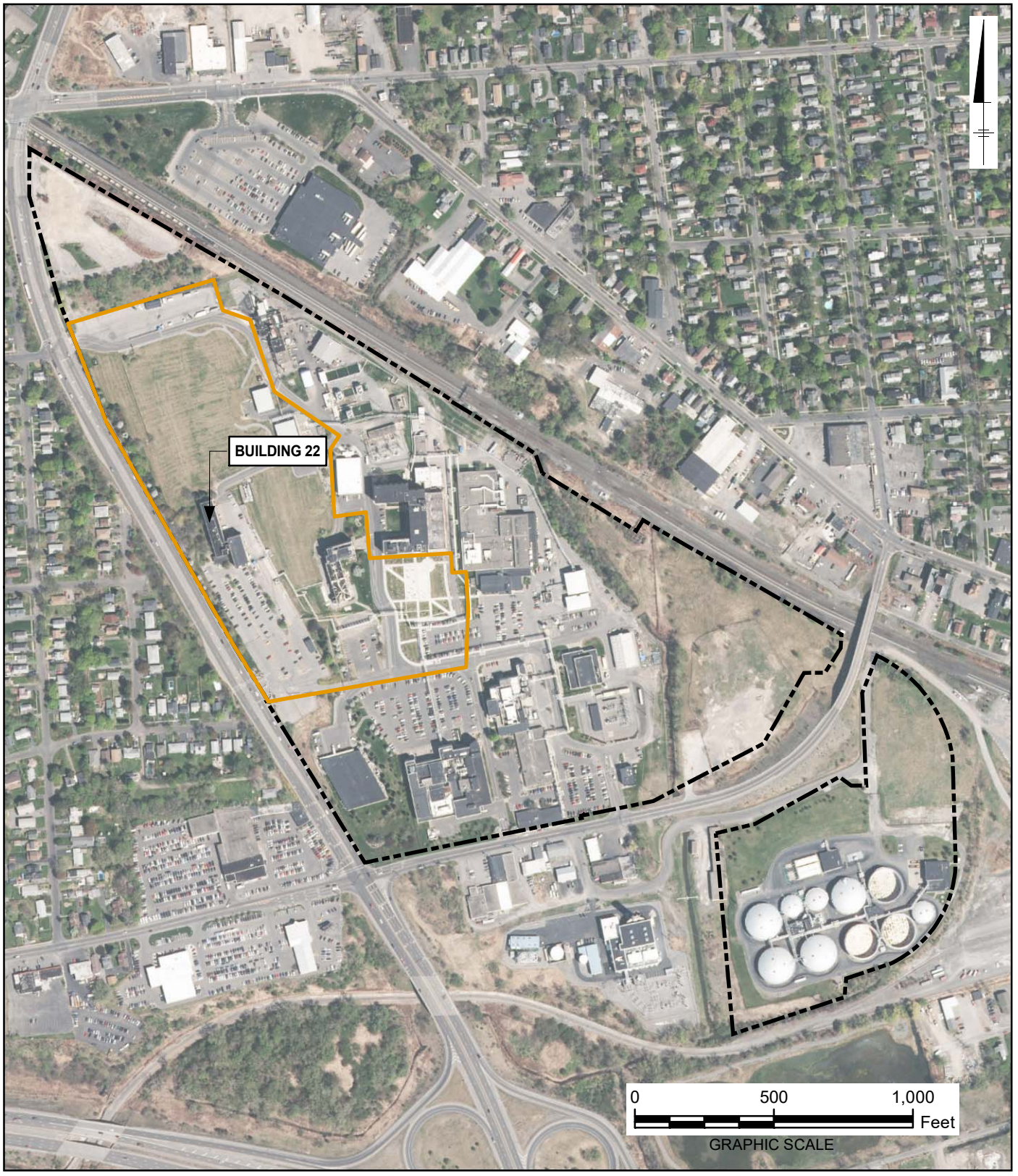
NYSDEC. 2010a. NYSDEC Policy CP-51 / Soil Cleanup Guidance. October 21, 2010.

NYSDEC. 2010b. DER-10 Technical Guidance for Site Investigation and Remediation. May 3. Available online at: http://www.dec.ny.gov/regulations/67386.html

OBG. 2013a. Remedial Investigation Work Plan: BMS Syracuse North Campus Restoration Area Site No. C734138. March 2013.

OBG. 2013b. Remedial Investigation Work Plan: BMS Syracuse North Campus Restoration Area Site No. C734138. Community Air Monitoring Plan. March 2013.

FIGURES



LEGEND:

- APPROXIMATE BROWNFIELD DEVELOPMENT AREA (BDA) BOUNDARY
- APPROXIMATE BRISTOL-MYERS SQUIBB PROPERTY LINE

NOTE:

1. 2015 IMAGERY OBTAINED FROM ESRI IMAGE SERVICE.

SITE #C734138: BMS SYRACUSE
NORTH CAMPUS RESTORATION AREA
EAST SYRACUSE, NY

BLDG 22 AREA SOIL REMOVAL IRM WORK PLAN

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

BUILDING 22
UNDER DEMOLITION

BCP-SS-11-D				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.18 J	0.082 J	0.020 U	0.020 U

BCP-SS-11				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	**8.1**	0.85	**2.7**	0.36

BCP-SS-11-I				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.34 J	0.029	0.019 U	0.020 U

BCP-SS-11-H				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.39	**1.4 [0.68]**	0.060	0.0070 J

BCP-SS-11-G				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	**4.7**	**1.5**	0.30	0.029 J

BCP-SS-11-J				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.14	0.069 J	0.085	0.13 J

BCP-SS-11-A				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.022	0.015 J	0.011 J	0.021 U

BCP-SS-11-M				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.55	0.11	0.037	0.10 J [0.012 J]

BCP-SS-11-E				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.011 J	0.021 J	0.017 J	0.21 J

BCP-SS-11-F				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.012 J	0.012 J	0.020 U	0.0045 J

BCP-SS-11-L				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.11	0.016 J	0.0047 J	0.025 J

BCP-SS-11-B				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.22 J	0.020 U	0.015 J	0.034 J

BCP-SS-11-K				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	0.14 J	0.15	0.58	0.052 J

BCP-SS-11-C				
Depth(in)	(0 – 2)	(2 – 12)	(12 – 24)	(24 – 36)
Date	12/14/2016	12/14/2016	12/14/2016	12/14/2016
Total PCB	**11**	0.87	**1.2 [2.3]**	0.024

BCP-SS-11-J
BP-SS-11-I
BCP-SS-11-H
BCP-SS-11-G
BCP-SS-11-M
BCP-SS-11-D
BCP-SS-11-A
BCP-SS-11
BCP-SS-11
BCP-SS-11-K
BCP-SS-11-B
BCP-SS-11-C
BCP-SS-11-L
BCP-SS-11-E
BCP-SS-11-F

APPROX. 3-INCH REMOVAL,
2,950 SF, 28 CY

THOMPSON ROAD BUS STOP (PAVED)

WATER SPIGOT
WATER SPIGOT
SHRUB
FLAG POLE

LEGEND:

- APPROXIMATE BROWNFIELD AREA BOUNDARY
- APPROXIMATE PROPERTY LINE, BRISTOL-MYERS SQUIBB
- DEMOLISHED BUILDING (AS OF OCTOBER 2018)
- PHASE 1/1A SURFACE SOIL SAMPLE LOCATION BCP-SS-11 (OCTOBER 2014)
- BUILDING 22 AREA SOIL SAMPLE LOCATION (DECEMBER 2016)
- PROPOSED EXCAVATION AREA
- G — NATURAL GAS LINE
- W — WATER LINE-CITY (UNDERGROUND)
- ST — STORM SEWER LINE
- OH — OVERHEAD ELECTRIC LINE
- E — UNDERGROUND ELECTRIC LINE
- T — TELEPHONE/COMMUNICATION LINE
- GUY WIRE
- F — FIRE WATER
- FENCE
- TOPOGRAPHIC LINES
- ELECTRIC RISER (ER)
- LIGHT POLE (LP)
- POST INDICATOR VALVE (PIV)
- CATCH BASIN (CB)
- YARD LIGHT (YL)

NOTES:

1. BASEMAP SOURCE: MAP TITLED "BRISTOL-MYERS SQUIBB PART OF LOT 41 - TOWN OF DEWITT AND PART OF THE VILLAGE OF EAST SYRACUSE ONONDAGA COUNTY NEW YORK", DATED MARCH 25, 2010 PREPARED BY COTTRELL LAND SURVEYORS, P.C.. UPDATED BASED ON SUBSEQUENT AERIAL IMAGERY, SITE VISITS, AND ADDITIONAL SURVEY DATA PREPARED BY CT MALE ASSOCIATES, DATED DEC. 21, 2016.
2. SAMPLE LOCATIONS AND ELEVATIONS SURVEYED BY CT MALE ASSOCIATES, SYRACUSE, NY.
3. ALL RESULTS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg). DUPLICATE RESULTS ARE SHOWN IN BRACKETS.
4. ALL SAMPLES ANALYZED IN ACCORDANCE WITH USEPA SW-846 METHOD 8082A FOR POLYCHLORINATED BIPHENYLS (PCB).
5. ORANGE SHADED AND BLACK BOLDED RESULTS PRESENTED IN DATA BOXES SHOW TOTAL PCB CONCENTRATIONS THAT EXCEED THE 10 PPM SUBSURFACE SOIL CLEANUP LEVEL PRESENTED IN NYSDEC POLICY CP-51. GRAY SHADED AND BOLDED RESULTS PRESENTED IN DATA BOXES SHOW TOTAL PCB CONCENTRATIONS THAT EXCEED THE 1 PPM 6 NYCRR PART 375-6 COMMERCIAL SOIL CLEANUP OBJECTIVE (SCO). GRAY SHADED RESULTS PRESENTED IN DATABOXES SHOW TOTAL PCB CONCENTRATIONS THAT EXCEED THE 0.1 PPM UNRESTRICTED SCO.
6. DATA QUALIFIERS:
   U = NOT DETECTED AT ASSOCIATED QUANTITATION LIMIT
   J = ESTIMATED CONCENTRATION

0 20 40’
GRAPHIC SCALE

SITE #C734138: BMS SYRACUSE
NORTH CAMPUS RESTORATION AREA
EAST SYRACUSE, NY
BLDG 22 SOIL REMOVAL IRM WORK PLAN

PROPOSED EXTENT OF SOIL REMOVAL

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB/LD: L.POSENAUER PM/TM: D.WRIGHT LYR: ON=*;OFF=REF; (FRZ)
C:\Users\lposenauer\OneDrive - ARCADIS\BIM 360 Docs\BRISTOL-MYERS COMPANY\REMEDIAL INVESTIGATION REPORT\2018\B0087363.0034\01-DWG\BMS-RI_FIG 1_PROP EXT SOIL REMOVAL.dwg LAYOUT: 2 SAVED: 11/2/2018 3:10 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: PLTHALF.CTB PLOTTED: 11/7/2018 1:08 PM BY: POSENAUER, LISA
XREFS:
BMS-RI_BASEMAP
BMS-RI_BASEMAP-EXT
BMS-RI_BLDG22

ATTACHMENT 2

CAMP Summary Report

ARCADIS Design & Consultancy for natural and built assets

Ms. Anne Locke
Associate Manager, Environmental Protection
Environmental, Health and Safety Department
Bristol-Myers Squibb
P.O. Box 4755
Syracuse, NY 13221

Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Tel 315 446 9120
Fax 315 449 0017
www.arcadis.com

Subject:
Community Air Monitoring During Building 22 Area Soil Excavation IRM
Bristol-Myers Squibb Syracuse Facility
East Syracuse, New York 13057

ENVIRONMENT

Date:
June 17, 2019

Contact:
William McCune

Phone:
315 671 9172

Email:
William.McCune@arcadis.com

Our ref:
B0087363.0037

Dear Ms. Locke:

The following is a summary of the community air monitoring activities implemented by Arcadis U.S., Inc. (Arcadis) in connection with the soil excavation activities (soil excavation, grading, soil transport, etc.) for the Building 22 Area Soil Excavation Interim Remedial Measures conducted at the Bristol-Myers Squibb (BMS) Syracuse North Campus, East Syracuse, New York, on June 10th and 11th, 2019.

Perimeter air monitoring was conducted in accordance with the project CAMP (OBG 2013b), as amended. Monitoring included one upwind and one downwind station for PM-10 particulates (dust) and for volatile organic compounds (VOCs). The VOC monitoring was conducted with photoionization detectors (PID) equipped with an 11.7 electron volt lamp. Particulate and VOC levels were monitored at the appropriate upwind station and downwind station selected each day based on wind direction and soil handling activities. The contractor was prepared to take appropriate actions (e.g., work stoppage, water sprays, covering excavations, as outlined in the CAMP) in response to the air monitoring results, if needed. However, as documented on the attached summary table (Attachment 1), no exceedances of the established action levels were observed at any time throughout the soil handling activities.

June 10, 2019: Parratt-Wolff Inc. conducted vacuum excavation to daylight the gas line adjacent to the excavation area in two locations from 8:40 AM to 10:50 AM. Abscope Environmental, Inc. (Abscope) began soil excavation activities at 10:55 AM and concluded at 1:30 PM. Arcadis conducted CAMP monitoring for the duration of intrusive activities from approximately 8:30 AM to 1:30 PM. The prevailing wind direction was observed originating from the southeast through the day. Air quality parameters did not exceed CAMP standards at any time during work activities.

June 11, 2019: Soil excavation activities conducted by Abscope continued and were completed on this day. Arcadis conducted CAMP monitoring for the duration of excavation activities from 7:20 AM to 4:20 PM. The prevailing wind direction was observed from the northwest through the workday. At 2:42 PM, the downwind CAMP monitoring station was repositioned approximately 1,000 feet south, downwind of the roll-off containers, to monitor potential dust particles and organic vapors generated during transport of soils from the excavation area to the roll-offs. Air quality parameters did not exceed CAMP standards at any time during work activities.

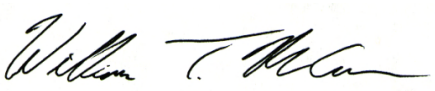
A sketch map (Attachment 2) illustrates the overall work area with the approximate locations of the air monitoring stations in relation to the areas in which soil handling activities were performed (e.g., air knife/vacuum unit utility clearance, the soil excavation, and soil transport to containment roll-offs throughout the first day of excavation activities).

Another two sketch maps (Attachments 3 and 4) illustrate the overall work area with the approximate locations of the air monitoring stations in relation to the areas in which soil handling activities were performed (e.g., the soil excavation, and soil transport to containment roll-offs during the second day of excavation activities), with Attachment 4 illustrating the revised location of the downwind air monitoring station following the placement of additional roll-offs for containment of excavated soil.

Please contact us with any questions or comments pertaining to this project.

Sincerely,

Arcadis of New York, Inc.



William McCune
Principal Geologist

Attachments

1 CAMP Data Logs
2 Site Sketches/Notes for June 10th – 10:55 AM till 1:30 PM
3 Site Sketches/Notes for June 11th - 7:20 AM till 2:42 PM
4 Site Sketches/Notes for June 11th – 2:45 PM till 4:20 PM

ATTACHMENT 1

Table 1A - Particulate
Building 22 Area Soil Removal IRM Dust Particulate Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Upwind DustTrak 6/10/2019	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530141715
Test Start Time	7:30:44 AM
Test Start Date	6/11/2019
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.002
Mass Maximum [mg/m3]	0.044

Time [h:mm]	Mass [mg/m3]	Alarms	Errors	Comments
8:16 AM	0.035			
8:21 AM	0.0395			
8:26 AM	0.04			
8:31 AM	0.0405			
8:36 AM	0.041			
8:41 AM	0.042			
8:46 AM	0.03			
8:51 AM	0.033			
8:56 AM	0.043			
9:01 AM	0.0522			
9:06 AM	0.0516			
9:11 AM	0.051			
9:16 AM	0.0516			
9:21 AM	0.0516			
9:26 AM	0.0504			
9:31 AM	0.018			
9:36 AM	0.0066			
9:41 AM	0.0396			
9:46 AM	0.0468			
9:51 AM	0.0462			
9:56 AM	0.0468			
10:01 AM	0.0462			
10:06 AM	0.0468			
10:11 AM	0.0468			
10:16 AM	0.0468			
10:22 AM	0.0474			
10:27 AM	0.0474			
10:32 AM	0.0474			
10:37 AM	0.0474			
10:42 AM	0.0474			
10:47 AM	0.0474			
10:52 AM	0.0474			
10:57 AM	0.0054			
11:02 AM	0.0042			
11:07 AM	0.0306			
11:12 AM	0.0504			
11:17 AM	0.051			
11:22 AM	0.051			
11:27 AM	0.051			
11:32 AM	0.051			
11:37 AM	0.051			
11:42 AM	0.051			
11:47 AM	0.051			
11:52 AM	0.051			
11:57 AM	0.051			
12:02 PM	0.0516			
12:07 PM	0.0516			
12:12 PM	0.0042			
12:17 PM	0.0042			
12:22 PM	0.0042			
12:28 PM	0.0042			
12:33 PM	0.0042			
12:38 PM	0.0042			
12:43 PM	0.0042			
12:48 PM	0.0042			

Downwind DustTrak 6/10/19	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530183906
Test Start Time	8:06:00 AM
Test Start Date	6/10/2019
Mass Average [mg/m3]	0.057
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.087

Time [h:mm]	Mass [mg/m3]	Alarms	Errors	Comments
8:06 AM	0.07			
8:11 AM	0.079			
8:16 AM	0.08			
8:21 AM	0.081			
8:26 AM	0.082			
8:31 AM	0.084			
8:36 AM	0.06			
8:41 AM	0.066			
8:46 AM	0.086			
8:51 AM	0.087			
8:56 AM	0.086			
9:01 AM	0.085			
9:06 AM	0.086			
9:11 AM	0.086			
9:16 AM	0.084			
9:21 AM	0.03			
9:26 AM	0.011			
9:31 AM	0.066			
9:36 AM	0.078			
9:41 AM	0.077			
9:46 AM	0.078			
9:51 AM	0.077			
9:56 AM	0.078			
10:01 AM	0.078			
10:06 AM	0.078			
10:12 AM	0.079			
10:17 AM	0.079			
10:22 AM	0.079			
10:27 AM	0.079			
10:32 AM	0.079			
10:37 AM	0.079			
10:42 AM	0.079			
10:47 AM	0.009			
10:52 AM	0.007			
10:57 AM	0.051			
11:02 AM	0.084			
11:07 AM	0.085			
11:12 AM	0.085			
11:17 AM	0.085			
11:22 AM	0.085			
11:27 AM	0.085			
11:32 AM	0.085			
11:37 AM	0.085			
11:42 AM	0.085			
11:47 AM	0.085			
11:52 AM	0.086			
11:57 AM	0.086			
12:02 PM	0.007			
12:07 PM	0.007			
12:12 PM	0.007			
12:18 PM	0.007			
12:23 PM	0.007			
12:28 PM	0.007			
12:33 PM	0.007			
12:38 PM	0.007			

Upwind DustTrak 6/11/19	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530141715
Test Start Time	7:30:44 AM
Test Start Date	6/11/2019
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.002
Mass Maximum [mg/m3]	0.044

Time [h:mm]	Mass [mg/m3]	Alarms	Errors	Comments
7:30 AM	0.004			
7:35 AM	0.004			
7:40 AM	0.004			
7:45 AM	0.005			
7:50 AM	0.005			
7:55 AM	0.006			
8:00 AM	0.005			
8:06 AM	0.004			
8:11 AM	0.004			
8:16 AM	0.004			
8:21 AM	0.005			
8:26 AM	0.004			
8:31 AM	0.004			
8:36 AM	0.004			
8:41 AM	0.004			
8:46 AM	0.003			
8:51 AM	0.003			
8:56 AM	0.003			
9:01 AM	0.003			
9:06 AM	0.003			
9:11 AM	0.003			
9:16 AM	0.003			
9:21 AM	0.003			
9:26 AM	0.003			
9:31 AM	0.002			
9:36 AM	0.002			
9:41 AM	0.002			
9:46 AM	0.002			
9:51 AM	0.002			
9:56 AM	0.002			
10:01 AM	0.002			
10:06 AM	0.002			
10:12 AM	0.003			
10:17 AM	0.003			
10:22 AM	0.004			
10:27 AM	0.014			
10:32 AM	0.003			
10:37 AM	0.004			
10:42 AM	0.009			
10:47 AM	0.005			
10:52 AM	0.004			
10:57 AM	0.009			
11:02 AM	0.004			
11:07 AM	0.005			
11:12 AM	0.008			
11:17 AM	0.006			
11:22 AM	0.004			
11:27 AM	0.006			
11:32 AM	0.006			
11:37 AM	0.005			
11:42 AM	0.006			
11:47 AM	0.003			
11:52 AM	0.003			
11:57 AM	0.003			
12:02 PM	0.003			

Downwind DustTrak 6/11/19	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530141715
Test Start Time	7:30:44 AM
Test Start Date	6/11/2019
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.002
Mass Maximum [mg/m3]	0.044

Time [h:mm:ss]	Mass [mg/m3]	Alarms	Errors	Comments
7:22 AM	0.005			
7:27 AM	0.005			
7:32 AM	0.005			
7:37 AM	0.007			
7:43 AM	0.008			
7:48 AM	0.008			
7:53 AM	0.008			
7:58 AM	0.006			
8:03 AM	0.006			
8:08 AM	0.006			
8:13 AM	0.006			
8:18 AM	0.007			
8:23 AM	0.006			
8:28 AM	0.006			
8:33 AM	0.006			
8:38 AM	0.006			
8:43 AM	0.005			
8:48 AM	0.005			
8:53 AM	0.006			
8:58 AM	0.005			
9:03 AM	0.005			
9:08 AM	0.005			
9:13 AM	0.005			
9:18 AM	0.006			
9:23 AM	0.005			
9:28 AM	0.005			
9:33 AM	0.006			
9:38 AM	0.006			
9:43 AM	0.006			
9:49 AM	0.006			
9:54 AM	0.006			
9:59 AM	0.009			
10:04 AM	0.005			
10:09 AM	0.006			
10:14 AM	0.005			
10:19 AM	0.007			
10:24 AM	0.006			
10:29 AM	0.006			
10:34 AM	0.006			
10:39 AM	0.006			
10:44 AM	0.006			
10:49 AM	0.006			
10:54 AM	0.006			
10:59 AM	0.006			
11:04 AM	0.007			
11:09 AM	0.007			
11:14 AM	0.007			
11:19 AM	0.007			
11:24 AM	0.007			
11:29 AM	0.007			
11:34 AM	0.007			
11:39 AM	0.007			
11:44 AM	0.007			
11:49 AM	0.007			
11:55 AM	0.007			

ATTACHMENT 1

Table 1A - Particulate
Building 22 Area Soil Removal IRM Dust Particulate Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Time [h:mm]	Mass [mg/m3]	Alarms	Errors	Comments	Time [h:mm]	Mass [mg/m3]	Alarms	Errors	Comments	Time [h:mm]	Mass [mg/m3]	Alarms	Errors	Comments	Time [h:mm:ss]	Mass [mg/m3]	Alarms	Errors	Comments
12:53 PM	0.005				12:43 PM	0.01				12:07 PM	0.003				12:00 PM	0.007			
12:58 PM	0.0105				12:48 PM	0.021				12:12 PM	0.003				12:05 PM	0.007			
1:03 PM	0.0035				12:53 PM	0.007				12:18 PM	0.003				12:10 PM	0.007			
1:08 PM	0.0035				12:58 PM	0.007				12:23 PM	0.003				12:15 PM	0.007			
1:13 PM	0.0035				1:03 PM	0.007				12:28 PM	0.004				12:20 PM	0.007			
1:18 PM	0.003				1:08 PM	0.006				12:33 PM	0.004				12:25 PM	0.008			
1:23 PM	0.0035				1:13 PM	0.007				12:38 PM	0.004				12:30 PM	0.007			
1:28 PM	0.0035				1:18 PM	0.007				12:43 PM	0.006				12:35 PM	0.007			
1:33 PM	0.004				1:23 PM	0.008				12:48 PM	0.006				12:40 PM	0.007			
1:38 PM	0.0035				1:28 PM	0.007				12:53 PM	0.004				12:45 PM	0.007			
1:43 PM	0.0035				1:33 PM	0.007				12:58 PM	0.015				12:50 PM	0.031			
1:48 PM	0.004				1:38 PM	0.008				1:03 PM	0.007				12:55 PM	0.082			
1:53 PM	0.004				1:43 PM	0.008				1:08 PM	0.009				1:00 PM	0.084			
1:58 PM	0.004				1:48 PM	0.008				1:13 PM	0.007				1:05 PM	0.083			
2:03 PM	0.039				1:53 PM	0.078				1:18 PM	0.005				1:10 PM	0.084			
2:08 PM	0.04				1:58 PM	0.086				1:23 PM	0.008				1:15 PM	0.084			
2:13 PM	0.0425				2:03 PM	0.085				1:28 PM	0.006				1:20 PM	0.084			
2:18 PM	0.043				2:08 PM	0.086				1:33 PM	0.004				1:25 PM	0.084			
2:23 PM	0.0425				2:13 PM	0.085				1:38 PM	0.003				1:30 PM	0.084			
2:28 PM	0.0415				2:18 PM	0.083				1:43 PM	0.003				1:35 PM	0.084			
2:34 PM	0.0425				2:24 PM	0.085				1:48 PM	0.005				1:40 PM	0.084			
-	-				2:29 PM	0.085				1:53 PM	0.009				1:45 PM	0.084			
-	-				2:34 PM	0.086				1:58 PM	0.005				1:50 PM	0.084			
-	-				2:39 PM	0.086				2:03 PM	0.005				1:55 PM	0.084			
-	-				-	-				2:08 PM	0.004				2:01 PM	0.084			
-	-				-	-				2:13 PM	0.005				2:06 PM	0.084			
-	-				-	-				2:18 PM	0.017				2:11 PM	0.082			
-	-				-	-				2:24 PM	0.044				2:16 PM	0.083			
-	-				-	-				2:29 PM	0.014				2:21 PM	0.083			
-	-				-	-				2:34 PM	0.014				2:26 PM	0.083			
-	-				-	-				2:39 PM	0.02				2:31 PM	0.083			
-	-				-	-				2:44 PM	0.004				2:36 PM	0.082			
-	-				-	-				2:49 PM	0.009				2:41 PM	0.082			
-	-				-	-				2:54 PM	0.008				2:46 PM	0.083			
-	-				-	-				2:59 PM	0.004				2:51 PM	0.083			
-	-				-	-				3:04 PM	0.012				2:56 PM	0.082			
-	-				-	-				3:09 PM	0.004				3:01 PM	0.082			
-	-				-	-				3:14 PM	0.005				3:06 PM	0.082			
-	-				-	-				3:19 PM	0.005				3:11 PM	0.082			
-	-				-	-				3:24 PM	0.011				3:16 PM	0.082			
-	-				-	-				3:29 PM	0.018				3:21 PM	0.082			
-	-				-	-				3:34 PM	0.007				3:26 PM	0.083			
-	-				-	-				3:39 PM	0.016				3:31 PM	0.083			
-	-				-	-				3:44 PM	0.015				3:36 PM	0.082			
-	-				-	-				3:49 PM	0.012				3:41 PM	0.081			
-	-				-	-				3:54 PM	0.017				3:46 PM	0.083			
-	-				-	-				3:59 PM	0.01				3:51 PM	0.083			
-	-				-	-				4:04 PM	0.005				3:56 PM	0.083			
-	-				-	-				4:09 PM	0.005				4:01 PM	0.083			
-	-				-	-				4:14 PM	0.004				4:07 PM	0.083			
-	-				-	-				4:19 PM	0.004				4:12 PM	0.083			

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Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Upwind PID 6/10/2019	
Instrument Name	MiniRAE 3000
Model Number	PGM-7320
Serial Number	592-908547
Test Start Time	8:20 AM
Test Start Date	6/10/2019
Mass Average [mg/m3]	0
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0

Date/Time	PID(ppm)	Alarms	Errors	Comments
6/10/2019 8:20	0			
6/10/2019 8:21	0			
6/10/2019 8:22	0			
6/10/2019 8:23	0			
6/10/2019 8:24	0			
6/10/2019 8:25	0			
6/10/2019 8:26	0			
6/10/2019 8:27	0			
6/10/2019 8:28	0			
6/10/2019 8:29	0			
6/10/2019 8:30	0			
6/10/2019 8:31	0			
6/10/2019 8:32	0			
6/10/2019 8:33	0			
6/10/2019 8:34	0			
6/10/2019 8:35	0			
6/10/2019 8:36	0			
6/10/2019 8:37	0			
6/10/2019 8:38	0			
6/10/2019 8:39	0			
6/10/2019 8:40	0			
6/10/2019 8:41	0			
6/10/2019 8:42	0			
6/10/2019 8:43	0			
6/10/2019 8:44	0			
6/10/2019 8:45	0			
6/10/2019 8:46	0			
6/10/2019 8:47	0			
6/10/2019 8:48	0			
6/10/2019 8:49	0			
6/10/2019 8:50	0			
6/10/2019 8:51	0			
6/10/2019 8:52	0			
6/10/2019 8:53	0			
6/10/2019 8:54	0			
6/10/2019 8:55	0			
6/10/2019 8:56	0			
6/10/2019 8:57	0			
6/10/2019 8:58	0			
6/10/2019 8:59	0			
6/10/2019 9:00	0			
6/10/2019 9:01	0			
6/10/2019 9:02	0			
6/10/2019 9:03	0			
6/10/2019 9:04	0			
6/10/2019 9:05	0			
6/10/2019 9:06	0			
6/10/2019 9:07	0			
6/10/2019 9:08	0			

Downwind PID 6/10/2019	
Instrument Name	MiniRAE 3000
Model Number	PGM-7320
Serial Number	592-000174
Test Start Time	8:17 AM
Test Start Date	6/10/2019
Mass Average [mg/m3]	0
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.1

Date/Time	PID(ppm)	Alarms	Errors	Comments
6/10/2019 8:17	0			
6/10/2019 8:18	0			
6/10/2019 8:19	0			
6/10/2019 8:20	0			
6/10/2019 8:21	0			
6/10/2019 8:22	0			
6/10/2019 8:23	0			
6/10/2019 8:24	0			
6/10/2019 8:25	0			
6/10/2019 8:26	0			
6/10/2019 8:27	0			
6/10/2019 8:28	0			
6/10/2019 8:29	0			
6/10/2019 8:30	0			
6/10/2019 8:31	0			
6/10/2019 8:32	0			
6/10/2019 8:33	0			
6/10/2019 8:34	0			
6/10/2019 8:35	0			
6/10/2019 8:36	0			
6/10/2019 8:37	0			
6/10/2019 8:38	0			
6/10/2019 8:39	0			
6/10/2019 8:40	0			
6/10/2019 8:41	0			
6/10/2019 8:42	0			
6/10/2019 8:43	0			
6/10/2019 8:44	0			
6/10/2019 8:45	0			
6/10/2019 8:46	0			
6/10/2019 8:47	0			
6/10/2019 8:48	0			
6/10/2019 8:49	0			
6/10/2019 8:50	0			
6/10/2019 8:51	0			
6/10/2019 8:52	0			
6/10/2019 8:53	0			
6/10/2019 8:54	0			
6/10/2019 8:55	0			
6/10/2019 8:56	0			
6/10/2019 8:57	0			
6/10/2019 8:58	0			
6/10/2019 8:59	0			
6/10/2019 9:00	0			
6/10/2019 9:01	0			
6/10/2019 9:02	0			
6/10/2019 9:03	0			
6/10/2019 9:04	0			
6/10/2019 9:05	0			

Upwind PID 6/11/2019	
Instrument Name	MiniRAE 3000
Model Number	PGM-7320
Serial Number	592-908547
Test Start Time	7:33 AM
Test Start Date	6/11/2019
Mass Average [mg/m3]	0
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.3

Date/Time	PID(ppm)	Alarms	Errors	Comments
6/11/2019 7:34	0			
6/11/2019 7:35	0			
6/11/2019 7:36	0			
6/11/2019 7:37	0			
6/11/2019 7:38	0			
6/11/2019 7:39	0			
6/11/2019 7:40	0			
6/11/2019 7:41	0			
6/11/2019 7:42	0			
6/11/2019 7:43	0			
6/11/2019 7:44	0			
6/11/2019 7:45	0			
6/11/2019 7:46	0			
6/11/2019 7:47	0			
6/11/2019 7:48	0			
6/11/2019 7:49	0			
6/11/2019 7:50	0			
6/11/2019 7:51	0			
6/11/2019 7:52	0			
6/11/2019 7:53	0			
6/11/2019 7:54	0			
6/11/2019 7:55	0			
6/11/2019 7:56	0			
6/11/2019 7:57	0			
6/11/2019 7:58	0			
6/11/2019 7:59	0			
6/11/2019 8:00	0			
6/11/2019 8:01	0			
6/11/2019 8:02	0			
6/11/2019 8:03	0			
6/11/2019 8:04	0			
6/11/2019 8:05	0			
6/11/2019 8:06	0			
6/11/2019 8:07	0			
6/11/2019 8:08	0			
6/11/2019 8:09	0			
6/11/2019 8:10	0			
6/11/2019 8:11	0			
6/11/2019 8:12	0			
6/11/2019 8:13	0			
6/11/2019 8:14	0			
6/11/2019 8:15	0			
6/11/2019 8:16	0			
6/11/2019 8:17	0			
6/11/2019 8:18	0			
6/11/2019 8:19	0			
6/11/2019 8:20	0			
6/11/2019 8:21	0			
6/11/2019 8:22	0			

Downwind PID 6/11/2019	
Instrument Name	MiniRAE 3000
Model Number	PGM-7320
Serial Number	592-000174
Test Start Time	7:32 AM
Test Start Date	6/11/2019
Mass Average [mg/m3]	0
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0

Date/Time	PID(ppm)	Alarms	Errors	Comments
6/11/2019 7:33	0			
6/11/2019 7:34	0			
6/11/2019 7:35	0			
6/11/2019 7:36	0			
6/11/2019 7:37	0			
6/11/2019 7:38	0			
6/11/2019 7:39	0			
6/11/2019 7:40	0			
6/11/2019 7:41	0			
6/11/2019 7:42	0			
6/11/2019 7:43	0			
6/11/2019 7:44	0			
6/11/2019 7:45	0			
6/11/2019 7:46	0			
6/11/2019 7:47	0			
6/11/2019 7:48	0			
6/11/2019 7:49	0			
6/11/2019 7:50	0			
6/11/2019 7:51	0			
6/11/2019 7:52	0			
6/11/2019 7:53	0			
6/11/2019 7:54	0			
6/11/2019 7:55	0			
6/11/2019 7:56	0			
6/11/2019 7:57	0			
6/11/2019 7:58	0			
6/11/2019 7:59	0			
6/11/2019 8:00	0			
6/11/2019 8:01	0			
6/11/2019 8:02	0			
6/11/2019 8:03	0			
6/11/2019 8:04	0			
6/11/2019 8:05	0			
6/11/2019 8:06	0			
6/11/2019 8:07	0			
6/11/2019 8:08	0			
6/11/2019 8:09	0			
6/11/2019 8:10	0			
6/11/2019 8:11	0			
6/11/2019 8:12	0			
6/11/2019 8:13	0			
6/11/2019 8:14	0			
6/11/2019 8:15	0			
6/11/2019 8:16	0			
6/11/2019 8:17	0			
6/11/2019 8:18	0			
6/11/2019 8:19	0			
6/11/2019 8:20	0			
6/11/2019 8:21	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
6/10/2019 9:09	0				6/10/2019 9:06	0				6/11/2019 8:23	0				6/11/2019 8:22	0			
6/10/2019 9:10	0				6/10/2019 9:07	0				6/11/2019 8:24	0				6/11/2019 8:23	0			
6/10/2019 9:11	0				6/10/2019 9:08	0				6/11/2019 8:25	0				6/11/2019 8:24	0			
6/10/2019 9:12	0				6/10/2019 9:09	0				6/11/2019 8:26	0				6/11/2019 8:25	0			
6/10/2019 9:13	0				6/10/2019 9:10	0				6/11/2019 8:27	0				6/11/2019 8:26	0			
6/10/2019 9:14	0				6/10/2019 9:11	0				6/11/2019 8:28	0				6/11/2019 8:27	0			
6/10/2019 9:15	0				6/10/2019 9:12	0				6/11/2019 8:29	0				6/11/2019 8:28	0			
6/10/2019 9:16	0				6/10/2019 9:13	0				6/11/2019 8:30	0				6/11/2019 8:29	0			
6/10/2019 9:17	0				6/10/2019 9:14	0				6/11/2019 8:31	0				6/11/2019 8:30	0			
6/10/2019 9:18	0				6/10/2019 9:15	0				6/11/2019 8:32	0				6/11/2019 8:31	0			
6/10/2019 9:19	0				6/10/2019 9:16	0				6/11/2019 8:33	0				6/11/2019 8:32	0			
6/10/2019 9:20	0				6/10/2019 9:17	0				6/11/2019 8:34	0				6/11/2019 8:33	0			
6/10/2019 9:21	0				6/10/2019 9:18	0				6/11/2019 8:35	0				6/11/2019 8:34	0			
6/10/2019 9:22	0				6/10/2019 9:19	0				6/11/2019 8:36	0				6/11/2019 8:35	0			
6/10/2019 9:23	0				6/10/2019 9:20	0				6/11/2019 8:37	0				6/11/2019 8:36	0			
6/10/2019 9:24	0				6/10/2019 9:21	0				6/11/2019 8:38	0				6/11/2019 8:37	0			
6/10/2019 9:25	0				6/10/2019 9:22	0				6/11/2019 8:39	0				6/11/2019 8:38	0			
6/10/2019 9:26	0				6/10/2019 9:23	0				6/11/2019 8:40	0				6/11/2019 8:39	0			
6/10/2019 9:27	0				6/10/2019 9:24	0				6/11/2019 8:41	0				6/11/2019 8:40	0			
6/10/2019 9:28	0				6/10/2019 9:25	0				6/11/2019 8:42	0				6/11/2019 8:41	0			
6/10/2019 9:29	0				6/10/2019 9:26	0				6/11/2019 8:43	0				6/11/2019 8:42	0			
6/10/2019 9:30	0				6/10/2019 9:27	0				6/11/2019 8:44	0				6/11/2019 8:43	0			
6/10/2019 9:31	0				6/10/2019 9:28	0				6/11/2019 8:45	0				6/11/2019 8:44	0			
6/10/2019 9:32	0				6/10/2019 9:29	0				6/11/2019 8:46	0				6/11/2019 8:45	0			
6/10/2019 9:33	0				6/10/2019 9:30	0				6/11/2019 8:47	0				6/11/2019 8:46	0			
6/10/2019 9:34	0				6/10/2019 9:31	0				6/11/2019 8:48	0				6/11/2019 8:47	0			
6/10/2019 9:35	0				6/10/2019 9:32	0				6/11/2019 8:49	0				6/11/2019 8:48	0			
6/10/2019 9:36	0				6/10/2019 9:33	0				6/11/2019 8:50	0				6/11/2019 8:49	0			
6/10/2019 9:37	0				6/10/2019 9:34	0				6/11/2019 8:51	0				6/11/2019 8:50	0			
6/10/2019 9:38	0				6/10/2019 9:35	0				6/11/2019 8:52	0				6/11/2019 8:51	0			
6/10/2019 9:39	0				6/10/2019 9:36	0				6/11/2019 8:53	0				6/11/2019 8:52	0			
6/10/2019 9:40	0				6/10/2019 9:37	0				6/11/2019 8:54	0				6/11/2019 8:53	0			
6/10/2019 9:41	0				6/10/2019 9:38	0				6/11/2019 8:55	0				6/11/2019 8:54	0			
6/10/2019 9:42	0				6/10/2019 9:39	0				6/11/2019 8:56	0				6/11/2019 8:55	0			
6/10/2019 9:43	0				6/10/2019 9:40	0				6/11/2019 8:57	0				6/11/2019 8:56	0			
6/10/2019 9:44	0				6/10/2019 9:41	0				6/11/2019 8:58	0				6/11/2019 8:57	0			
6/10/2019 9:45	0				6/10/2019 9:42	0				6/11/2019 8:59	0				6/11/2019 8:58	0			
6/10/2019 9:46	0				6/10/2019 9:43	0				6/11/2019 9:00	0				6/11/2019 8:59	0			
6/10/2019 9:47	0				6/10/2019 9:44	0				6/11/2019 9:01	0				6/11/2019 9:00	0			
6/10/2019 9:48	0				6/10/2019 9:45	0				6/11/2019 9:02	0				6/11/2019 9:01	0			
6/10/2019 9:49	0				6/10/2019 9:46	0				6/11/2019 9:03	0				6/11/2019 9:02	0			
6/10/2019 9:50	0				6/10/2019 9:47	0				6/11/2019 9:04	0				6/11/2019 9:03	0			
6/10/2019 9:51	0				6/10/2019 9:48	0				6/11/2019 9:05	0				6/11/2019 9:04	0			
6/10/2019 9:52	0				6/10/2019 9:49	0				6/11/2019 9:06	0				6/11/2019 9:05	0			
6/10/2019 9:53	0				6/10/2019 9:50	0				6/11/2019 9:07	0				6/11/2019 9:06	0			
6/10/2019 9:54	0				6/10/2019 9:51	0				6/11/2019 9:08	0				6/11/2019 9:07	0			
6/10/2019 9:55	0				6/10/2019 9:52	0				6/11/2019 9:09	0				6/11/2019 9:08	0			
6/10/2019 9:56	0				6/10/2019 9:53	0				6/11/2019 9:10	0				6/11/2019 9:09	0			
6/10/2019 9:57	0				6/10/2019 9:54	0				6/11/2019 9:11	0				6/11/2019 9:10	0			
6/10/2019 9:58	0				6/10/2019 9:55	0				6/11/2019 9:12	0				6/11/2019 9:11	0			
6/10/2019 9:59	0				6/10/2019 9:56	0				6/11/2019 9:13	0				6/11/2019 9:12	0			
6/10/2019 10:00	0				6/10/2019 9:57	0				6/11/2019 9:14	0				6/11/2019 9:13	0			
6/10/2019 10:01	0				6/10/2019 9:58	0				6/11/2019 9:15	0				6/11/2019 9:14	0			
6/10/2019 10:02	0				6/10/2019 9:59	0				6/11/2019 9:16	0				6/11/2019 9:15	0			
6/10/2019 10:03	0				6/10/2019 10:00	0				6/11/2019 9:17	0				6/11/2019 9:16	0			
6/10/2019 10:04	0				6/10/2019 10:01	0				6/11/2019 9:18	0				6/11/2019 9:17	0			
6/10/2019 10:05	0				6/10/2019 10:02	0				6/11/2019 9:19	0				6/11/2019 9:18	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
6/10/2019 10:06	0				6/10/2019 10:03	0				6/11/2019 9:20	0				6/11/2019 9:19	0			
6/10/2019 10:07	0				6/10/2019 10:04	0				6/11/2019 9:21	0				6/11/2019 9:20	0			
6/10/2019 10:08	0				6/10/2019 10:05	0				6/11/2019 9:22	0				6/11/2019 9:21	0			
6/10/2019 10:09	0				6/10/2019 10:06	0				6/11/2019 9:23	0				6/11/2019 9:22	0			
6/10/2019 10:10	0				6/10/2019 10:07	0				6/11/2019 9:24	0				6/11/2019 9:23	0			
6/10/2019 10:11	0				6/10/2019 10:08	0				6/11/2019 9:25	0				6/11/2019 9:24	0			
6/10/2019 10:12	0				6/10/2019 10:09	0				6/11/2019 9:26	0				6/11/2019 9:25	0			
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6/10/2019 11:01	0				6/10/2019 10:58	0				6/11/2019 10:15	0				6/11/2019 10:14	0			
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6/10/2019 11:04	0				6/10/2019 11:01	0				6/11/2019 10:18	0				6/11/2019 10:17	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
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6/10/2019 11:06	0				6/10/2019 11:03	0				6/11/2019 10:20	0				6/11/2019 10:19	0			
6/10/2019 11:07	0				6/10/2019 11:04	0				6/11/2019 10:21	0				6/11/2019 10:20	0			
6/10/2019 11:08	0				6/10/2019 11:05	0				6/11/2019 10:22	0				6/11/2019 10:21	0			
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6/10/2019 12:03	0				6/10/2019 12:00	0				6/11/2019 11:17	0				6/11/2019 11:16	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
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6/10/2019 12:05	0				6/10/2019 12:02	0				6/11/2019 11:19	0				6/11/2019 11:18	0			
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6/10/2019 12:24	0				6/10/2019 12:21	0				6/11/2019 11:38	0				6/11/2019 11:37	0			
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6/10/2019 12:36	0				6/10/2019 12:33	0				6/11/2019 11:50	0				6/11/2019 11:49	0			
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6/10/2019 12:51	0				6/10/2019 12:48	0				6/11/2019 12:05	0				6/11/2019 12:04	0			
6/10/2019 12:52	0				6/10/2019 12:49	0				6/11/2019 12:06	0				6/11/2019 12:05	0			
6/10/2019 12:53	0				6/10/2019 12:50	0				6/11/2019 12:07	0				6/11/2019 12:06	0			
6/10/2019 12:54	0				6/10/2019 12:51	0				6/11/2019 12:08	0				6/11/2019 12:07	0			
6/10/2019 12:55	0				6/10/2019 12:52	0				6/11/2019 12:09	0				6/11/2019 12:08	0			
6/10/2019 12:56	0				6/10/2019 12:53	0				6/11/2019 12:10	0				6/11/2019 12:09	0			
6/10/2019 12:57	0				6/10/2019 12:54	0				6/11/2019 12:11	0				6/11/2019 12:10	0			
6/10/2019 12:58	0				6/10/2019 12:55	0				6/11/2019 12:12	0				6/11/2019 12:11	0			
6/10/2019 12:59	0				6/10/2019 12:56	0				6/11/2019 12:13	0				6/11/2019 12:12	0			
6/10/2019 13:00	0				6/10/2019 12:57	0				6/11/2019 12:14	0				6/11/2019 12:13	0			
6/10/2019 13:01	0				6/10/2019 12:58	0				6/11/2019 12:15	0				6/11/2019 12:14	0			
6/10/2019 13:02	0				6/10/2019 12:59	0				6/11/2019 12:16	0				6/11/2019 12:15	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
6/10/2019 13:03	0				6/10/2019 13:00	0				6/11/2019 12:17	0				6/11/2019 12:16	0			
6/10/2019 13:04	0				6/10/2019 13:01	0				6/11/2019 12:18	0				6/11/2019 12:17	0			
6/10/2019 13:05	0				6/10/2019 13:02	0				6/11/2019 12:19	0				6/11/2019 12:18	0			
6/10/2019 13:06	0				6/10/2019 13:03	0				6/11/2019 12:20	0				6/11/2019 12:19	0			
6/10/2019 13:07	0				6/10/2019 13:04	0				6/11/2019 12:21	0				6/11/2019 12:20	0			
6/10/2019 13:08	0				6/10/2019 13:05	0				6/11/2019 12:22	0				6/11/2019 12:21	0			
6/10/2019 13:09	0				6/10/2019 13:06	0				6/11/2019 12:23	0				6/11/2019 12:22	0			
6/10/2019 13:10	0				6/10/2019 13:07	0				6/11/2019 12:24	0				6/11/2019 12:23	0			
6/10/2019 13:11	0				6/10/2019 13:08	0				6/11/2019 12:25	0				6/11/2019 12:24	0			
6/10/2019 13:12	0				6/10/2019 13:09	0				6/11/2019 12:26	0				6/11/2019 12:25	0			
6/10/2019 13:13	0				6/10/2019 13:10	0				6/11/2019 12:27	0				6/11/2019 12:26	0			
6/10/2019 13:14	0				6/10/2019 13:11	0				6/11/2019 12:28	0				6/11/2019 12:27	0			
6/10/2019 13:15	0				6/10/2019 13:12	0				6/11/2019 12:29	0				6/11/2019 12:28	0			
6/10/2019 13:16	0				6/10/2019 13:13	0				6/11/2019 12:30	0				6/11/2019 12:29	0			
6/10/2019 13:17	0				6/10/2019 13:14	0				6/11/2019 12:31	0				6/11/2019 12:30	0			
6/10/2019 13:18	0				6/10/2019 13:15	0				6/11/2019 12:32	0				6/11/2019 12:31	0			
6/10/2019 13:19	0				6/10/2019 13:16	0				6/11/2019 12:33	0				6/11/2019 12:32	0			
6/10/2019 13:20	0				6/10/2019 13:17	0				6/11/2019 12:34	0				6/11/2019 12:33	0			
6/10/2019 13:21	0				6/10/2019 13:18	0				6/11/2019 12:35	0				6/11/2019 12:34	0			
6/10/2019 13:22	0				6/10/2019 13:19	0				6/11/2019 12:36	0				6/11/2019 12:35	0			
6/10/2019 13:23	0				6/10/2019 13:20	0				6/11/2019 12:37	0				6/11/2019 12:36	0			
6/10/2019 13:24	0				6/10/2019 13:21	0				6/11/2019 12:38	0				6/11/2019 12:37	0			
6/10/2019 13:25	0				6/10/2019 13:22	0				6/11/2019 12:39	0				6/11/2019 12:38	0			
6/10/2019 13:26	0				6/10/2019 13:23	0				6/11/2019 12:40	0				6/11/2019 12:39	0			
6/10/2019 13:27	0				6/10/2019 13:24	0				6/11/2019 12:41	0				6/11/2019 12:40	0			
6/10/2019 13:28	0				6/10/2019 13:25	0				6/11/2019 12:42	0				6/11/2019 12:41	0			
6/10/2019 13:29	0				6/10/2019 13:26	0				6/11/2019 12:43	0				6/11/2019 12:42	0			
6/10/2019 13:30	0				6/10/2019 13:27	0				6/11/2019 12:44	0				6/11/2019 12:43	0			
6/10/2019 13:31	0				6/10/2019 13:28	0				6/11/2019 12:45	0				6/11/2019 12:44	0			
6/10/2019 13:32	0				6/10/2019 13:29	0				6/11/2019 12:46	0				6/11/2019 12:45	0			
6/10/2019 13:33	0				6/10/2019 13:30	0				6/11/2019 12:47	0				6/11/2019 12:46	0			
6/10/2019 13:34	0				6/10/2019 13:31	0				6/11/2019 12:48	0				6/11/2019 12:47	0			
6/10/2019 13:35	0				6/10/2019 13:32	0				6/11/2019 12:49	0				6/11/2019 12:48	0			
6/10/2019 13:36	0				6/10/2019 13:33	0				6/11/2019 12:50	0				6/11/2019 12:49	0			
6/10/2019 13:37	0				6/10/2019 13:34	0				6/11/2019 12:51	0				6/11/2019 12:50	0			
6/10/2019 13:38	0				6/10/2019 13:35	0				6/11/2019 12:52	0				6/11/2019 12:51	0			
6/10/2019 13:39	0				6/10/2019 13:36	0				6/11/2019 12:53	0				6/11/2019 12:52	0			
6/10/2019 13:40	0				6/10/2019 13:37	0				6/11/2019 12:54	0				6/11/2019 12:53	0			
6/10/2019 13:41	0				6/10/2019 13:38	0				6/11/2019 12:55	0				6/11/2019 12:54	0			
6/10/2019 13:42	0				6/10/2019 13:39	0				6/11/2019 12:56	0				6/11/2019 12:55	0			
6/10/2019 13:43	0				6/10/2019 13:40	0				6/11/2019 12:57	0				6/11/2019 12:56	0			
6/10/2019 13:44	0				6/10/2019 13:41	0				6/11/2019 12:58	0				6/11/2019 12:57	0			
6/10/2019 13:45	0				6/10/2019 13:42	0				6/11/2019 12:59	0				6/11/2019 12:58	0			
6/10/2019 13:46	0				6/10/2019 13:43	0				6/11/2019 13:00	0				6/11/2019 12:59	0			
	-				6/10/2019 13:44	0				6/11/2019 13:01	0				6/11/2019 13:00	0			
	-				6/10/2019 13:45	0				6/11/2019 13:02	0				6/11/2019 13:01	0			
	-				6/10/2019 13:46	0				6/11/2019 13:03	0				6/11/2019 13:02	0			
	-				6/10/2019 13:47	0				6/11/2019 13:04	0				6/11/2019 13:03	0			
	-				6/10/2019 13:48	0.1				6/11/2019 13:05	0				6/11/2019 13:04	0			
	-				6/10/2019 13:49	0				6/11/2019 13:06	0				6/11/2019 13:05	0			
	-					-				6/11/2019 13:07	0				6/11/2019 13:06	0			
	-					-				6/11/2019 13:08	0				6/11/2019 13:07	0			
	-					-				6/11/2019 13:09	0				6/11/2019 13:08	0			
	-					-				6/11/2019 13:10	0				6/11/2019 13:09	0			
	-					-				6/11/2019 13:11	0				6/11/2019 13:10	0			
	-					-				6/11/2019 13:12	0				6/11/2019 13:11	0			
	-					-				6/11/2019 13:13	0				6/11/2019 13:12	0			
	-					-				6/11/2019 13:14	0				6/11/2019 13:13	0			
	-					-				6/11/2019 13:15	0				6/11/2019 13:14	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
	-					-				6/11/2019 13:16	0				6/11/2019 13:15	0			
	-					-				6/11/2019 13:17	0				6/11/2019 13:16	0			
	-					-				6/11/2019 13:18	0				6/11/2019 13:17	0			
	-					-				6/11/2019 13:19	0				6/11/2019 13:18	0			
	-					-				6/11/2019 13:20	0				6/11/2019 13:19	0			
	-					-				6/11/2019 13:21	0				6/11/2019 13:20	0			
	-					-				6/11/2019 13:22	0				6/11/2019 13:21	0			
	-					-				6/11/2019 13:23	0				6/11/2019 13:22	0			
	-					-				6/11/2019 13:24	0				6/11/2019 13:23	0			
	-					-				6/11/2019 13:25	0				6/11/2019 13:24	0			
	-					-				6/11/2019 13:26	0				6/11/2019 13:25	0			
	-					-				6/11/2019 13:27	0				6/11/2019 13:26	0			
	-					-				6/11/2019 13:28	0				6/11/2019 13:27	0			
	-					-				6/11/2019 13:29	0				6/11/2019 13:28	0			
	-					-				6/11/2019 13:30	0				6/11/2019 13:29	0			
	-					-				6/11/2019 13:31	0				6/11/2019 13:30	0			
	-					-				6/11/2019 13:32	0				6/11/2019 13:31	0			
	-					-				6/11/2019 13:33	0				6/11/2019 13:32	0			
	-					-				6/11/2019 13:34	0				6/11/2019 13:33	0			
	-					-				6/11/2019 13:35	0				6/11/2019 13:34	0			
	-					-				6/11/2019 13:36	0				6/11/2019 13:35	0			
	-					-				6/11/2019 13:37	0				6/11/2019 13:36	0			
	-					-				6/11/2019 13:38	0				6/11/2019 13:37	0			
	-					-				6/11/2019 13:39	0				6/11/2019 13:38	0			
	-					-				6/11/2019 13:40	0				6/11/2019 13:39	0			
	-					-				6/11/2019 13:41	0				6/11/2019 13:40	0			
	-					-				6/11/2019 13:42	0				6/11/2019 13:41	0			
	-					-				6/11/2019 13:43	0				6/11/2019 13:42	0			
	-					-				6/11/2019 13:44	0				6/11/2019 13:43	0			
	-					-				6/11/2019 13:45	0				6/11/2019 13:44	0			
	-					-				6/11/2019 13:46	0				6/11/2019 13:45	0			
	-					-				6/11/2019 13:47	0				6/11/2019 13:46	0			
	-					-				6/11/2019 13:48	0				6/11/2019 13:47	0			
	-					-				6/11/2019 13:49	0				6/11/2019 13:48	0			
	-					-				6/11/2019 13:50	0				6/11/2019 13:49	0			
	-					-				6/11/2019 13:51	0				6/11/2019 13:50	0			
	-					-				6/11/2019 13:52	0				6/11/2019 13:51	0			
	-					-				6/11/2019 13:53	0				6/11/2019 13:52	0			
	-					-				6/11/2019 13:54	0				6/11/2019 13:53	0			
	-					-				6/11/2019 13:55	0				6/11/2019 13:54	0			
	-					-				6/11/2019 13:56	0				6/11/2019 13:55	0			
	-					-				6/11/2019 13:57	0				6/11/2019 13:56	0			
	-					-				6/11/2019 13:58	0				6/11/2019 13:57	0			
	-					-				6/11/2019 13:59	0				6/11/2019 13:58	0			
	-					-				6/11/2019 14:00	0				6/11/2019 13:59	0			
	-					-				6/11/2019 14:01	0				6/11/2019 14:00	0			
	-					-				6/11/2019 14:02	0				6/11/2019 14:01	0			
	-					-				6/11/2019 14:03	0				6/11/2019 14:02	0			
	-					-				6/11/2019 14:04	0				6/11/2019 14:03	0			
	-					-				6/11/2019 14:05	0				6/11/2019 14:04	0			
	-					-				6/11/2019 14:06	0				6/11/2019 14:05	0			
	-					-				6/11/2019 14:07	0				6/11/2019 14:06	0			
	-					-				6/11/2019 14:08	0				6/11/2019 14:07	0			
	-					-				6/11/2019 14:09	0				6/11/2019 14:08	0			
	-					-				6/11/2019 14:10	0				6/11/2019 14:09	0			
	-					-				6/11/2019 14:11	0				6/11/2019 14:10	0			
	-					-				6/11/2019 14:12	0				6/11/2019 14:11	0			
	-					-				6/11/2019 14:13	0				6/11/2019 14:12	0			
	-					-				6/11/2019 14:14	0				6/11/2019 14:13	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
	-					-				6/11/2019 14:15	0				6/11/2019 14:14	0			
	-					-				6/11/2019 14:16	0				6/11/2019 14:15	0			
	-					-				6/11/2019 14:17	0				6/11/2019 14:16	0			
	-					-				6/11/2019 14:18	0				6/11/2019 14:17	0			
	-					-				6/11/2019 14:19	0				6/11/2019 14:18	0			
	-					-				6/11/2019 14:20	0				6/11/2019 14:19	0			
	-					-				6/11/2019 14:21	0				6/11/2019 14:20	0			
	-					-				6/11/2019 14:22	0				6/11/2019 14:21	0			
	-					-				6/11/2019 14:23	0				6/11/2019 14:22	0			
	-					-				6/11/2019 14:24	0				6/11/2019 14:23	0			
	-					-				6/11/2019 14:25	0				6/11/2019 14:24	0			
	-					-				6/11/2019 14:26	0				6/11/2019 14:25	0			
	-					-				6/11/2019 14:27	0				6/11/2019 14:26	0			
	-					-				6/11/2019 14:28	0				6/11/2019 14:27	0			
	-					-				6/11/2019 14:29	0				6/11/2019 14:28	0			
	-					-				6/11/2019 14:30	0				6/11/2019 14:29	0			
	-					-				6/11/2019 14:31	0				6/11/2019 14:30	0			
	-					-				6/11/2019 14:32	0				6/11/2019 14:31	0			
	-					-				6/11/2019 14:33	0				6/11/2019 14:32	0			
	-					-				6/11/2019 14:34	0				6/11/2019 14:33	0			
	-					-				6/11/2019 14:35	0				6/11/2019 14:34	0			
	-					-				6/11/2019 14:36	0				6/11/2019 14:35	0			
	-					-				6/11/2019 14:37	0				6/11/2019 14:36	0			
	-					-				6/11/2019 14:38	0				6/11/2019 14:37	0			
	-					-				6/11/2019 14:39	0				6/11/2019 14:38	0			
	-					-				6/11/2019 14:40	0				6/11/2019 14:39	0			
	-					-				6/11/2019 14:41	0				6/11/2019 14:40	0			
	-					-				6/11/2019 14:42	0				6/11/2019 14:41	0			
	-					-				6/11/2019 14:43	0				6/11/2019 14:42	0			
	-					-				6/11/2019 14:44	0				6/11/2019 14:43	0			
	-					-				6/11/2019 14:45	0				6/11/2019 14:44	0			
	-					-				6/11/2019 14:46	0				6/11/2019 14:45	0			
	-					-				6/11/2019 14:47	0				6/11/2019 14:46	0			
	-					-				6/11/2019 14:48	0				6/11/2019 14:47	0			
	-					-				6/11/2019 14:49	0				6/11/2019 14:48	0			
	-					-				6/11/2019 14:50	0				6/11/2019 14:49	0			
	-					-				6/11/2019 14:51	0				6/11/2019 14:50	0			
	-					-				6/11/2019 14:52	0				6/11/2019 14:51	0			
	-					-				6/11/2019 14:53	0				6/11/2019 14:52	0			
	-					-				6/11/2019 14:54	0				6/11/2019 14:53	0			
	-					-				6/11/2019 14:55	0				6/11/2019 14:54	0			
	-					-				6/11/2019 14:56	0				6/11/2019 14:55	0			
	-					-				6/11/2019 14:57	0				6/11/2019 14:56	0			
	-					-				6/11/2019 14:58	0				6/11/2019 14:57	0			
	-					-				6/11/2019 14:59	0				6/11/2019 14:58	0			
	-					-				6/11/2019 15:00	0				6/11/2019 14:59	0			
	-					-				6/11/2019 15:01	0				6/11/2019 15:00	0			
	-					-				6/11/2019 15:02	0				6/11/2019 15:01	0			
	-					-				6/11/2019 15:03	0				6/11/2019 15:02	0			
	-					-				6/11/2019 15:04	0				6/11/2019 15:03	0			
	-					-				6/11/2019 15:05	0				6/11/2019 15:04	0			
	-					-				6/11/2019 15:06	0				6/11/2019 15:05	0			
	-					-				6/11/2019 15:07	0				6/11/2019 15:06	0			
	-					-				6/11/2019 15:08	0				6/11/2019 15:07	0			
	-					-				6/11/2019 15:09	0				6/11/2019 15:08	0			
	-					-				6/11/2019 15:10	0				6/11/2019 15:09	0			
	-					-				6/11/2019 15:11	0				6/11/2019 15:10	0			
	-					-				6/11/2019 15:12	0				6/11/2019 15:11	0			
	-					-				6/11/2019 15:13	0				6/11/2019 15:12	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
	-					-				6/11/2019 15:14	0				6/11/2019 15:13	0			
	-					-				6/11/2019 15:15	0				6/11/2019 15:14	0			
	-					-				6/11/2019 15:16	0				6/11/2019 15:15	0			
	-					-				6/11/2019 15:17	0				6/11/2019 15:16	0			
	-					-				6/11/2019 15:18	0				6/11/2019 15:17	0			
	-					-				6/11/2019 15:19	0				6/11/2019 15:18	0			
	-					-				6/11/2019 15:20	0				6/11/2019 15:19	0			
	-					-				6/11/2019 15:21	0				6/11/2019 15:20	0			
	-					-				6/11/2019 15:22	0				6/11/2019 15:21	0			
	-					-				6/11/2019 15:23	0				6/11/2019 15:22	0			
	-					-				6/11/2019 15:24	0				6/11/2019 15:23	0			
	-					-				6/11/2019 15:25	0				6/11/2019 15:24	0			
	-					-				6/11/2019 15:26	0				6/11/2019 15:25	0			
	-					-				6/11/2019 15:27	0				6/11/2019 15:26	0			
	-					-				6/11/2019 15:28	0				6/11/2019 15:27	0			
	-					-				6/11/2019 15:29	0				6/11/2019 15:28	0			
	-					-				6/11/2019 15:30	0				6/11/2019 15:29	0			
	-					-				6/11/2019 15:31	0.3				6/11/2019 15:30	0			
	-					-				6/11/2019 15:32	0.2				6/11/2019 15:31	0			
	-					-				6/11/2019 15:33	0.2				6/11/2019 15:32	0			
	-					-				6/11/2019 15:34	0.2				6/11/2019 15:33	0			
	-					-				6/11/2019 15:35	0.2				6/11/2019 15:34	0			
	-					-				6/11/2019 15:36	0				6/11/2019 15:35	0			
	-					-				6/11/2019 15:37	0				6/11/2019 15:36	0			
	-					-				6/11/2019 15:38	0				6/11/2019 15:37	0			
	-					-				6/11/2019 15:39	0				6/11/2019 15:38	0			
	-					-				6/11/2019 15:40	0				6/11/2019 15:39	0			
	-					-				6/11/2019 15:41	0				6/11/2019 15:40	0			
	-					-				6/11/2019 15:42	0				6/11/2019 15:41	0			
	-					-				6/11/2019 15:43	0				6/11/2019 15:42	0			
	-					-				6/11/2019 15:44	0				6/11/2019 15:43	0			
	-					-				6/11/2019 15:45	0				6/11/2019 15:44	0			
	-					-				6/11/2019 15:46	0				6/11/2019 15:45	0			
	-					-				6/11/2019 15:47	0				6/11/2019 15:46	0			
	-					-				6/11/2019 15:48	0				6/11/2019 15:47	0			
	-					-				6/11/2019 15:49	0				6/11/2019 15:48	0			
	-					-				6/11/2019 15:50	0				6/11/2019 15:49	0			
	-					-				6/11/2019 15:51	0				6/11/2019 15:50	0			
	-					-				6/11/2019 15:52	0				6/11/2019 15:51	0			
	-					-				6/11/2019 15:53	0				6/11/2019 15:52	0			
	-					-				6/11/2019 15:54	0				6/11/2019 15:53	0			
	-					-				6/11/2019 15:55	0				6/11/2019 15:54	0			
	-					-				6/11/2019 15:56	0				6/11/2019 15:55	0			
	-					-				6/11/2019 15:57	0				6/11/2019 15:56	0			
	-					-				6/11/2019 15:58	0				6/11/2019 15:57	0			
	-					-				6/11/2019 15:59	0				6/11/2019 15:58	0			
	-					-				6/11/2019 16:00	0				6/11/2019 15:59	0			
	-					-				6/11/2019 16:01	0				6/11/2019 16:00	0			
	-					-				6/11/2019 16:02	0				6/11/2019 16:01	0			
	-					-				6/11/2019 16:03	0				6/11/2019 16:02	0			
	-					-				6/11/2019 16:04	0				6/11/2019 16:03	0			
	-					-				6/11/2019 16:05	0				6/11/2019 16:04	0			
	-					-				6/11/2019 16:06	0				6/11/2019 16:05	0			
	-					-				6/11/2019 16:07	0				6/11/2019 16:06	0			
	-					-				6/11/2019 16:08	0				6/11/2019 16:07	0			
	-					-				6/11/2019 16:09	0				6/11/2019 16:08	0			
	-					-				6/11/2019 16:10	0				6/11/2019 16:09	0			
	-					-				6/11/2019 16:11	0				6/11/2019 16:10	0			
	-					-				6/11/2019 16:12	0				6/11/2019 16:11	0			

ATTACHMENT 1

Table 1B - VOCS
Building 22 Area Soil Removal IRM VOC Monitoring Data
BMS Syracuse North Campus Area
East Syracuse, New York

ARCADIS Design & Consultancy for natural and built assets

Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments	Date/Time	PID(ppm)	Alarms	Errors	Comments
	-					-				6/11/2019 16:13	0				6/11/2019 16:12	0			
	-					-				6/11/2019 16:14	0				6/11/2019 16:13	0			
	-					-				6/11/2019 16:15	0				6/11/2019 16:14	0			
	-					-				6/11/2019 16:16	0				6/11/2019 16:15	0			
	-					-				6/11/2019 16:17	0				6/11/2019 16:16	0			
	-					-				6/11/2019 16:18	0				6/11/2019 16:17	0			
	-					-				6/11/2019 16:19	0				6/11/2019 16:18	0			
	-					-				6/11/2019 16:20	0				6/11/2019 16:19	0			
	-					-				6/11/2019 16:21	0				6/11/2019 16:20	0			
	-					-				6/11/2019 16:22	0				6/11/2019 16:21	0			
	-					-				6/11/2019 16:23	0				6/11/2019 16:22	0			
	-					-				6/11/2019 16:24	0				6/11/2019 16:23	0			

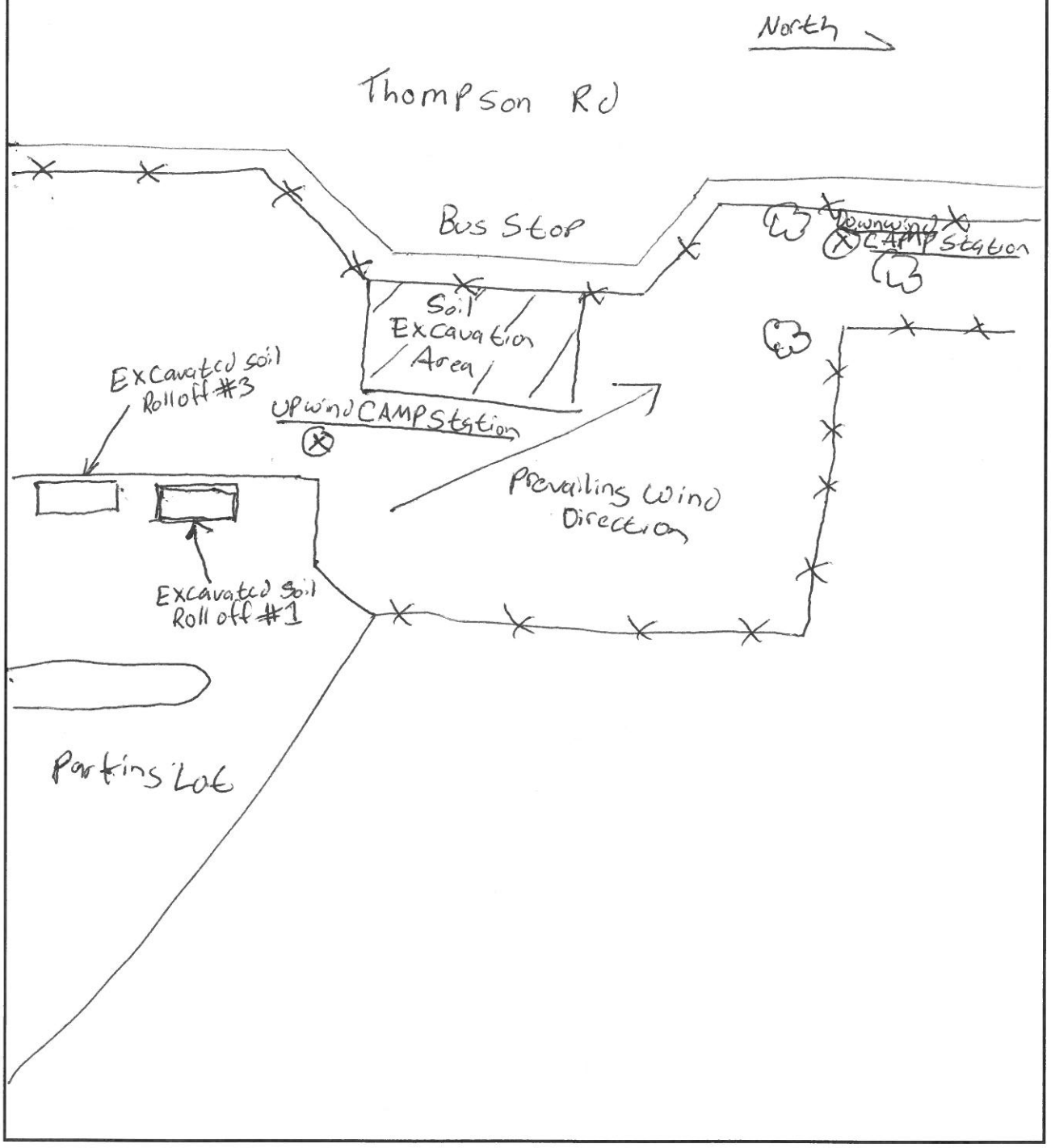
ATTACHMENT 2

ARCADIS Design & Consultancy for natural and built assets

Daily CAMP Log

Project	Building 22 Area Soil Excavation IRM
Location	East Syracuse, NY
Date	6/10/2019
Weather Conditions	Low 70's precipitation late morning/early afternoon
Upwind Monitor	DustTrak II(# 8530141715), PID (# 592-908547)
Downwind Monitor	DustTrak II(# 8530183906), PID (# 592-000174)
Start Time	8:17 AM
End Time	1:49 PM

Site Sketch



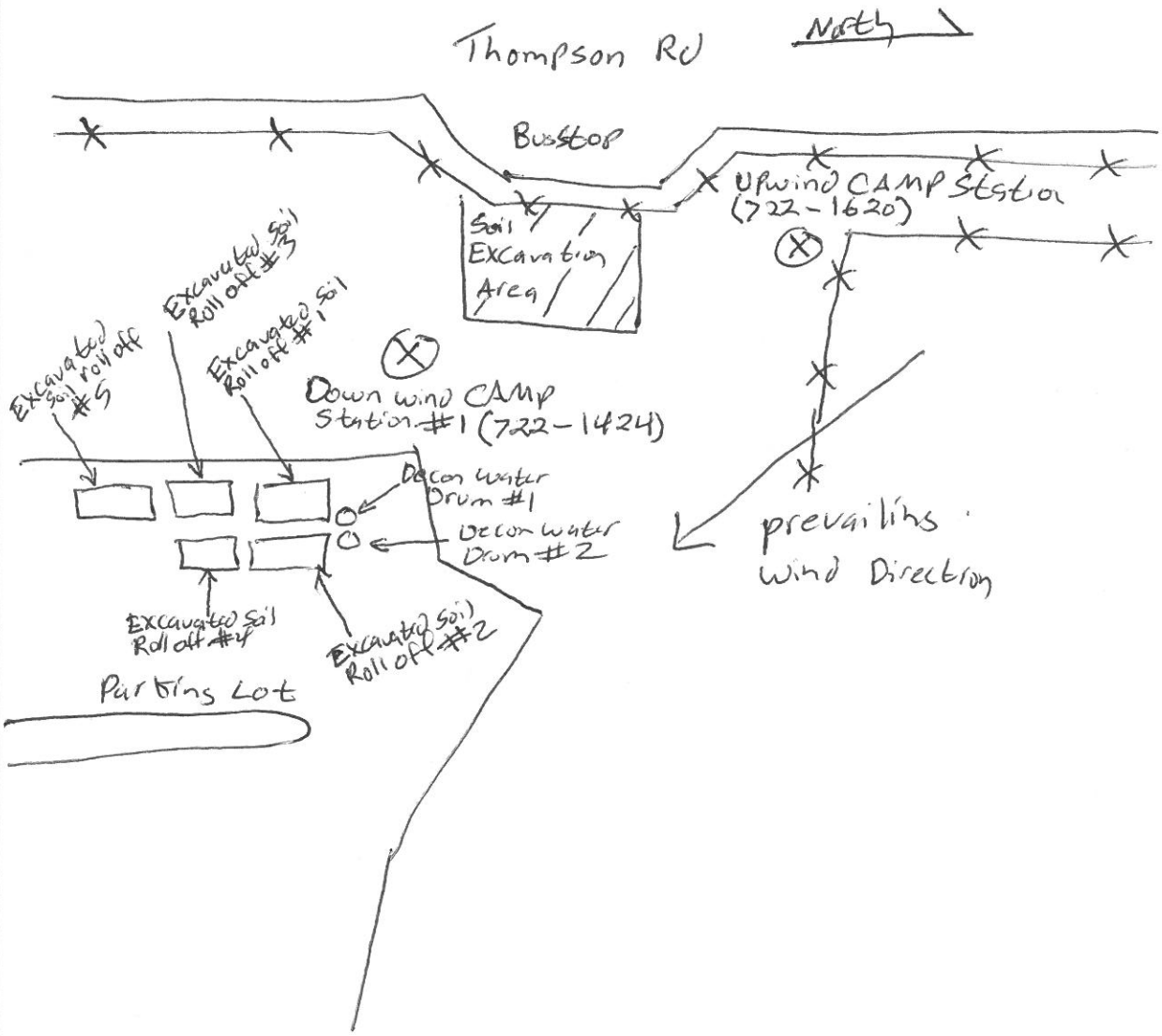
ATTACHMENT 3

ARCADIS Design & Consultancy for natural and built assets

Daily CAMP Log

Project	Building 22 Area Soil Excavation IRM
Location	East Syracuse, NY
Date	6/11/2019
Weather Conditions	Low 70's, partly cloudy
Upwind Monitor	DustTrak II(# 8530141715), PID (# 592-908547)
Downwind Monitor	DustTrak II(# 8530183906), PID (# 592-000174)
Start Time	7:22 AM
End Time	4:20 PM

Site Sketch



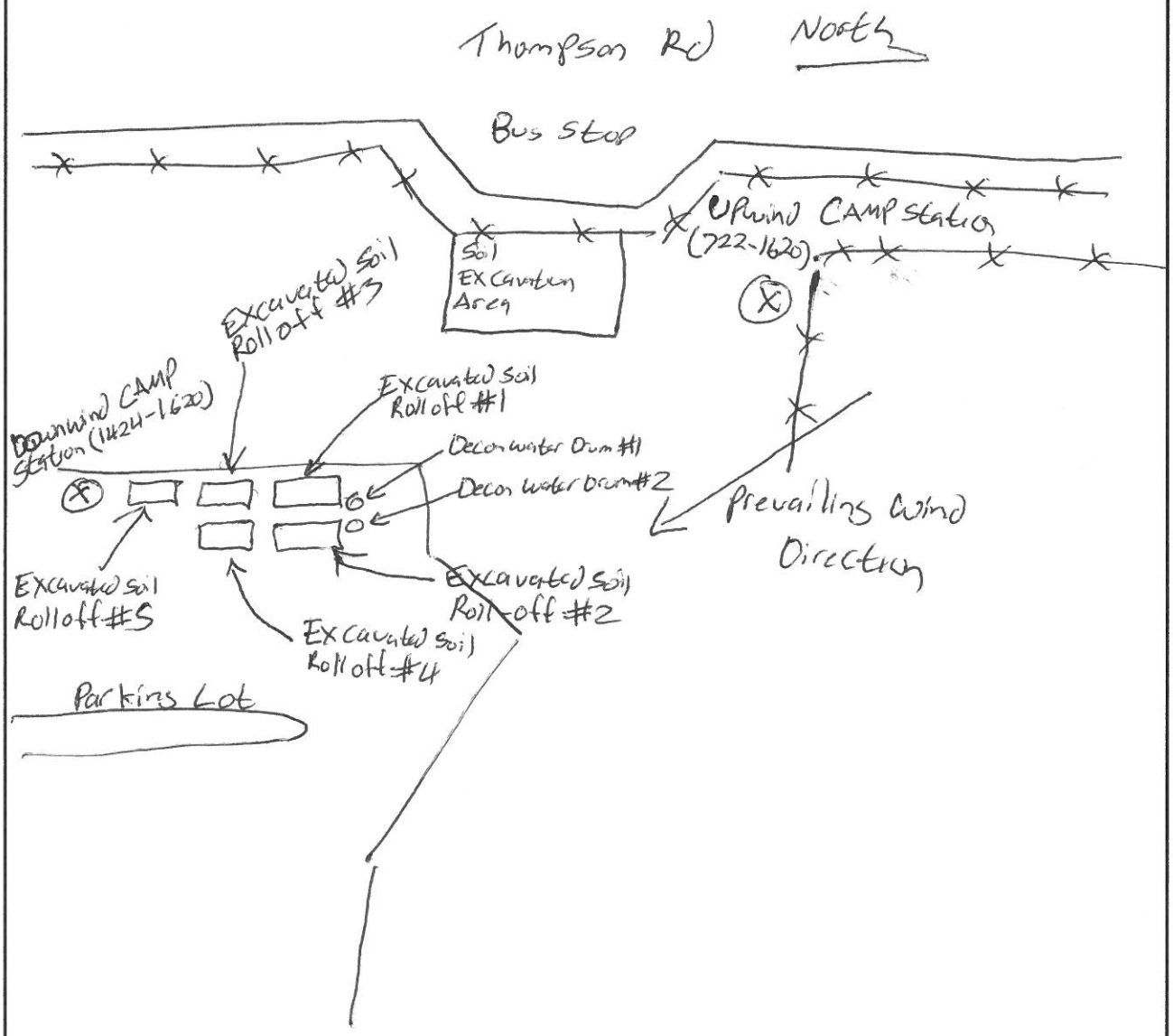
ATTACHMENT 4

ARCADIS Design & Consultancy for natural and built assets

Daily CAMP Log

Project	Building 22 Area Soil Excavation IRM
Location	East Syracuse, NY
Date	6/11/2019
Weather Conditions	Low 70's, partly cloudy
Upwind Monitor	DustTrak II(# 8530141715), PID (# 592-908547)
Downwind Monitor	DustTrak II(# 8530183906), PID (# 592-000174)
Start Time	7:22 AM
End Time	4:20 PM

Site Sketch



ATTACHMENT 3

Laboratory Analytical Report

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Analysis Report

Partial Report

Sample Description: **BCP-SS-2019A(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084484
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 14:50
SDG#: BMS72-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0051	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0088	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0036	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0036	1
10885	PCB-1254	11097-69-1	0.014 JD1	0.019	0.0036	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0054	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0036	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0036	1
10885	Total PCBs[1]	1336-36-3	0.014 J	0.019	0.0036	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	9.6	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:07	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **BCP-SS-2019A(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084485
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:00
SDG#: BMS72-02

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019A(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084485
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:00
SDG#: BMS72-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0050	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0088	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0036	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0036	1
10885	PCB-1254	11097-69-1	0.010 JD1	0.019	0.0036	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0054	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0036	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0036	1
10885	Total PCBs[1]	1336-36-3	0.010 J	0.019	0.0036	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.1	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:18	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **BCP-SS-2019B(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084486
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:10
SDG#: BMS72-03

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019B(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084486**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:10
SDG#: BMS72-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0051	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0089	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.0094 JD1	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.0094 J	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.5	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:28	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **BCP-SS-2019B(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084487**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:20
SDG#: BMS72-04

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019B(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084487**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:20
SDG#: BMS72-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0051	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0089	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.0070 JD1	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.0070 J	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.7	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:39	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **BCP-SS-2019C(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084488**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-05

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019C(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084488**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0052	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0090	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.091 D1	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.091	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	11.0	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:49	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **BCP-SS-2019C(0.25-1.0) MS Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084489**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-06

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019C(0.25-1.0) MS Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084489
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.094	0.020	5
10885	PCB-1221	11104-28-2	N.D. D1	0.094	0.026	5
10885	PCB-1232	11141-16-5	N.D. D1	0.094	0.044	5
10885	PCB-1242	53469-21-9	N.D. D1	0.094	0.018	5
10885	PCB-1248	12672-29-6	N.D. D1	0.094	0.018	5
10885	PCB-1254	11097-69-1	0.54 D2	0.094	0.018	5
10885	PCB-1260	11096-82-5	N.D. D1	0.094	0.027	5
10885	PCB-1262	37324-23-5	N.D. D1	0.094	0.018	5
10885	PCB-1268	11100-14-4	N.D. D1	0.094	0.018	5
10885	Total PCBs[1]	1336-36-3	0.54	0.094	0.018	5
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.6	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 18:00	Covenant Mutuku	5
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **BCP-SS-2019C(0.25-1.0) MSD Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084490
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-07

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019C(0.25-1.0) MSD Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084490
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.021	0.0044	1
10885	PCB-1221	11104-28-2	N.D. D1	0.021	0.0056	1
10885	PCB-1232	11141-16-5	N.D. D1	0.021	0.0098	1
10885	PCB-1242	53469-21-9	N.D. D1	0.021	0.0040	1
10885	PCB-1248	12672-29-6	N.D. D1	0.021	0.0040	1
10885	PCB-1254	11097-69-1	0.20 D1	0.021	0.0040	1
10885	PCB-1260	11096-82-5	N.D. D1	0.021	0.0060	1
10885	PCB-1262	37324-23-5	N.D. D1	0.021	0.0040	1
10885	PCB-1268	11100-14-4	N.D. D1	0.021	0.0040	1
10885	Total PCBs[1]	1336-36-3	0.20	0.021	0.0040	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	18.3	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 18:11	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19175820001A	06/25/2019 12:02	Larry E Bevins	1

Sample Description: **BCP-SS-2019(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084491
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:40
SDG#: BMS72-08

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **BCP-SS-2019(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084491
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:40
SDG#: BMS72-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0052	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0090	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.014 JD2	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.014 J	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	11.3	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 18:21	Covenant Mutuku	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **WC-BLD22-IRM-C Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084492
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:00
SDG#: BMS72-09

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-C Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084492
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:00
SDG#: BMS72-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.22	0.047	10
10885	PCB-1221	11104-28-2	N.D. D1	0.22	0.060	10
10885	PCB-1232	11141-16-5	N.D. D1	0.22	0.10	10
10885	PCB-1242	53469-21-9	N.D. D1	0.22	0.043	10
10885	PCB-1248	12672-29-6	N.D. D1	0.22	0.043	10
10885	PCB-1254	11097-69-1	1.6 D2	0.22	0.043	10
10885	PCB-1260	11096-82-5	N.D. D1	0.22	0.064	10
10885	PCB-1262	37324-23-5	N.D. D1	0.22	0.043	10
10885	PCB-1268	11100-14-4	N.D. D1	0.22	0.043	10
10885	Total PCBs[1]	1336-36-3	1.6	0.22	0.043	10
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	
01123	Cyanide (Reactivity)	n.a.	N.D.	58.3	19.4	1
	ASTM D93-90		**Degrees F**	**Degrees F**	**Degrees F**	
00430	Flash Point[1]	n.a.	No Flash Observed	50	50	1
	No flash observed below 170F. Test flame extinguished at 150F. Flash point was determined using Pensky Martens closed cup apparatus. The Pensky Martens closed cup apparatus is designed to determine the flashpoint of a liquid sample. The sample submitted could not be mixed well enough to obtain uniform heating. The temperature being measured was that of the material near the top of the cup. The material at the bottom of the cup would have a higher temperature. The temperature reported may not be accurate.					
	SW-846 9034		**mg/kg**	**mg/kg**	**mg/kg**	
01122	Sulfide (Reactivity)[1]	n.a.	N.D.	160	53.6	1
	SW-846 9045D Nov 2004		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH[1]	n.a.	7.79	0.0100	0.0100	1
	The pH was measured in water at 20.3 C.					
	SW-846 Chapter 7					
00496	Corrosivity[1]	n.a.	See Below	0	0	1
	The pH of the sample is 7.79 indicating that the sample is not corrosive. A sample is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.					
	SW-846 Chapter 7.3		**see below**	**see below**	**see below**	
01121	Reactivity[1]	n.a.	See Below	0	0	1

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-C Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **SW 1084492**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:00
SDG#: BMS72-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SW-846 Chapter 7.3**		**see below**	**see below**	**see below**	

Reactivity:
This sample was extracted and analyzed by the interim method described in SW-846 Revision 3, December 1996 - Chapter 7.3. The Interim Guidance for Reactive Cyanide and Reactive Sulfide (SW-846 Sections 7.3.3 and 7.3.4 of Chapter 7 - December 1996) identifies a reactive material as generating more than 250 mg/kg of hydrogen cyanide or 500 mg/kg of hydrogen sulfide. This waste is not considered hazardous due to reactivity based on that standard. These results do not reflect total cyanide or total sulfide. On July 14, 2005, EPA published a rule in the Federal Register that removed the Interim Guidance and the method referenced above. At this time there is no specific guidance or a method to be used to evaluate "Reactivity".

Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	23.7	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 18:32	Covenant Mutuku	10
01123	Cyanide (Reactivity)	SW-846 9012B	1	19175104201A	06/24/2019 21:35	Gregory Baldree	1
00430	Flash Point	ASTM D93-90	1	19171043001A	06/20/2019 09:00	Susan A Engle	1
01122	Sulfide (Reactivity)	SW-846 9034	1	19171112201A	06/20/2019 09:11	Susan E Hibner	1
00394	pH	SW-846 9045D Nov 2004	1	19177039401B	06/26/2019 17:00	Jeremy L Bolf	1
00496	Corrosivity	SW-846 Chapter 7	1	19177039401B	06/26/2019 17:00	Jeremy L Bolf	1
01121	Reactivity	SW-846 Chapter 7.3	1	19171112201A	06/20/2019 09:11	Susan E Hibner	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

Sample Description: **WC-BLD22-IRM-C Composite Soil**
TCLP NVE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **TL 1084493**
ELLE Group #: **2049748**
Matrix: Soil

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-C Composite Soil**
TCLP NVE
BMS Bldg 22 Area IRM

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084493
ELLE Group #: 2049748
Matrix: Soil

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:00
SDG#: BMS72-10

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**mg/l**	**mg/l**	**mg/l**	
14252	1,4-Dichlorobenzene	106-46-7	N.D.	0.010	0.003	1
14252	2,4-Dinitrotoluene	121-14-2	N.D.	0.025	0.005	1
14252	Hexachlorobenzene	118-74-1	N.D.	0.003	0.0005	1
14252	Hexachlorobutadiene	87-68-3	N.D.	0.010	0.003	1
14252	Hexachloroethane	67-72-1	N.D.	0.025	0.005	1
14252	2-Methylphenol	95-48-7	N.D.	0.010	0.003	1
14252	4-Methylphenol	65794-96-9	N.D.	0.010	0.003	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14252	Nitrobenzene	98-95-3	N.D.	0.010	0.003	1
14252	Pentachlorophenol	87-86-5	N.D.	0.025	0.005	1
14252	Pyridine	110-86-1	N.D.	0.025	0.010	1
14252	2,4,5-Trichlorophenol	95-95-4	N.D.	0.010	0.003	1
14252	2,4,6-Trichlorophenol	88-06-2	N.D.	0.010	0.003	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0500	0.0160	1
07046	Barium	7440-39-3	0.515	0.0050	0.0010	1
07049	Cadmium	7440-43-9	0.0013 J	0.0050	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0150	0.0053	1
07055	Lead	7439-92-1	N.D.	0.0150	0.0071	1
07036	Selenium	7782-49-2	N.D.	0.0500	0.0210	1
07066	Silver	7440-22-4	N.D.	0.0100	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.00020	0.000050	1

Sample Comments

State of New York Certification No. 10670

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14252	TCLP 8270D MINI	SW-846 8270D	1	19175WAK026	06/26/2019 02:11	Ashley R Transue	1
07035	Arsenic	SW-846 6010C	1	191751404504	06/25/2019 08:35	Kevin Litwa	1
07046	Barium	SW-846 6010C	1	191751404504	06/25/2019 11:24	Kevin Litwa	1
07049	Cadmium	SW-846 6010C	1	191751404504	06/25/2019 08:35	Kevin Litwa	1
07051	Chromium	SW-846 6010C	1	191751404504	06/25/2019 08:35	Kevin Litwa	1
07055	Lead	SW-846 6010C	1	191751404504	06/25/2019 08:35	Kevin Litwa	1

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07036	Selenium	SW-846 6010C	1	191751404504	06/25/2019 08:35	Kevin Litwa	1
07066	Silver	SW-846 6010C	1	191751404504	06/25/2019 08:35	Kevin Litwa	1
00259	Mercury	SW-846 7470A	1	191750571303	06/25/2019 11:55	Damary Valentin	1

Sample Description: **WC-BLD22-IRM-R01 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084494
ELLE Group #: 2049748
Matrix: Soil

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:10
SDG#: BMS72-11

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	
11997	Benzene	71-43-2	N.D.	0.020	0.004	20
11997	2-Butanone	78-93-3	0.007 J	0.20	0.006	20
11997	Carbon Tetrachloride	56-23-5	N.D.	0.020	0.004	20
11997	Chlorobenzene	108-90-7	N.D.	0.020	0.004	20
11997	Chloroform	67-66-3	N.D.	0.020	0.004	20
11997	1,2-Dichloroethane	107-06-2	N.D.	0.020	0.006	20
11997	1,1-Dichloroethene	75-35-4	N.D.	0.020	0.004	20
11997	Tetrachloroethene	127-18-4	N.D.	0.020	0.004	20
11997	Trichloroethene	79-01-6	N.D.	0.020	0.004	20
11997	Vinyl Chloride	75-01-4	N.D.	0.020	0.004	20

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated:
2-Butanone.

Sample Comments

State of New York Certification No. 10670

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C/D	SW-846 8260C	1	W191782AA	06/28/2019 04:49	Patrick T Herres	20

Sample Description: **WC-BLD22-IRM-R02 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084495
ELLE Group #: 2049748
Matrix: Soil

Project Name: **Bristol-Myers Squibb**

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-R02 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:15
SDG#: BMS72-12

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084495
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	
11997	Benzene	71-43-2	N.D.	0.020	0.004	20
11997	2-Butanone	78-93-3	N.D.	0.20	0.006	20
11997	Carbon Tetrachloride	56-23-5	N.D.	0.020	0.004	20
11997	Chlorobenzene	108-90-7	N.D.	0.020	0.004	20
11997	Chloroform	67-66-3	N.D.	0.020	0.004	20
11997	1,2-Dichloroethane	107-06-2	N.D.	0.020	0.006	20
11997	1,1-Dichloroethene	75-35-4	N.D.	0.020	0.004	20
11997	Tetrachloroethene	127-18-4	N.D.	0.020	0.004	20
11997	Trichloroethene	79-01-6	N.D.	0.020	0.004	20
11997	Vinyl Chloride	75-01-4	N.D.	0.020	0.004	20

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

State of New York Certification No. 10670

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C/D	SW-846 8260C	1	W191782AA	06/28/2019 05:13	Patrick T Herres	20

Sample Description: **WC-BLD22-IRM-R03 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:20
SDG#: BMS72-13

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084496
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-R03 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084496
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:20
SDG#: BMS72-13

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	
11997	Benzene	71-43-2	N.D.	0.020	0.004	20
11997	2-Butanone	78-93-3	N.D.	0.20	0.006	20
11997	Carbon Tetrachloride	56-23-5	N.D.	0.020	0.004	20
11997	Chlorobenzene	108-90-7	N.D.	0.020	0.004	20
11997	Chloroform	67-66-3	N.D.	0.020	0.004	20
11997	1,2-Dichloroethane	107-06-2	N.D.	0.020	0.006	20
11997	1,1-Dichloroethene	75-35-4	N.D.	0.020	0.004	20
11997	Tetrachloroethene	127-18-4	N.D.	0.020	0.004	20
11997	Trichloroethene	79-01-6	N.D.	0.020	0.004	20
11997	Vinyl Chloride	75-01-4	N.D.	0.020	0.004	20

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

State of New York Certification No. 10670

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C/D	SW-846 8260C	1	W191782AA	06/28/2019 05:37	Patrick T Herres	20

Sample Description: **WC-BLD22-IRM-R04 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084497
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:25
SDG#: BMS72-14

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-R04 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **TL 1084497**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:25
SDG#: BMS72-14

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	
11997	Benzene	71-43-2	N.D.	0.020	0.004	20
11997	2-Butanone	78-93-3	N.D.	0.20	0.006	20
11997	Carbon Tetrachloride	56-23-5	N.D.	0.020	0.004	20
11997	Chlorobenzene	108-90-7	N.D.	0.020	0.004	20
11997	Chloroform	67-66-3	N.D.	0.020	0.004	20
11997	1,2-Dichloroethane	107-06-2	N.D.	0.020	0.006	20
11997	1,1-Dichloroethene	75-35-4	N.D.	0.020	0.004	20
11997	Tetrachloroethene	127-18-4	N.D.	0.020	0.004	20
11997	Trichloroethene	79-01-6	N.D.	0.020	0.004	20
11997	Vinyl Chloride	75-01-4	N.D.	0.020	0.004	20

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

State of New York Certification No. 10670

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C/D	SW-846 8260C	1	W191782AA	06/28/2019 06:00	Patrick T Herres	20

Sample Description: **WC-BLD22-IRM-R05 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: **TL 1084498**
ELLE Group #: **2049748**
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:25
SDG#: BMS72-15

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

Partial Report

Sample Description: **WC-BLD22-IRM-R05 Grab Soil**
TCLP ZHE
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

ARCADIS U.S., Inc.
ELLE Sample #: TL 1084498
ELLE Group #: 2049748
Matrix: Soil

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 16:25
SDG#: BMS72-15

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**mg/l**	**mg/l**	**mg/l**	
11997	Benzene	71-43-2	N.D.	0.020	0.004	20
11997	2-Butanone	78-93-3	N.D.	0.20	0.006	20
11997	Carbon Tetrachloride	56-23-5	N.D.	0.020	0.004	20
11997	Chlorobenzene	108-90-7	N.D.	0.020	0.004	20
11997	Chloroform	67-66-3	N.D.	0.020	0.004	20
11997	1,2-Dichloroethane	107-06-2	N.D.	0.020	0.006	20
11997	1,1-Dichloroethene	75-35-4	N.D.	0.020	0.004	20
11997	Tetrachloroethene	127-18-4	N.D.	0.020	0.004	20
11997	Trichloroethene	79-01-6	N.D.	0.020	0.004	20
11997	Vinyl Chloride	75-01-4	N.D.	0.020	0.004	20

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

State of New York Certification No. 10670

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C/D	SW-846 8260C	1	W191782AA	06/28/2019 06:23	Patrick T Herres	20

*=This limit was used in the evaluation of the final result

Reference ID:
2049748020719135102

3074 / 2049348 / 10844484-98

Chain of Custody Record

315088

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

Client Contact	Project Manager: Bill McCone	Site Contact: Evan Green	Date: 6/12/14	COC No:
Company Name: Arcadis - US	Tel/Fax: 315-420-4348	Lab Contact: Megan Modler	Carrier:	1 of 2 COCs
Address: 110 W Fayette St #300	Analysis Turnaround Time			Sampler:
City/State/Zip: Syracuse, NY 13202	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: BMS Bldg 22 Area IRM				Job / SDG No.:
Site: BMS Syracuse				
PO# B0087363.0037				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A PCB	TCLP SVOC	TEST	HERB	MTAL	RCI	TCLP VOC	Sample Specific Notes:
BCP-SS-2049A (0.25-1.0)	6/12/14	1450	G	SO	1	N	N	X							
BCP-SS-2019A (1.0-2.0)	6/12/14	1500	G	SO	1	N	N	X							
BCP-SS-2019B (0.25-1.0)	6/12/14	1510	G	SO	1	N	N	X							
BCP-SS-2019B (1.0-2.0)	6/12/14	1520	G	SO	1	N	N	X							
BCP-SS-2019C (0.25-1.0)	6/12/14	1530	G	SO	1	N	N	X							
BCP-SS-2019C (0.25-1.0) MS	6/12/14	1530	G	SO	1	N	Y	X							
BCP-SS-2019C (0.25-1.0) MSD	6/12/14	1530	G	SO	1	N	Y	X							
BCP-SS-2019 (1.0-2.0)	6/12/14	1540	G	SO	1	N	N	X							
WC-BLD22-IRM-C	6/12/14	1600	C	SO	2	N	N	X	X	X	X	X	X		
WC-BLD22-IRM-R01	6/12/14	1610	G	SO	1									X	
WC-BLD22-IRM-R02	6/12/14	1615	G	SO	1									X	
WC-BLD22-IRM-R03	6/12/14	1620	G	SO	1									X	

Syracuse #225

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please Ship to: Eurofins Lancaster Laboratories Environmental LLC
Attn: Sample Receiving
2425 New Holland Pike Lancaster PA 17601
FedEx account # 1077-8526-4

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Arcadis	6/12/14 1730	[signature]	SYR	6.13.14, 18:20
Relinquished by: [signature]	Company: SYR	Date/Time: 6.12.14 1800	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: ELLE	Date/Time: 6.13.14 0940

30741 / 2049348 / 1084484-98 **Chain of Custody Record** 315087

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

Client Contact	Project Manager: Bill McClure	Site Contact: Evan Green	Date: 6/12/14	COC No:
Company Name: ARCADIS-US	Tel/Fax: 315-420-4326	Lab Contact: Megan Moeller	Carrier:	2 of 2 COCs
Address: 110 W Fayette St #300	**Analysis Turnaround Time**			Sampler:
City/State/Zip: Syracuse, NY 13202	☒ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: BMS Bldg 22 Area IRM	☐ 1 week			
Site: BMS Syracuse	☐ 2 days			Job / SDG No.:
PO# 800 87363.0037	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCLP VOC	Sample Specific Notes:
WC-BLD22-IRM-R04	6/12/14	1625	G	SO	1	N	N	X	
WC-BLD22-IRM-R05	6/12/14	1635	G	SO	1	N	N	X	
6-12-14 RC									

Syracuse #225

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: See COC #1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	ARCADIS	6/12/14 1730	[signature]	Syr	6-13-14, 17:20
Relinquished by: [signature]	Company: Syr	Date/Time: 6-13-14 18:05	Received by: [signature]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: ELLE	Date/Time: 6-13-14 0940

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Sample Administration Receipt Documentation Log

Doc Log ID: 251442

Group Number(s): 2049748

Client: Arcadis

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	06/13/2019 9:50
Number of Packages:	1	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Darian Jaynes (29952) at 20:59 on 06/13/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-01	3.7	DT	Wet	Y	Loose/Bag	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

ATTACHMENT 4

Data Usability Summary Report

ARCADIS Design & Consultancy for natural and built assets

Bristol-Myers Squibb

Thompson Road Investigation

Data Usability Summary Report

Syracuse, NY

PCB Analysis

SDGs # BMS72

Analyses Performed By:
Eurofins Lancaster Laboratories Environmental

Lancaster, PA

Report #34007R
Review Level: Tier III
Project: 30003539 - B0087363.0040-2019

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # BMS72 for samples collected in association with the with the Bristol-Myers Squibb Thompson Road Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
BCP-SS-2019A(0.25-1.0)	1084484	Soil	6/12/2019				X		
BCP-SS-2019A(1.0-2.0)	1084485	Soil	6/12/2019				X		
BCP-SS-2019B(0.25-1.0)	1084486	Soil	6/12/2019				X		
BCP-SS-2019B(1.0-2.0)	1084487	Soil	6/12/2019				X		
BCP-SS-2019C(0.25-1.0)	1084488	Soil	6/12/2019				X		
BCP-SS-2019(1.0-2.0)	1084491	Soil	6/12/2019				X		

Notes:

1. TCLP analyses and Waste Characterization (WC) samples associated with this SDG were not evaluated in this report.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:
QA - Quality Assurance

List of Acronyms

%D: Percent Difference

%R: Percent Recovery

AC: Acceptable

ALC/GLY: Alcohols/Glycols

BAL: Blank Action Level

CCV: Continuing Calibration Verification

CRDL: Contract Required Detection Limit

D: Dilution

EIS: Extractable Internal Standard

FB: Field Blank

FD: Field Duplicate

ALD: Aldehydes

GC/ECD: Gas Chromatograph/Electron Capture Detector

GC/MS: Gas Chromatograph/Mass spectrometer

HT: Holding Time

ICP: Inductively Coupled Plasma

ICS: Interference Control Sample

ICV: Initial Calibration Verification

ISTD: Internal Standards

LabDup: Laboratory Duplicate

LCS: Lab Control Sample

LCSD: Lab Control Sample Duplicate

LL: Lower Control Limit

MB: Method Blank

MDL: Method Detection Limit

MET: Metals

MS: Matrix Spike

MSD: Matrix Spike Duplicate

N/A: Not Applicable

NC: Not Compliant

List of Acronyms, Continued

PAH: Polyaromatic Hydrocarbon

PCB: Polychlorinated Biphenyl

PEST: Pesticide

PFAS: Per- and Polyfluoroalkyl Substances

QA: Quality Assurance

QC: Quality Control

RB: Rinse Blank

RL: Reporting Limit

RPD: Relative Percent Difference

RRF: Relative Response Factor

RSD: Relative Standard Deviation

RT: Retention Time

SDG: Sample Delivery Group

SerDil: Serial Dilution

SIM: Single Ion Monitoring

SOP: Standard Operating Procedure

SSTD: Surrogate Standards

SVOC: Semivolatile Organic Compound

TB: Trip Blank

TIC: Tentatively Identified Compound

TOC: Total Organic Carbon

TOTDIS: Total and Dissolved

UL: Upper Control Limit

USEPA: United States Environmental Protection Agency

VOC: Volatile Organic Compound

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW846 methods 8082A. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and applicable EPA Region 2 SOPs.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.

- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8082A	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

The holding time above is a recommendation. PCBs are very stable in a variety of matrices, and holding times, under the conditions listed above, may be as long as a year per SW-846 8082A (February 2007).

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Instrument Performance

Instrumentation performance is verified by evaluating the chromatographic resolution of standards/surrogates as well as reviewing the chromatographic baseline. At the beginning of each 12-hour period during which samples or standards are analyzed, the retention time (RT) windows are verified for the identification of target compounds.

The instrument performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed or a correlation coefficient greater than 0.99. Multiple-point calibrations were performed for Aroclor 1016 and 1260 only. Single-point calibrations were performed for the remaining Aroclors.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%).

All Aroclors associated with calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that one of the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries reported from the primary column were within control limits.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD analysis was not performed on a sample location within this SDG.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not included with this SDG

9. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns. When dual column analysis is performed the relative percent difference (%RPD) of detected sample results must be less than 25%.

Sample locations associated with RPD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	RPD
BCP-SS-2019B(1.0-2.0)	Aroclor 1254	32.3%

The criteria used to evaluate the RPD are presented in the following table. In the case of a RPD deviation, the sample results are qualified as documented in the table below.

Control Limit (%D)	Qualification
>25% to 70%	J
>70% to 100%	JN
>100% [1]	R
>100% to 200% (Interference detected)[2]	J or JN
>50% (PCB sample results less than the RL)	U

When the PCB sample results are less than the RL and the RPD greater than 50% the sample result are raised to the RL and reported as non-detect.

Note 1: If the pattern is confirmed sample results will be qualified as estimated (J). If pattern exhibits interference or if the PCB cannot be positively determined due to weathering the sample results will be qualified as tentative identification estimate (JN).

Note 2: If interference is detected in either column the sample results will be qualified as tentative identification estimate (JN).

10. System Performance and Overall Assessment

Please note the laboratory qualified results with “D1” and “D2” to indicate which column results were reported from; these qualifiers were removed during validation as they have no impact on data quality.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR PCBs

PCBs; SW-846 8082	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/ECD)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Rinse/Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R					X
Matrix Spike Duplicate(MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
Surrogate Spike Recoveries		X		X	
Column (RPD) (If dual column is performed-not confirmation purposes only)		X		X	
Dilution Factor		X		X	
Moisture Content		X		X	
Tier III Validation					
Initial calibration %RSDs		X		X	
Continuing calibration %Ds		X		X	
System performance and column resolution		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Pattern identification		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
BMS72	6/12/2019	SW846	BCP-SS-2019A(0.25-1.0)	Soil	-	-	Yes	-	-	
	6/12/2019	SW846	BCP-SS-2019A(1.0-2.0)	Soil	-	-	Yes	-	-	
	6/12/2019	SW846	BCP-SS-2019B(0.25-1.0)	Soil	-	-	Yes	-	-	
	6/12/2019	SW846	BCP-SS-2019B(1.0-2.0)	Soil	-	-	Yes	-	-	
	6/12/2019	SW846	BCP-SS-2019C(0.25-1.0)	Soil	-	-	Yes	-	-	
	6/12/2019	SW846	BCP-SS-2019(1.0-2.0)	Soil	-	-	Yes	-	-	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Jeffrey L. Davin

SIGNATURE: 

DATE: September 6, 2019

PEER REVIEW: Dennis K. Capria

DATE: October 2, 2019

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS (Following 8 pages)

3074 / 2049348 / 10844484-98

Chain of Custody Record

315088

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

Client Contact	Project Manager: Bill McCone	Site Contact: Evan Green	Date: 6/12/14	COC No:
Company Name: Arcadis - US	Tel/Fax: 315-420-4348	Lab Contact: Megan Modler	Carrier:	1 of 2 COCs
Address: 110 W Fayette St #300	**Analysis Turnaround Time**			Sampler:
City/State/Zip: Syracuse, NY 13202	☒ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: BMS Bldg 22 Area IRM	☐ 1 week			Job / SDG No.:
Site: BMS Syracuse	☐ 2 days			
PO# B0087363.0037	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A PCB	TCLP SVOC	TEST	HERB	MTAL	RCI	TCLP VOC	Sample Specific Notes:
BCP-SS-2049A (0.25-1.0)	6/12/14	1450	G	SO	1	N	N	X							
BCP-SS-2019A (1.0-2.0)	6/12/14	1500	G	SO	1	N	N	X							
BCP-SS-2019B (0.25-1.0)	6/12/14	1510	G	SO	1	N	N	X							
BCP-SS-2019B (1.0-2.0)	6/12/14	1520	G	SO	1	N	N	X							
BCP-SS-2019C (0.25-1.0)	6/12/14	1530	G	SO	1	N	N	X							
BCP-SS-2019C (0.25-1.0) MS	6/12/14	1530	G	SO	1	N	Y	X							
BCP-SS-2019 (0.25-1.0) MSD	6/12/14	1530	G	SO	1	N	Y	X							
BCP-SS-2019 (1.0-2.0)	6/12/14	1540	G	SO	1	N	N	X							
WC-BLD22-IRM-C	6/12/14	1600	C	SO	2	N	N	X	X	X	X	X	X		
WC-BLD22-IRM-R01	6/12/14	1610	G	SO	1									X	
WC-BLD22-IRM-R02	6/12/14	1615	G	SO	1									X	
WC-BLD22-IRM-R03	6/12/14	1620	G	SO	1									X	

Syracuse #225

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please Ship to: Eurofins Lancaster Laboratories Environmental LLC
Attn: Sample Receiving
2425 New Holland Pike Lancaster PA 17601
FedEx account # 1077-8526-4

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Arcadis	Date/Time: 6/12/14 1730	Received by:	Company: SYR	Date/Time: 6.13.14, 18:20
Relinquished by:	Company: SYR	Date/Time: 6.12.14 1800	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: FELLE	Date/Time: 6.13.14 0940

eurofins | Lancaster Laboratories Environmental

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Sample Description: **BCP-SS-2019A(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 14:50
SDG#: BMS72-01

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084484
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0051	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0088	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0036	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0036	1
10885	PCB-1254	11097-69-1	0.014 JD1	0.019	0.0036	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0054	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0036	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0036	1
10885	Total PCBs[1]	1336-36-3	0.014 J	0.019	0.0036	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	9.6	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:07	Covenant Mutuku	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	191700037A	06/20/2019 11:00	Joshua S Ruth	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **BCP-SS-2019A(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:00
SDG#: BMS72-02

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084485
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0050	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0088	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0036	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0036	1
10885	PCB-1254	11097-69-1	0.010 JD1	0.019	0.0036	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0054	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0036	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0036	1
10885	Total PCBs[1]	1336-36-3	0.010 J	0.019	0.0036	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.1	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:18	Covenant Mutuku	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	191700037A	06/20/2019 11:00	Joshua S Ruth	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **BCP-SS-2019B(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:10
SDG#: BMS72-03

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084486
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0051	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0089	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.0094 JD1	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.0094 J	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.5	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:28	Covenant Mutuku	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	191700037A	06/20/2019 11:00	Joshua S Ruth	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **BCP-SS-2019B(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:20
SDG#: BMS72-04

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084487
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0051	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0089	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.0070 JD1	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.0070 J	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	10.7	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:39	Covenant Mutuku	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	191700037A	06/20/2019 11:00	Joshua S Ruth	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **BCP-SS-2019C(0.25-1.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:30
SDG#: BMS72-05

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084488
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0052	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0090	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.091 D1	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.091	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	11.0	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 17:49	Covenant Mutuku	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	191700037A	06/20/2019 11:00	Joshua S Ruth	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **BCP-SS-2019(1.0-2.0) Grab Soil**
BMS Bldg 22 Area IRM

Project Name: **Bristol-Myers Squibb**

Submittal Date/Time: 06/13/2019 09:50
Collection Date/Time: 06/12/2019 15:40
SDG#: BMS72-08

ARCADIS U.S., Inc.
ELLE Sample #: SW 1084491
ELLE Group #: 2049748
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	N.D. D1	0.019	0.0040	1
10885	PCB-1221	11104-28-2	N.D. D1	0.019	0.0052	1
10885	PCB-1232	11141-16-5	N.D. D1	0.019	0.0090	1
10885	PCB-1242	53469-21-9	N.D. D1	0.019	0.0037	1
10885	PCB-1248	12672-29-6	N.D. D1	0.019	0.0037	1
10885	PCB-1254	11097-69-1	0.014 JD2	0.019	0.0037	1
10885	PCB-1260	11096-82-5	N.D. D1	0.019	0.0055	1
10885	PCB-1262	37324-23-5	N.D. D1	0.019	0.0037	1
10885	PCB-1268	11100-14-4	N.D. D1	0.019	0.0037	1
10885	Total PCBs[1]	1336-36-3	0.014 J	0.019	0.0037	1
Wet Chemistry	**SM 2540 G-2011 %Moisture Calc**		**%**	**%**	**%**	
00111	Moisture[1]	n.a.	11.3	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	191700037A	06/24/2019 18:21	Covenant Mutuku	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	191700037A	06/20/2019 11:00	Joshua S Ruth	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19172820002B	06/22/2019 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

ATTACHMENT 5

Waste Disposal Documentation

Site Address: 6000 Thompson Road
East Syracuse,NY 13057

U3SQ

SC PPW 3/12/2019

1141584

WORK ORDER NO. SY 1902986124-003

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4353

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY W M High Acres Landfill			SHIPPER Bristol-Myers Squibb Company		
FACILITY EPA ID # NYSDEC8087076 5			SHIPPER EPA ID # NYD002230902		
ADDRESS 425 Perinton Parkway			ADDRESS PO Box 4755		
CITY Fairport	STATE NY	ZIP 14450	CITY Syracuse	STATE NY	ZIP 13221

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1-25Y	CM		A. NON DOT REGULATED MATERIAL	EST 15	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS

A.120917NY EMERGENCY PHONE #: (800)483-3718 GENERATOR: Bristol-Myers Squibb Company

WM PO# W19114717 3 container # CHRT 24864

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Anne H Locke	Anne H. Locke	7-31-19
TRANSPORTER 1	GERALD GRAVEN	Gerald Graven	7-31-19
TRANSPORTER 2			
RECEIVED BY	[illegible]	[illegible]	8/3/19

2

CHI 107

Site Address: 6000 Thompson Road
East Syracuse, NY 13057

4353

SC PPW 3/12/2019

1141585

WORK ORDER NO. SY 1902986124-003

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4353

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

PA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY	SHIPPER
WM High Acres Landfill	Bristol-Myers Squibb Company
FACILITY EPA ID # NYSDEC8087076	SHIPPER EPA ID # NYD002230902
ADDRESS 425 Perinton Parkway	ADDRESS PO Box 4755
CITY Fairport STATE NY ZIP 14450	CITY Syracuse STATE NY ZIP 13221

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1-25Y	CM		A. NON DOT REGULATED MATERIAL	EST 15	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS

EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Bristol-Myers Squibb Company

A.120917NY Wm PO# WA9147173 Containers # CHRT 27269

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Anne H Locke	SIGN [signature]	DATE 7-31-19
TRANSPORTER 1	PRINT Gerald Graven	SIGN [signature]	DATE 7-31-19
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT [illegible]	SIGN [signature]	DATE 8/1/19

2

CHI 107

Site Address: 6000 Thompson Road
East Syracuse, NY 13057

SC PPW 3/12/2019

1141586

WORK ORDER NO. SY 1902986124-003

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4353

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY	SHIPPER
WM I High Acres Landfill	Bristol-Myers Squibb Company
FACILITY EPA ID # NYSDEC8087076	SHIPPER EPA ID # NYD002230902
ADDRESS 425 Perinton Parkway	ADDRESS PO Box 4755
CITY Fairport STATE NY ZIP 14450	CITY Syracuse STATE NY ZIP 13221

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1-25Y	CM		A. NON DOT REGULATED MATERIAL	EST 15	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS

A.120917NY WM PO# W19114717 3 EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Bristol-Myers Squibb Company container# CHRT 25622

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Anne H Locke	SIGN	Anne H Locke	DATE 8-1-19
TRANSPORTER 1	PRINT GERALD GRAVEN	SIGN	Gerald Graven	DATE 8-1-19
TRANSPORTER 2	PRINT	SIGN		DATE
RECEIVED BY	PRINT	SIGN		DATE 8/1/19

Site Address: 6000 Thompson Road
East Syracuse, NY 13057

4

SC PPW 3/12/2019

1141587

WORK ORDER NO. SY1902986124-003

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc VEHICLE ID # 4353

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY	SHIPPER
WMI High Acres Landfill	Bristol-Myers Squibb Company
FACILITY EPA ID # NYSDEC8087076	SHIPPER EPA ID # NYD002230902
ADDRESS 425 Perinton Parkway	ADDRESS PO Box 4755
CITY Fairport STATE NY ZIP 14450	CITY Syracuse STATE NY ZIP 13221

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1-25Y	CM		A. NON DOT REGULATED MATERIAL	EST 15	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS

A.120917NY Wm PO# W191147173 EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Bristol-Myers Squibb Company Container # CHGT 27502

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Anne H Locke	Anne H Locke	8-1-19
TRANSPORTER 1	GERALD GRAVEN	Gerald Graven	8-1-19
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE 8-1-19

2

CHI 107

Site Address: 6000 Thompson Road
East Syracuse, NY 13057

4353

5

SC PPW 3/12/2019

1141588

DOCUMENT NO.

WORK ORDER NO. SY 1902986124-003

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc.

VEHICLE ID # 4353

EPA ID # MAD039322250

TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2

VEHICLE ID #

EPA ID #

TRANS. 2 PHONE

DESIGNATED FACILITY [illegible] Landfill	SHIPPER [illegible]-Myers Squibb Company
FACILITY EPA ID # [illegible]8087076 5	SHIPPER EPA ID # [illegible]0902
ADDRESS 425 Perinton Parkway	ADDRESS PO Box 4755
CITY Fairport STATE NY ZIP 14450	CITY Syracuse STATE NY ZIP 13221

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1-25Y	CM		A. NON DOT REGULATED MATERIAL	EST 15	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS
EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Bristol-Myers Squibb Company
A.120917NY WM PO# W19114717 3 container # CHRT 25015

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Ann M Locke	[signature]	8-2-19
TRANSPORTER 1	Gerald Graven	[signature]	8-1-19
TRANSPORTER 2			
RECEIVED BY	[illegible]	[signature]	8/2/19

2

CHI 107

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 1298372

Customer Name	CLEANHARBORSAFETYKLEEN-120917	Carrier	CLN CLEAN HARBORS	
Ticket Date	07/31/2019	Vehicle#	4353	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0007715	
State Waste Code		Gen EPA ID	N/A	
Manifest	1141584	Grid	CELL 12A	
Destination				
PO	REQUIRED			
Profile	120917NY (SOILS BMS BLDG 22 AREA IRM)			
Generator	190-BRISTOLMYERSSQUIBB BRISTOL-MYERS SQUIBB			

	Time	Scale	Operator	Inbound		
In	07/31/2019 14:55	A_Scale_1	SD #604682		Gross	67780 lb
Out	07/31/2019 15:20	B_Scale_2	SD #604682		Tare	37660 lb
					Net	30120 lb
					Tons	15.06

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	15.06	Tons				ONO
2	EVF-P6-Environment	100		%				ONO

Total Fees

Total Ticket

Driver's Signature_____

404WM

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 1298543

Customer Name CLEANHARBORSAFETYKLEEN-120917
Ticket Date 08/01/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 1141585
Destination
PO 1) W19147173 2) W19147173
Profile 120917N% (SOILS BMS BLDG 22 AREA IRM)
Generator 190-BRISTOLMYERSSQUIBB BRISTOL-MYERS SQUIBB

Carrier CLN CLEAN HARBORS
Vehicle# 4353
Container
Driver
Check#
Billing # 0007715
Gen EPA ID N/A
Grid CELL 12A

Volume

	Time	Scale	Operator	Inbound		
In	08/01/2019 09:34	A_Scale_1	SD #604682		Gross	64980 lb
Out	08/01/2019 10:20	B_Scale_2	SD #604682		Tare	37900 lb
					Net	27080 lb
					Tons	13.54

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	13.54	Tons				ONO
2	EVF-P6-Environment	100		%				ONO

Total Fees

Total Ticket

Driver's Signature _____

404WM

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 1298706

Customer Name CLEANHARBORSAFETYKLEEN-120917
Ticket Date 08/01/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 1141586
Destination
PO 1) W191147173 2) W191147173
Profile 120917N¥ (SOILS BMS BLDG 22 AREA IRM)
Generator 190-BRISTOLMYERSSQUIBB BRISTOL-MYERS SQUIBB

Carrier CLN CLEAN HARBORS
Vehicle# 4353
Container
Driver
Check#
Billing # 0007715
Gen EPA ID N/A
Grid CELL 12A

Volume

	Time	Scale	Operator	Inbound		
In	08/01/2019 14:25	A_Scale_1	SD #604682		Gross	67500 lb
Out	08/01/2019 14:55	B_Scale_2	SD #604682		Tare	36960 lb
					Net	30540 lb
					Tons	15.27

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	15.27	Tons				ONO
2	EVF-P6-Environment	100		%				ONO

Total Fees

Total Ticket

Driver's Signature _____

404WM

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 1298749

Customer Name CLEANHARBORSAFETYKLEEN-120917
Ticket Date 08/02/2019
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 1141587
Destination
PO 1) 191147173 2) 191147173
Profile 120917NY (SOILS BMS BLDG 22 AREA IRM)
Generator 190-BRISTOLMYERSSQUIBB BRISTOL-MYERS SQUIBB

Carrier CLN CLEAN HARBORS
Vehicle# 4353
Container
Driver
Check#
Billing # 0007715
Gen EPA ID N/A
Grid CELL 12A

Volume

	Time	Scale	Operator	Inbound		
In	08/02/2019 08:41	A_Scale_1	SD #604682		Gross	68920 lb
Out	08/02/2019 09:09	B_Scale_2	SD #604682		Tare	38180 lb
					Net	30740 lb
					Tons	15.37

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	15.37	Tons				ONO
2	EVF-P6-Environment	100		%				ONO

Total Fees

Total Ticket

Driver's Signature_____

404WM

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 1298848

Customer Name CLEANHARBORSAFETYKLEEN-120917 Carrier CLN CLEAN HARBORS
Ticket Date 08/02/2019 Vehicle# 4353 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0007715
State Waste Code Gen EPA ID N/A
Manifest 1141588 Grid CELL 12A
Destination
PO 1) 191147173 2) 191147173
Profile 120917NY (SOILS BMS BLDG 22 AREA IRM)
Generator 190-BRISTOLMYERSSQUIBB BRISTOL-MYERS SQUIBB

	Time	Scale	Operator	Inbound		
In	08/02/2019 13:52	A_Scale_1	SD #604682		Gross	64300 lb
Out	08/02/2019 14:29	B_Scale_2	SD #604682		Tare	36980 lb
					Net	27320 lb
					Tons	13.66

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	13.66	Tons				ONO
2	EVF-P6-Environment	100		%				ONO

Total Fees
Total Ticket

Driver's Signature_____

404WM

Site Address: 6000 Thompson Road
East Syracuse, NY 13057

SC PPW 12/9/2008

1241558

WORK ORDER NO 21905782635

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 FRANK'S VACUUM TRUCK SERVICE INC. VEHICLE ID # 800/259-B

EPA ID # NYD982792814 TRANS. 2 PHONE 716-284-2134

DESIGNATED FACILITY			SHIPPER		
Clean Harbors Environmental Services, Inc.			Bristol-Myers Squibb Company		
FACILITY EPA ID #			SHIPPER EPA ID #		
OHD000724153			NYD002230902		
ADDRESS			ADDRESS		
2900 Rockefeller Avenue			PO Box 4755		
CITY	STATE	ZIP	CITY	STATE	ZIP
Cleveland	OH	44115	Syracuse	NY	13221

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
7 ~~8~~ 3X55	Dm		A. NON HAZARDOUS, NON D.O.T. REGULATED LIQUID	3000	P
1X85	Dm		B. Non Hazardous, Non D.O.T. Regulated Liquid	400	P
			C.		
			D. Reject due to nonconformance - excessive solids Line 1 3x55 Dm Line 2 1x85 Dm		
			E. Ship to Clean Harbors El Dorado LLC ARD069748192		
			F. 309 American Circle El Dorado, AR 71730		
			G. (870) -863-7173		
			H.		

SPECIAL HANDLING INSTRUCTIONS A.CH1923203 B. CH1923203 EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Bristol-Myers Squibb Company

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Anne H Locke	Anne H Locke	10-28-19
TRANSPORTER 1	Walt St. Pierre		10-28-19
TRANSPORTER 2	MARTIN T. NOONE	~~SIGN~~	11-4-19
RECEIVED BY	Frank G. Hegarty		11-11-19

CHI 107