ARCADIS Design & Consultancy for natural and built assets

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Subject:
DCAP End of Life Project in Building 310 at GLOBALFOUNDRIES US 2 LLC Fab 10 Facility, Hopewell Junction, NY

ENVIRONMENTAL

Date:
November 7, 2016

Contact:
Fred Kirschenheiter

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Our ref:
B0000130.0005

Dear Mr. Pepe:

This Certification Letter has been prepared by Arcadis of New York, Inc. (Arcadis) to document the closure of solid waste management units (SWMUs) as part of the IBM DCAP End of Life (EOL) Asset Retirement Obligation (ARO) Project (the "Project") in Building 310 at the GLOBALFOUNDRIES US 2 LLC Fab 10 Facility, Hopewell Junction, New York. The location of Building 310 within the Fab 10 facility is shown on Figure 1. DCAP refers to a type of multilayer ceramic capacitor for microelectronics. The SWMUs that were closed or partially closed during the Project through September 2016 included accessible components of the fluoride/heavy metals lift stations, industrial wastewater lift stations, solvent waste lift stations, and associated transfer piping within Building 310. The Project involved decontamination and removal of lift stations that received wastewater or solvent waste from process tools, wet benches, sinks and water heating equipment in DCAP fabrication and testing areas. The project also included removal of associated waste transfer piping throughout the DCAP areas as well as removal of piping from previously decommissioned areas within Building 310 that were connected to the same wastewater transfer systems. These lift stations and waste transfer piping systems are identified as SWMUs in accordance with IBM's Permit Module II 6 NYCRR Part 373 Hazardous Waste Management Permit.

On July 1, 2015, the IBM East Fishkill facility was acquired by GLOBALFOUNDRIES US 2 LLC (GLOBALFOUNDRIES). The SWMU closure and documentation activities summarized in this Certification Letter were implemented by IBM under their ARO (Asset Retirement Obligation) with the assistance of GLOBALFOUNDRIES. Both corporations are referenced in this letter report.

The proposed approach to SWMU closure for the DCAP Project in Building 310 was summarized in a February 2, 2016 memorandum work plan prepared by Arcadis for GLOBALFOUNDRIES and IBM ("the Plan"). The Plan was submitted by IBM to New York State Department of Environmental Conservation (NYSDEC) and conditional approval of the Plan was issued to IBM on April 26, 2016 in a letter to Dean Chartrand, IBM Corporate Environmental Affairs from Alex G. Czuhanich, Project Manager for the NYSDEC Remedial Section B, Remedial Bureau E, Division of Environmental Remediation. Arcadis prepared a response memorandum to GLOBALFOUNDRIES dated June 30, 2016, accepting NYSDEC's comments by reference as part of the final work plan, with clerical corrections to the SWMU identifications contained in the conditional approval letter. That memorandum was provided to Mr. Czuhanich by IBM via e-mail on August 4, 2016.

OVERVIEW

SWMUs in Building 310 (Figure 1) were identified by IBM prior to initiation of the Project, in accordance with IBM's Permit Module II, 6 NYCRR Part 373 Hazardous Waste Management Permit. A list of the active, inactive, inactive/closed and removed SWMUs associated with Building 310 prior to initiation of the Project was included as Table 1 in the Plan. The active SWMUs were to be evaluated to confirm which SWMUs would be closed as part of the Project.

When the Plan was prepared, the active SWMU list included system SWMUs (lift station and waste transfer piping systems) as well as tanks. The lift station system SWMUs B/310/LS FL, B/310 LS IW, and B/3210 LS SO consist of multiple lift stations identified by waste handling type (fluoride/heavy metal [FL], industrial wastewater [IW] and solvent [SO]). To document SWMU removal/closure, the individual lift stations were inventoried and listed as components of each lift station system SWMU. The inventoried SWMU components included both active and previously removed lift stations (removed prior to November 2015). The final inventory was added to the enclosed Table 1 for removal tracking and documentation during the Project. The Project areas referenced on Table 1 are identified by number on Figure 2. The Building 310 SWMUs and SWMU components that remained active at the end of the Project (certain tanks and lift stations), and the system SWMUs that were only partially removed, retain an "Active" status on Table 1.

Collectively, SWMU closure completed or partially completed during the Project included:

- Decontamination and removal of deactivated components of the:
    - B/310 LS FL: Fluoride/Heavy Metals Lift Stations
    - B/310 LS IW: Industrial Wastewater Lift Stations
    - B/310 LS SO: Solvent Waste Lift Stations
    - BB310-FL (2): Fluoride/Heavy Metals Wastewater Transfer Piping
    - B310-IW (2): Industrial Wastewater Transfer Piping
    - B310-SO (2): Solvent Waste Transfer Piping
- Cleaning and verifying decontamination of secondary containment pits and trenches associated with SWMU lift station components.
- Decontamination, demolition and removal of SWMU# 3135 consisting of one 300-gallon PVC lift station tank in a secondary containment pit that had serviced a previously removed process line.

- Documenting the location of previously removed SWMU lift stations, which were identified based on remaining name plates, control panels, and/or secondary containment pits and trenches.

- Cleaning and verifying decontamination of secondary containment pits and trenches associated with the identified previously removed SWMU lift station components.

Closure of these systems during the Project was accomplished by decontamination and removal of each SWMU or SWMU component, and decontamination of pits and trenches associated with previously removed lift stations, unless otherwise noted in this report.

The SWMU closure activities implemented in support of the Project included:

- A reconnaissance of the active SWMUs to determine which SWMUs will be closed, document the existing conditions of the SWMUs, and formulate the final decontamination and/or disposition approach for each SWMU.

- Decontamination of the SWMU systems for subsequent recycling or disposal, verified by a Third Party (Arcadis).

- Preparation of this Certification Letter to document which SWMUs within the Project area have been closed.

SWMU RECONNAISSANCE

The initial step of the closure approach consisted of field reconnaissance of the listed active SWMUs within the Project area. To develop a complete inventory of lift stations included in the SWMUs, the pump maintenance database was used to develop a list of active lift stations. Room-by-room reconnaissance was completed to verify lift station locations. Several inactive and previously removed lift stations were identified during the reconnaissance efforts as evidenced by identification placards on walls, lift station pump controls, and/or remaining lift station riser pipes. Several secondary containment pits for previously removed lift stations, surrounded or covered with safety barriers, were located and earmarked for final decontamination and inspection. Singular SWMUs and SWMUs consisting of multiple components (lift stations) were inventoried and each component was assigned an index number to associate with closure documentation.

Arcadis prepared the final inventory database and photographed the SWMUs and SWMU components in Building 310 that were scheduled to be closed or verified as closed during the Project. This database was reviewed by GLOBALFOUNDRIES and was used as a guide throughout the closure process, and updated periodically as SWMUs or SWMU components were closed.

SWMUs and SWMU components in Building 310 that were inventoried during the Project included:

- Individual lift stations identified as components of the fluoride/heavy metals, industrial wastewater and solvent waste lift station SWMUs. These include previously removed lift stations that had been located either above the slab or within secondary containment pits or trenches, lift stations removed during the Project, and active lift stations remaining in service as of September 2016.

- SWMUs with individual Unit ID #s including:
    - 3129 – Active 7,000-gal. Above-ground industrial wastewater lift station tank.
    - 3134 – Active 7,000-gal. Above-ground industrial wastewater lift station tank.
    - 3135 – Inactive 300-gal. Fluoride/heavy metals lift station tank (removal completed during the Project).
    - 4038 – Active vapor-liquid separator for contaminated groundwater soil vapor extraction system.
- SWMUs representing entire waste transfer piping systems (fluoride/heavy metal, industrial and waste solvent transfer systems).

The single SWMU identified as "Fluoride/Heavy Metals Lift Stations in Building 310 (B/310 LS FL)" includes all lift stations that may receive fluoride or metal wastewaters, or other compatible non-solvent wastewaters. These lift stations are routed to the active onsite fluoride/heavy metals treatment facility at Building 386. Within the Project Area, the observed wastewater sources were hooded wet benches and a bottle wash station where hydrofluoric acid (HF) and chromates were handled. All "LS FL" lift stations in the Project area are small polyethylene pump tanks (typically 15-35 gallons), either within metal drip pans sitting on tiled floors or within concrete pits protected with chemical resistant coatings. Other "LS FL" lift stations listed on Table 1 were previously removed.

The single SWMU identified as "Industrial Wastewater Lift Stations in Building 310 (B/310 LS IW)" includes all acid drain lift stations that may receive wastewaters not designated for fluoride/heavy metals treatment. The acid drain systems in Building 310 are routed to the industrial wastewater treatment facility at Building 312. Within the Project Area, the wastewater sources included industrial wash sinks, various eyewash stations, wet benches where acids other than HF were used, high temperature tools (condensate), and hot water conditioning units. Most "LS IW" lift stations within the Project area are small polyethylene pump tanks (typically 15-50 gallons), either within metal drip pans sitting on tiled floors or within concrete pits protected with chemical resistant coatings, along with some smaller 2-gallon polyethylene or steel pump tanks sitting on tiled floors or platforms. Other "LS IW" lift stations listed on Table 1 were previously removed.

The single SWMU identified as "Solvent Waste Lift Stations in Building 310 (B/310 LS SO) consisted of two 30-gallon stainless steel tanks within steel drip pans on tiled floors at the beginning of the Project. Other "LS SO" lift stations listed on Table 1 were previously removed.

The final inventory of SWMUs and SWMU components that were closed or partially closed during the Project is provided on the enclosed Table 1. This table is sorted by SWMU ID#, Project area location number, and individual index numbers. The Project area locations are identified by number on Figure 2.

In addition, a checklist was used to document the relevant SWMU details, inspection and sampling results on a pass/fail basis, disposal and recycling disposition, SWMU status change date, and cross-reference to the associated SWMU verification data tables. Notes were added to checklists to summarize exceptions to the closure objectives, where applicable. The completed checklists, along with documentation photographs are provided in *Attachment A*.

SWMU CLOSURE ACTIVITIES

At the onset of the Project, the GLOBALFOUNDRIES Facilities Engineering Team, who implemented the project for IBM, was not aware of any previous environmental releases associated with any of the SWMU components to be closed under this Project. For the SWMUs removed during the project, Arcadis found no visible evidence of damaged lift stations or waste transfer piping systems.

During the cleaning and subsequent inspection of secondary containment pits and trenches associated with previously removed lift stations, Arcadis observed that the secondary containment pits and trenches were generally in good condition with intact chemical resistant coatings or stainless steel liners, except for secondary containment trenches in two chemical dispensing rooms as discussed under the "Exceptions" subheading.

Decontamination activities implemented by GLOBALFOUNDRIES and its contractors, and verified by Arcadis, included the following steps:

- Preparing the work area for decontamination activities by disconnecting electrical and compressed air feeds, establishing exclusion zones in accordance with the contractor's Health and Safety Plan, and preparing the work areas for drained fluid and rinse water containment and collection. Decontamination, demolition and removal of all tools and SWMU components was performed by Stryker DES (Stryker). Techtron Environmental, Inc. (Techtron), managed the decontamination fluids and solids collected by Stryker. Techtron decontaminated the 300-gallon tank from SWMU #3135, certain segments of fluoride/heavy metal waste transfer piping and most of the solvent waste transfer piping removed by Stryker. These decontamination services were performed in existing facility wash bays in other buildings designated and managed for collection of the respective wastewaters.

- Removing wastewater and accumulated residues, if any, from SWMU components by pumping, flushing, and/or use of hand tools. All solid waste generated by SWMU decommissioning was placed in appropriate containers and collected by Techtron for waste profiling by GLOBALFOUNDRIES and subsequent onsite treatment or offsite disposal based on the appropriate waste profiles.

- Decontaminating SWMU component surfaces using treated facility water for rinsing components or wiping surfaces with wet rags. Treated facility water is a clean non-potable water supply to eyewash stations, sinks, lavatories and general facility hose spigots. Water is the most appropriate cleaning agent for removing residual acid and inorganic sediment residue expected in these lift stations. Where additional measures were needed to complete decontamination, cleaning agents such as Simple Green® and/or acid neutralizers (alkaline detergents) were used. Wastewater generated by decontamination activities was collected by Techtron for treatment at the appropriate onsite wastewater treatment facility.

- The SWMU lift stations were disassembled and the piping systems were cut into manageable sections for decontamination and testing and rendered unusable. Scrap metal from the decontaminated SWMUs was separated by metal type and shipped offsite for recycling. Decontaminated non-metal components of the SWMUs (e.g., polyethylene tanks and PVC

piping) were cut up and containerized for off-site disposal as a nonhazardous waste at a permitted solid waste landfill. Table 2 lists the recycling and disposal facilities utilized for the Project. Hazardous wastes generated from SWMU closure (e.g., solvent waste pipe segments that could not be cleaned to a debris free condition) were managed by GLOBALFOUNDRIES for offsite disposal based on waste classification.

THIRD PARTY OBSERVATION AND TESTING

Arcadis provided third party observation and testing to verify that the SWMU closure activities were completed as planned, to document exceptions, and provide periodic progress reports to GLOBALFOUNDRIES.

Arcadis utilized the following methods to verify closure and removal of Building 310 SWMUs:

- ARCADIS inspected the SWMU and SWMU components listed in Table 1 to verify that the containers and systems were adequately drained of residual fluids and solids.

- Onsite decontamination activities were observed and documented by an Arcadis field representative to confirm clean closure and removal.

- Decontamination verification was performed as follows:

    - Arcadis conducted representative real-time testing of Industrial Waste SWMU components (lift station tanks, pits, waste transfer piping), which had contained potentially corrosive (D002) hazardous characteristic wastewaters. Testing with Hydrion® test strips confirmed the pH of component surfaces and pipe outlets upon light wetting with facility water. Facility water consistently exhibited a pH of 5.5. Decontamination efforts were considered complete if the test results for pH on the decontaminated surfaces were within the range of 5.0-8.0. If the pH was outside this range, the SWMU components were re-cleaned until decontamination objectives were achieved. The same process was used for non-hazardous wastewater lift stations that discharged to the industrial wastewater transfer piping system.

    - For SWMUs that may have handled D007 hazardous waste (characteristic of toxicity for chromium – specifically SWMUs 3135, B/310 LS FL, and B/310-FL (2) or may have handled F001, F002, F003 or F005 hazardous waste (spent chlorinated and/or non-chlorinated solvents – specifically SWMUs B/310 LS SO, B/310-SO (2), decontamination was considered complete when the SWMU surfaces were cleaned to a clean debris surface as defined in “6NYCRR Part 376.4(g) (Table 1, Footnote 3)”:

        - *"Clean debris surface" means the surface, when viewed without magnification, shall be free of all visible contaminated soil and hazardous waste except that residual staining from soil and waste consisting of light shadows, slight streaks, or minor discolorations, and soil and waste in cracks, crevices, and pits may be present provided that such staining and waste and soil in cracks, crevices, and pits shall be limited to no more than 5% of each square inch of surface area.”*

- Verification of clean debris surface was performed for the fluoride/heavy metal and solvent lift stations, tanks, and associated secondary containment structures based on post-decontamination visual inspection supported by record photographs for each. Lift station covers and pumps were removed to complete cleaning and inspection of all surfaces. Containment pits were washed and inspected for visible integrity and debris-free surface verification.

- For stainless steel and carbon steel solvent waste transfer piping (B/310-SO (2)), both primary waste transfer piping and secondary containment piping, a rigorous pressure wash of the interior surface was used to decontaminate cut sections. Pipe inspection cameras were used to conduct post-decontamination inspection of the interior surfaces of individual decontaminated 6-10 ft. lengths of the piping to verify that the debris-free surface criterion was met. Inspection was supported by representative photographs. Shorter sections were inspected by looking through the pipe ends with aid of an LED flashlight. Decontaminated steel piping passing clean debris surface inspection was released for recycling. Piping sections that failed the inspection (some carbon steel pipe) or sections that could not be fully cleaned and inspected (e.g., clogged valves and piping), were set aside and placed in appropriate containers for subsequent hazardous waste profiling and disposal managed by GLOBALFOUNDRIES.

- For fluoride/heavy metal wastewater transfer piping (B/310-FL (2)), Arcadis observed small sections of piping (smooth PVC typically up to 6-ft lengths) with visual inspection as viewed through the cut pipe ends with LED flashlights.

- Because the fluoride/heavy metal SWMUs could have managed acid or base wastewaters containing metals, Arcadis also performed pH testing in addition to debris-free inspection on the decontaminated fluoride/heavy metal tanks, secondary containment pits, lift stations and piping in the same manner as the Industrial Wastewater SWMUs.

Post-decontamination test results were recorded on data tables organized by associated Project areas as part of the overall Project documentation. All SWMU verification data tables are provided in *Attachment B,* except for the sampling results discussed under the “Exceptions” subheading. The data tables provide a total of 2,290 final pH measurements recorded for the SWMUs and SWMU components closed and removed during the Project. Based on Arcadis observations of debris-free conditions and supporting field data, no additional testing was necessary to release the decontaminated SWMU scrap metal for recycling or to release decontaminated plastics for disposal as non-hazardous waste, no longer subject to RCRA regulation.

The final disposition of each SWMU and component listed on Table 1 is identified in the checklists (*Attachment A*), along with notations regarding any exceptions to the verification process or acceptance criteria. Details on exceptions are provided in the Exceptions summary below.

EXCEPTIONS

The exceptions to the Plan encountered during implementation were as follows:

- Trenches associated with Solvent Lift Stations No. 11 and No. 13 in the Area 13 solvent dispensing room (components of B/310 LS SO) were cleaned to a debris free condition, which exposed minor to significant visible erosion of the protective epoxy cement trench liner. These 6-inch deep trenches provided secondary containment for steel drain pipes that emptied into previously removed lift station sump tanks set within lined concrete sumps pits. They also served as trench drains around the perimeter of each room, which emptied into to the lift stations. During the Project, Stryker cleaned the concrete sump containment pits and the floor trenches to a debris-free condition. That cleaning revealed visible evidence of potentially compromised trench linings. The cleaned lining has the appearance of a porous surface with some of the liner surface dislodged by cleaning. To assess the liner for evidences of residual contamination, Arcadis collected 6 representative 3-inch deep core samples of the eroded epoxy cement liner material through to the underlying concrete slab, and one background sample from the adjacent room floor, and had them analyzed for the four non-halogenated solvents that had been dispensed in the room. The analysis results are included in *Attachment C* and summarized in Table C-1. Only one core sample exhibited solvents, consisting of a trace concentration (17 mg/kg) of isopropyl alcohol (IPA). This location also exhibited the most significant visible liner erosion. Based on this result, the liner was scoured out along a 3-ft length at the affected location exhibiting IPA to expose the underlying concrete for sampling. Two additional samples were subsequently collected 3 inches deep into the underlying concrete at this location. Liner failure was confirmed within a 3-ft long section of the trench based on the presence of trace IPA at a concentration of 45 mg/kg (45 ppm) in 1 of the 2 samples of the concrete directly beneath the compromised liner (see sample SRT-7 in Table C-1). Further investigation will be completed when the remaining inaccessible SWMUs are investigated in the future.

- Trenches associated with Fluoride/Heavy Metal Lift Station No. 28 in the Area 13 corrosives dispensing room (component of B/310 LS FL) were cleaned to a debris free condition, which exposed minor erosion of the protective epoxy cement trench liner. These 6-inch deep trenches provided secondary containment for steel drain pipes that emptied into a high-density polyethylene (HDPE) sump tank within a lined concrete sump pit. They also served as trench drains around the perimeter of the corrosives room, which emptied into to the HDPE lift station. The concrete sump containment pit and the trench were cleaned to a debris-free condition by Stryker. That cleaning revealed visible evidence of potentially compromised trench linings, although to a far lesser degree than the solvent room. Arcadis collected 4 representative 3-inch deep core samples of the eroded liner material through to the underlying concrete slab, and one background sample from the adjacent room floor, and had them analyzed for the eight RCRA metals, pH and conventional inorganic constituents representative of the acids and bases that been dispensed in the room. The analysis results are included in *Attachment C* and summarized in Table C-2. Comparison of the metals and pH results to environmental indicators of potential RCRA wastes and indicators of unrestricted use soil (Attachment C, Table C-3) confirmed clean closure with no evidence of potential hazardous waste within the liner. No further investigation is needed to close this component.

FINAL SWMU STATUS CHANGE

The status changes for B310 SWMUs, as listed on Table 1, are summarized as follows:

- Unit ID # 3135 – Removed
- B/310 LS FL – Partially removed (18 lift stations removed to date)
- B/310 LS IW – Partially Removed (62 lift stations removed to date)
- B/310 LS SO – Partially Removed (13 lift stations removed to date)
- B310 –SO (2) – Partially Removed Above-ground Piping System
- B310 –FL (2) – Partially Removed Above-ground Piping System
- B310 –IW (2) – Partially Removed Above-ground Piping System

Following NYSDEC acceptance of this certification letter, IBM/GLOBALFOUNDRIES will update the status of the SWMU database to reflect the status changes listed on the attached Table 1.

The next periodic RCRA report submitted to the NYSDEC in accordance with Module II of the 6 NYCRR Part 373 Hazardous Waste Management Permit will include the updated SWMU database.

CERTIFICATION STATEMENT

I, Frederick J. Kirschenheiter, P.E., as a licensed Professional Engineer in the State of New York, hereby certify that the Solid Waste Management Units (SWMUs) or their components listed in the attached Table 1, that were removed, partially removed or decontaminated in place during the Project in Building 310 at the GLOBALFOUNDRIES US 2 LLC Fab 10 Facility in Hopewell Junction, New York have been closed, partially closed, identified as previously removed (prior to the Project), or deferred, with exceptions noted herein, in accordance with the SWMU closure approach presented in Arcadis' February 2, 2016 memorandum work plan, as conditionally approved and amended ("the Plan"). The Plan was submitted by IBM to the NYSDEC and conditionally approved in an April 26, 2016 letter from the NYSDEC to IBM. The Plan was amended by Arcadis' June 30, 2016 memorandum which accepted the NYSDEC's conditional approval of the Plan.

This certification is based on Arcadis' on-site observation during implementation of the SWMU closure activities. I also certify that, to the best of my knowledge, this Certification Letter accurately reflects the SWMU closure activities that were conducted.

Please do not hesitate to contact me if you should have any questions or need additional information regarding this Certification Letter.

Sincerely,

Arcadis of New York, Inc.



Fred Kirschenheiter. P.E.

Senior Vice President

New York P.E. No. 068859-1

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R. Kapp, Arcadis
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Enclosures:
Table 1
Table 2
Figures
Attachment A
Attachment B
Attachment C

TABLES



Table 1

Solid Waste Management Units (SWMUs and SWMU Components Closed During DCAP Packaging End Of Life Project, Status and Descriptions



Table 1
Active and Certified Removed Solid Waste Management Units - Building 310
September 2016

SWMU Closure Report
DCAP End of Life Project
GLOBALFOUNRIES US 2 LLC Fab 10 Facility
Hopewell Junction, New York

Note: Initial excerpt from Part 373 Module II 20110606 (pages II-2 through II-22 accessible SWMUS and Page II-36 for inaccessible SWMUs)

Table II-1
Solid Waste Management Units

UNIT ID #	DESCRIPTION	LOCATION	STATUS	GW REMEDIATION AREA?*	RCRA STATUS	SWMU Count	DESCRIPTION (TANK, SUMP, CONTAINMENT, SYSTEM; SIZE; CONTENT)	SWMU Checklist Index Number	DCAP EOL Work Area	Total SWMU Components for 100% Removal in DCAP EOL Project	Comments	Total SWMU and SWMU Components Indexed	Finished
3129	Industrial Wastewater	B/310 CRTYD PMP, **Building B310A**	Active	Area A	No Further Action *	1	Industrial Wastewater Tank #1, 7,000 gal. FRP, above ground lift station tank (for acid/industrial wastewater from B/310)	20150034	77	0	Delayed to pre-demolition 2016-2017	1	0
3134	Industrial Wastewater	B/310 CRTYD PMP, **Building B310A**	Active	Area A	No Further Action *	1	Industrial Wastewater Tank #2, 7,000 gal. FRP, above ground lift station tank (for acid/industrial wastewater from B/310)	20150035	77	0	Delayed to pre-demolition 2016-2017	1	0
3135	Fluoride/Heavy Metals Wastewater	B/310 B-24	**Removed**	Area A	No Further Action *	1	Fluoride/Heavy Metals Wastewater Lift Station, 300 gal. PVC/Crete Pump Tank (PVC tank in concrete pit), CS 3135 in Area 70. **Lift Station pump was removed prior to 11/25/2015. Covered PVC sump tank in containment pit was removed, cleaned and verified debris free and neutral on 06/8/2016. Secondary concrete pit was cleaned and verified debris free and neutral.**	20150036	70	1		1	1
4038	Contaminated Groundwater - Vapor Liquid Separator	B/310, E10/E11, 1st Floor	Active	Area A	No Further Action*	1	Vapor Liquid Separator	20150037	Near 30	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310	Active	Area A	No Further Action *	1	Fluoride/Heavy Metals Lift Stations (various, within building 310). **Individual FL lift stations within Building 310 are listed below as components of B/310 LS FL.**	20150038.0	NA	0	Portions Delayed to pre-demolition 2016-2017	NA	NA
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-4.5	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #22, Area 4. Pit was cleaned and, inspected and sampled on **1/19/2016**	20150038.1	4	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-5	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #23, Area 4-24. Pit was cleaned and, inspected and sampled on **1/20/2016**	20150038.2	4-24	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 F-19	**Removed Component**	Area A	No Further Action *	0	Fluoride Lift Station #5, Brass Tag# ECOL 2368, Area 6 **Removed 11/24/2015**	20150038.3	6	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-19	**Removed Component**	Area A	No Further Action *	0	Fluoride Lift Station #6, Brass Tag# ECOL 2369, Area 6 **Removed 1/4/2016**	20150038.4	6	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-20	**Removed Component**	Area A	No Further Action *	0	Fluoride/Heavy Metals Lift Station # 7, Brass Tag# ECOL 2372, Area 6 **Removed 11/24/2015**	20150038.5	6	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-20	**Removed Component**	Area A	No Further Action *	0	Fluoride/Heavy Metals Lift Station #8, Brass Tag# ECOL 2373, Area 6 **Removed 1/4/2016**	20150038.6	6	1		1	1

Table 1
Active and Certified Removed Solid Waste Management Units - Building 310
September 2016

SWMU Closure Report
DCAP End of Life Project
GLOBALFOUNRIES US 2 LLC Fab 10 Facility
Hopewell Junction, New York

Note: Initial excerpt from Part 373 Module II 20110606 (pages II-2 through II-22 accessible SWMUS and Page II-36 for inaccessible SWMUs)

Table II-1
Solid Waste Management Units

UNIT ID #	DESCRIPTION	LOCATION	STATUS	GW REMEDIATION AREA?*	RCRA STATUS	SWMU Count	DESCRIPTION (TANK, SUMP, CONTAINMENT, SYSTEM; SIZE; CONTENT)	SWMU Checklist Index Number	DCAP EOL Work Area	Total SWMU Components for 100% Removal in DCAP EOL Project	Comments	Total SWMU and SWMU Components Indexed	Finished
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 B-2	**Removed Component**	Area A	No Further Action *	0	Fluoride/Heavy Metals Lift Station #28, Area 13 **Removed 1/20/2016. Trench confirmed debris free and pH neutral, but failed integrity inspection on 6/6/2016 based on minor visible erosion of the epoxy cement liner. Representative core samples (July 2016) analyzed for RCRA metals confirmed clean closure, with no residual hazardous waste within trench liner and underlying concrete.**	20150038.7	13	1	No further action recommended	1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-6	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #24, Area 24. Pit was cleaned and, inspected and sampled on **1/20/2016**	20150038.8	24	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 F-8	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #4, Area 30. Pit was cleaned and, inspected and sampled on **1/19/2016**	20150038.9	30	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-9	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #15, Area 30. Pit was cleaned and, inspected and sampled on **1/19/2016**	20150038.11	30	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-8	**Removed Component**	Area A	No Further Action *	0	Previously removed Fluoride Lift Station #11, Area 30 **Removed prior to 11/25/2015**	20150038.12	30	0		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 AB-12	**Active**	Area A	No Further Action *	0	Fluoride/Heavy Metals Lift Station #26, Area 31	20150038.13	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 AC-11	**Active**	Area A	No Further Action *	0	Fluoride/Heavy Metals Lift Station #25, Area 31	20150038.14	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 G-15	**Removed Component**	Area A	No Further Action *	0	Fluoride Lift Station, Area 52 **Removed prior to 11/25/2015**	20150038.15	52	0		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 E-20	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #14, Area 60. Pit was cleaned and, inspected and sampled on **1/20/2016**	20150038.16	60	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 B-19	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station, Area 61. Pit was cleaned and, inspected and sampled on **1/18/2016**	20150038.17	61	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 E-24	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Fluoride Lift Station #13, Area 69. Pit was cleaned and, inspected and sampled on **1/18/2016**	20150038.18	69	1		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 C-24	**Removed Component**	Area A	No Further Action *	0	Fluoride Lift Station #41, Area 70 **Removed prior to 11/25/2015**	20150038.19	70	0		1	1

Table 1
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Note: Initial excerpt from Part 373 Module II 20110606 (pages II-2 through II-22 accessible SWMUS and Page II-36 for inaccessible SWMUs)

Table II-1
Solid Waste Management Units

UNIT ID #	DESCRIPTION	LOCATION	STATUS	GW REMEDIATION AREA?*	RCRA STATUS	SWMU Count	DESCRIPTION (TANK, SUMP, CONTAINMENT, SYSTEM; SIZE; CONTENT)	SWMU Checklist Index Number	DCAP EOL Work Area	Total SWMU Components for 100% Removal in DCAP EOL Project	Comments	Total SWMU and SWMU Components Indexed	Finished
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 A-27	**Removed Component**	Area A	No Further Action *	0	Fluoride Lift Station, MER/Substation Near Area 70 **Removed prior to 11/25/2015**	20150038.21	MER Near 70	0		1	1
B/310 LS FL	Fluoride/Heavy Metals Lift Stations	B/310 B-27	**Removed Component**	Area A	No Further Action *	0	Fluoride Lift Station, MER Near Area 70 **Removed prior to 11/25/2015**	20150038.22	MER Near 70	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310	Active	Area A	No Further Action *	1	Industrial Wastewater Lift Stations (various, within building 310). **Individual IW lift stations within Building 310 are listed below as components of B/310 LS IW.**	20150039.0	NA	0	Portions Delayed to pre-demolition 2016-2017	NA	NA
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-25	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station, Brass Tag # ECOL 2361, Area 1 **Removed 1/4/2016**	20150039.1	1	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-24	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station, Brass Tag # ECOL 2362, Area 1 **Removed 1/4/2016**	20150039.2	1	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 H-24	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #10, Brass Tag # ECOL 2364, Area 1 **Removed 1/20/2016**	20150039.3	1	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 H-2	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #31, Area 3. **Removed prior to 11/25/2015**	20150039.4	3	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-4.5	**Removed Component**	Area A	No Further Action *	0	Trench (share Trench) for previously removed Acid Lift Station #64, Area 4. Pit was cleaned and, inspected and sampled on **1/20/2016.**	20150039.5	4	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-5	**Removed Component**	Area A	No Further Action *	0	Trench for previously removed Fluoride Lift Station # 23 (shared with previously removed Acid Lift Station #65), Areas 4 and 24. Pit was cleaned and, inspected and sampled on **1/20/2016.**	20150039.6	4-24	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-20	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #14, Brass Tag # ECOL 2365, Area 6 **Removed 1/4/2016**	20150039.7	6	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-19	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #13, Brass Tag # ECOL 2367 (in closet), Area 6 **Removed 11/25/2015**	20150039.8	6	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-19	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #18, Brass Tag # ECOL 2370, Area 6 **Removed 11/24/2015**	20150039.9	6	1		1	1

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B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-19	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #19, Brass Tag # ECOL 2371, Area 6 **Removed 11/24/2015**	20150039.11	6	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-20	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #21 - Brass Tag # ECOL 2374, Area 6 **Removed 11/24/2015**	20150039.12	6	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-20	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #20, Brass Tag # ECOL 2375, Area 6 **(previously removed prior to 11/15/15)**	20150039.13	6	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-21	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #15, without Ecol Tag #, Area 6 **Removed 11/24/2015**	20150039.14	6	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 P8-P9	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #97, Area 18 **Removed 2/22/2016**	20150039.15	18	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 P-6	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #2, Area 21 **Removed 2/24/2016**	20150039.16	21	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 M-6	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #73, Area 23 **Removed 2/24/2016**	20150039.17	23	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-6	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #74, Area 24 **Removed 1/14/2016**	20150039.18	24	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 J-6	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #NA, Area 24 **Removed 1/14/2016**	20150039.19	24	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-6	**Removed Component**	Area A	No Further Action *	0	Trench (share trench) for previously removed Acid Lift Station #66, Area 24. Pit was cleaned, inspected and sampled on **1/20/2016.**	20150039.21	24	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 D6-D7	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #17, Area 26 **Removed 2/23/2016**	20150039.22	26	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-13	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #16, Area 29. Pit was cleaned and, inspected and sampled on **1/21/2016**	20150039.23	29	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 S-8	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #3, Area 29. **Removed prior to 11/25/2015**	20150039.24	29	0		1	1

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Solid Waste Management Units

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B/310 LS IW	Industrial Wastewater Lift Stations	B/310 T-8	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #4, Area 29. **Removed prior to 11/25/2015**	20150039.25	29	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-9	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #62, Area 30 **Removed 1/14/2016**	20150039.26	30	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 D-9 Janitor closet	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #NA, ECOL 2261 Area 30 **Removed 1/19/2016**	20150039.27	30	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-8	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #5, Area 30. Pit was cleaned and, inspected and sampled on **1/19/2016**	20150039.28	30	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 M-7	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #9, Area 30. Pit was cleaned and, inspected and sampled on **1/20/2016**	20150039.29	30	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AD-10	**Active**	Area A	No Further Action *	0	Acid Lift Station #7, Area 31	20150039.31	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AC-11	**Active**	Area A	No Further Action *	0	Acid Lift Station #76, Area 31	20150039.32	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AC-11	**Active**	Area A	No Further Action *	0	Acid Lift Station #77, Area 31	20150039.33	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AC-11	**Active**	Area A	No Further Action *	0	Acid Lift Station #78, Area 31	20150039.34	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AD-11	**Active**	Area A	No Further Action *	0	Acid Lift Station #79, Area 31	20150039.35	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AD-12	**Active**	Area A	No Further Action *	0	Acid Lift Station #80, Area 31	20150039.36	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AC-12	**Active**	Area A	No Further Action *	0	Acid Lift Station #81, Area 31	20150039.37	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AA-12	**Active**	Area A	No Further Action *	0	Acid Lift Station #82, Area 31	20150039.38	31	0	Delayed to pre-demolition 2016-2017	1	0

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B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AA-11	**Active**	Area A	No Further Action *	0	Acid Lift Station #83, Area 31	20150039.39	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AA-10	**Active**	Area A	No Further Action *	0	Acid Lift Station #84, Area 31	20150039.41	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 Y-10	**Active**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2280, Area 31	20150039.42	31	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 T-10	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2275, Area 36 **Removed 1/14/2016**	20150039.43	36	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 R-9	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #95, Area 37 **Removed 2/22/2016**	20150039.44	37	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 R-9	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #96, Area 37 **Removed 1/14/2016**	20150039.45	37	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-13	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #12, Area 49 **Removed 2/24/2016**	20150039.46	49	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-14	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #59, Area 52 **Removed 2/22/2016**	20150039.47	52	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-14	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #61, Area 52 **Removed 2/22/2016**	20150039.48	52	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 H-15	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station, Area 52. **Removed prior to 11/25/2015**	20150039.49	52	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 H-17	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2377, Area 56 **Removed 7/19/2016**	20150039.51	56	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 G-17	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2376, Area 57 **Removed 2/24/2016**	20150039.52	57	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 D-19	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #49, Area 60 **Removed 7/19/2016**	20150039.53	60	1		1	1

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B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-19	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #71, Area 60 **Removed 7/28/2016**	20150039.54	60	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-20	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #50, Area 60 **Removed 1/20/2016**	20150039.55	60	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 D-20	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #48, Area 60 **Removed 1/14/2016**	20150039.56	60	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-19	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #32, Area 61. Pit was cleaned and, inspected and sampled on **1/18/2016**	20150039.57	61	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-20 (Eyewash)	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #91, Area 61 **Removed 2/22/2016**	20150039.58	61	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-20 (Eyewash)	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station # 92, near Areas 33 & 34. **Removed prior to 11/25/2015**	20150039.59	61	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-19	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #90, Area 65 **Removed 7/28/2016**	20150039.61	65	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 C-21	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2468, Area 66 **Removed 7/19/2016**	20150039.62	66	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-23	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station # 24, Area 68 **Removed 8/18/2016**	20150039.63	68	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 C-23 (West)	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #57, Area 69 **Removed 1/13/2016**	20150039.64	69	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 D-24	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #40, Area 69. Pit was cleaned, inspected and sampled on **1/13/2016**	20150039.65	69	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-24	**Removed Component**	Area A	No Further Action *	0	Covered pit for previously removed (unlabeled) Acid Lift Station , Area 69. Pit was cleaned, inspected and sampled on **9/6/2016**	20150039.66	69	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 C-24 (west)	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #42, Area 70. Pit was cleaned and, inspected and sampled on **1/13/2016**	20150039.67	70	1		1	1

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B/310 LS IW	Industrial Wastewater Lift Stations	B/310 C-24 (east)	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station (unlabeled), Area 70. Pit was cleaned and, inspected and sampled on **1/13/2016**	20150039.68	70	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 A-24	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #42, Area 70. Pit was cleaned and, inspected and sampled on **1/13/2016**	20150039.69	70	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 C-25 (east)	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Acid Lift Station #45, Area 70. Pit was cleaned and, inspected and sampled on **1/13/2016**	20150039.71	70	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-25	**Removed Component**	Area A	No Further Action *	0	Small pits for two previously removed unknown Acid Lift Stations, Area 70. Both pits were cleaned, inspected and sampled on **1/18/2016**	20150039.72 20150039.73	70	2		2	2
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-25	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed Slurry Lift Station #3, Area 70. Pit was cleaned and, inspected and sampled on **1/18/2016**	20150039.74	70	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 C-25 (east)	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station #47, Area 70. **Removed prior to 11/25/2015**	20150039.75	70	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 E-25	**Removed Component**	Area A	No Further Action *		Acid Lift Station ECOL# 2477, Area 72 **Removed 7/19/2016**	20150039.76	72	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-27	**Active**	Area A	No Further Action *	0	Acid Lift Station #68, Area 76 Model Shop	20150039.77	76	0	To Remain in Service	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B310A	**Active**	Area A	No Further Action *	0	Acid Transfer Pump #1, Area 77, Lift pump for B310A tanks (SWMUs 3129 and 3134)	20150039.78	77	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B310A	**Active**	Area A	No Further Action *	0	Acid Transfer Pump #2, Area 77, Lift pump for B310A tanks (SWMUs 3129 and 3134)	20150039.79	77	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B310A	**Active**	Area A	No Further Action *	0	Acid Transfer Pump #3, Area 77, Lift pump for B310A tanks (SWMUs 3129 and 3134)	20150039.81	77	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 R-7	**Active**	Area A	No Further Action *	0	Acid Lift Station #101, MER at R7	20150039.82	MER at R7	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 B-11	**Active**	Area A	No Further Action *	0	Acid Lift Station #100, MER at B10	20150039.83	MER at B10	0	Delayed to pre-demolition 2016-2017	1	0

Table 1
Active and Certified Removed Solid Waste Management Units - Building 310
September 2016

SWMU Closure Report
DCAP End of Life Project
GLOBALFOUNRIES US 2 LLC Fab 10 Facility
Hopewell Junction, New York

Note: Initial excerpt from Part 373 Module II 20110606 (pages II-2 through II-22 accessible SWMUS and Page II-36 for inaccessible SWMUs)

Table II-1
Solid Waste Management Units

UNIT ID #	DESCRIPTION	LOCATION	STATUS	GW REMEDIATION AREA?*	RCRA STATUS	SWMU Count	DESCRIPTION (TANK, SUMP, CONTAINMENT, SYSTEM; SIZE; CONTENT)	SWMU Checklist Index Number	DCAP EOL Work Area	Total SWMU Components for 100% Removal in DCAP EOL Project	Comments	Total SWMU and SWMU Components Indexed	Finished
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 AA-8 MQA Storage	**Active**	Area A	No Further Action *	0	Acid Lift Station #6, Near Area 28	20150039.84	Near 28	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 Y-9 Housekeeping Room	**Active**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2277, Near Area 28	20150039.85	Near 28	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 D-11 Sub-slab vapor recovery system room servicing SWMU 4038	**Active**	Area A	No Further Action *	0	Acid Lift Station #23, Near Area 30	20150039.86	Near 30	0	Delayed to pre-demolition 2016-2017	1	0
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 X-10	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2304, Near Area 33 **Removed 1/14/2016**	20150039.87	Near 33	1		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 X-10	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station # 93, near Areas 33 & 34. **Removed prior to 11/25/2015**	20150039.88	Near 33 & 34	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 X-10	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station # 35, near Areas 33 & 34. **Removed prior to 11/25/2015**	20150039.89	Near 33 & 34	0		1	1
B/310 LS IW	Industrial Wastewater Lift Stations	B/310 F-17	**Removed Component**	Area A	No Further Action *	0	Acid Lift Station ECOL# 2263, Near Area 52 **Removed 2/24/2016**	20150039.91	Near 52	1		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310	Active	Area A	No Further Action *	1	Solvent Waste Lift Stations (various, within building 310). **Individual SO lift stations within Building 310 are listed below as components of B/310 LS SO.**	20150040.00	NA	0	Portions delayed to pre-demolition 2016-2017	NA	NA
B/310 LS SO	Solvent Waste Lift Stations	B/310 H-24	**Removed Component**	Area A	No Further Action *	0	Solvent Lift Station, Brass Tag # ECOL 2363, Area 1 (inlet pipe previously removed, inlet capped) **Removed 1/4/2016**	20150040.1	1	1		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 G-4.5	**Removed Component**	Area A	No Further Action *	0	Solvent Lift Station #3, Area 4. **Removed prior to 11/25/2015**	20150040.2	4	0		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 H-4.5	**Removed Component**	Area A	No Further Action *	0	Solvent MW (mixed waste) Lift Station #2, Area 4 **Removed prior to 11/25/2015**	20150040.3	4	0		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 H-4.5	**Removed Component**	Area A	No Further Action *	0	Solvent Lift Station #1, Area 4 **Removed prior to 11/25/2015**	20150040.4	4	0		1	1

Table 1
Active and Certified Removed Solid Waste Management Units - Building 310
September 2016

SWMU Closure Report
DCAP End of Life Project
GLOBALFOUNRIES US 2 LLC Fab 10 Facility
Hopewell Junction, New York

Note: Initial excerpt from Part 373 Module II 20110606 (pages II-2 through II-22 accessible SWMUS and Page II-36 for inaccessible SWMUs)

Table II-1
Solid Waste Management Units

UNIT ID #	DESCRIPTION	LOCATION	STATUS	GW REMEDIATION AREA?*	RCRA STATUS	SWMU Count	DESCRIPTION (TANK, SUMP, CONTAINMENT, SYSTEM; SIZE; CONTENT)	SWMU Checklist Index Number	DCAP EOL Work Area	Total SWMU Components for 100% Removal in DCAP EOL Project	Comments	Total SWMU and SWMU Components Indexed	Finished
B/310 LS SO	Solvent Waste Lift Stations	B/310 A-2.5	Trench Closure Incomplete	Area A	No Further Action *	0	Trench for previously removed solvent Lift Station #11 (drain pipe in trench), Area 13. Trench was cleaned and inspected on **1/21/2016** and verified pH neutral and debris free. **Trench failed integrity inspection on 6/6/2016 based on minor to significant visible erosion of epoxy cement liner. Representative core samples (July-August 2016) analyzed for solvents confirm liner failure within a 3 ft. section based on presence of trace IPA (45 ppm) in underlying concrete.**	20150040.5	13	0	Trace level of IPA in concrete beneath epoxy liner indicates need for further investigation.	1	0
B/310 LS SO	Solvent Waste Lift Stations	B/310 A-1	**Removed Component**	Area A	No Further Action *	0	Trench for previously removed solvent Lift Station #13 (drain pipe in trench), Area 13. Trench was cleaned and inspected on **1/21/2016** and verified pH neutral and debris free. **Trench failed integrity inspection on 6/6/2016 based on minor visible erosion of epoxy cement liner. Representative core samples (July 28 2016) analyzed for solvents confirm clean closure due to absence of residual solvents in the liner and underlying concrete.**	20150040.6	13	1	Trench is debris free and not impacted with hazardous wastes based on sampling and analysis.	1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 F-8	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed solvent Lift Station #6, Area 30. Pit was cleaned and, inspected and sampled on **1/19/2016**	20150040.7	30	1		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 G-9	**Removed Component**	Area A	No Further Action *	0	Pit for previously removed solvent-SM (solvents mixed) Lift Station, Area 30. Pit was cleaned and, inspected and sampled on **1/19/2016**	20150040.8	30	1		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 M-7	**Removed Component**	Area A	No Further Action *	0	Previously removed solvent-MW (mixed waste) Lift Station, Area 30.	20150040.9	30	1		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 D-22	**Removed Component**	Area A	No Further Action *	0	Solvent Lift Station stored on floor/No label **Removed 1/13/2016**	20150040.11	64	1		1	1
B/310 LS SO	Solvent Waste Lift Stations	B/310 X-10	**Removed Component**	Area A	No Further Action *	0	4 Solvent (unlabeled) Lift Stations, near Areas 33 & 34. **Removed prior to 11/25/2015**	20150040.12 20150040.13 20150040.14 20150040.15	Near 33 & 34	0		4	4
B310-SO (2)	Solvent Waste Transfer Piping	B/310	Active	Area A	No Further Action *	1	Includes all above ground solvent waste transfer piping within B/310.	20150041.0	NA	0	Portions delayed to pre-demolition 2016-2017	1	0

Table 1
Active and Certified Removed Solid Waste Management Units - Building 310
September 2016

SWMU Closure Report
DCAP End of Life Project
GLOBALFOUNRIES US 2 LLC Fab 10 Facility
Hopewell Junction, New York

Note: Initial excerpt from Part 373 Module II 20110606 (pages II-2 through II-22 accessible SWMUS and Page II-36 for inaccessible SWMUs)

Table II-1
Solid Waste Management Units

UNIT ID #	DESCRIPTION	LOCATION	STATUS	GW REMEDIATION AREA?*	RCRA STATUS	SWMU Count	DESCRIPTION (TANK, SUMP, CONTAINMENT, SYSTEM; SIZE; CONTENT)	SWMU Checklist Index Number	DCAP EOL Work Area	Total SWMU Components for 100% Removal in DCAP EOL Project	Comments	Total SWMU and SWMU Components Indexed	Finished
B310-FL (2)	Fluoride/Heavy Metals Wastewater Transfer Piping	B/310	Active	Area A	No Further Action *	1	Includes all above ground Fluoride/Heavy metal waste transfer piping within B/310.	20150042.0	NA	0	Portions delayed to pre-demolition 2016-2017	1	0
B310-FL (2)	Fluoride/Heavy Metals Wastewater Transfer Piping	B/310 F18-J18	Active	Area A	No Further Action *	0	Covered Concrete Trench in Aisle 18, F18-J18 through outer wall to underground fluoride/heavy metal wastewater transfer piping. **Fluoride/heavy metal wastewater transfer pipe was previously removed from concrete trench prior to 11/15/2015.**	20150042.0	Hallway at Area 6	0	Trench closure delayed to pre-demolition 2016-2017	NA	0
B310-IW (2)	Industrial Wastewater Transfer Piping	B/310	Active	Area A	No Further Action *	1	Includes all above ground Industrial waste transfer piping within B/310.	20150043.0	NA	0	Portions delayed to pre-demolition 2016-2017	1	0

Total Active SWMUs in B 310 at Start of DCAP	8	Total SWMU Components Removed in DCAP Project	**73**	Total Indexed	123
Total Active SWMUs in B 310A at Start of DCAP	2			Total SWMU Components Removed Before and During DCAP	94
Total SWMUs Completely Closed/Removed During DECAP	1			Percent Complete thru DCAP	76%
Total SWMUs Partially Closed/Removed During DECAP	**6**				

Table 2

Facilities Receiving Decontaminated SWMU Components, DCAP Packaging End of Life Project

Table 2
Facilities Receiving Decontaminated Non-Hazardous SWMU Components

SWMU Closure Report
DCAP End of Life Project
GLOBALFOUNDRIES US 2 LLC Fab 10 Facility
Hopewell Junction, New York

Vendor	Materials Managed	Method	Transporter
Millens Metal Recycling 4 Kieffer Lane Kingston, NY 12401	Scrap Metal	Recycle	Millens
Seneca Meadows Landfill 1786 Salcman Road Waterloo, NY 13165	Non-Metal Debris	Landfill	Royal
Ontario County Landfill 1879 State Route 5 and 20, Stanley, NY 14561	Non-Metal Debris	Landfill	Royal
Dutchess County Resource Recovery Facility 96 Sand Dock Rd Poughkeepsie, NY 12601	Non-Metal Debris	Waste to Energy Facility	Royal

FIGURES

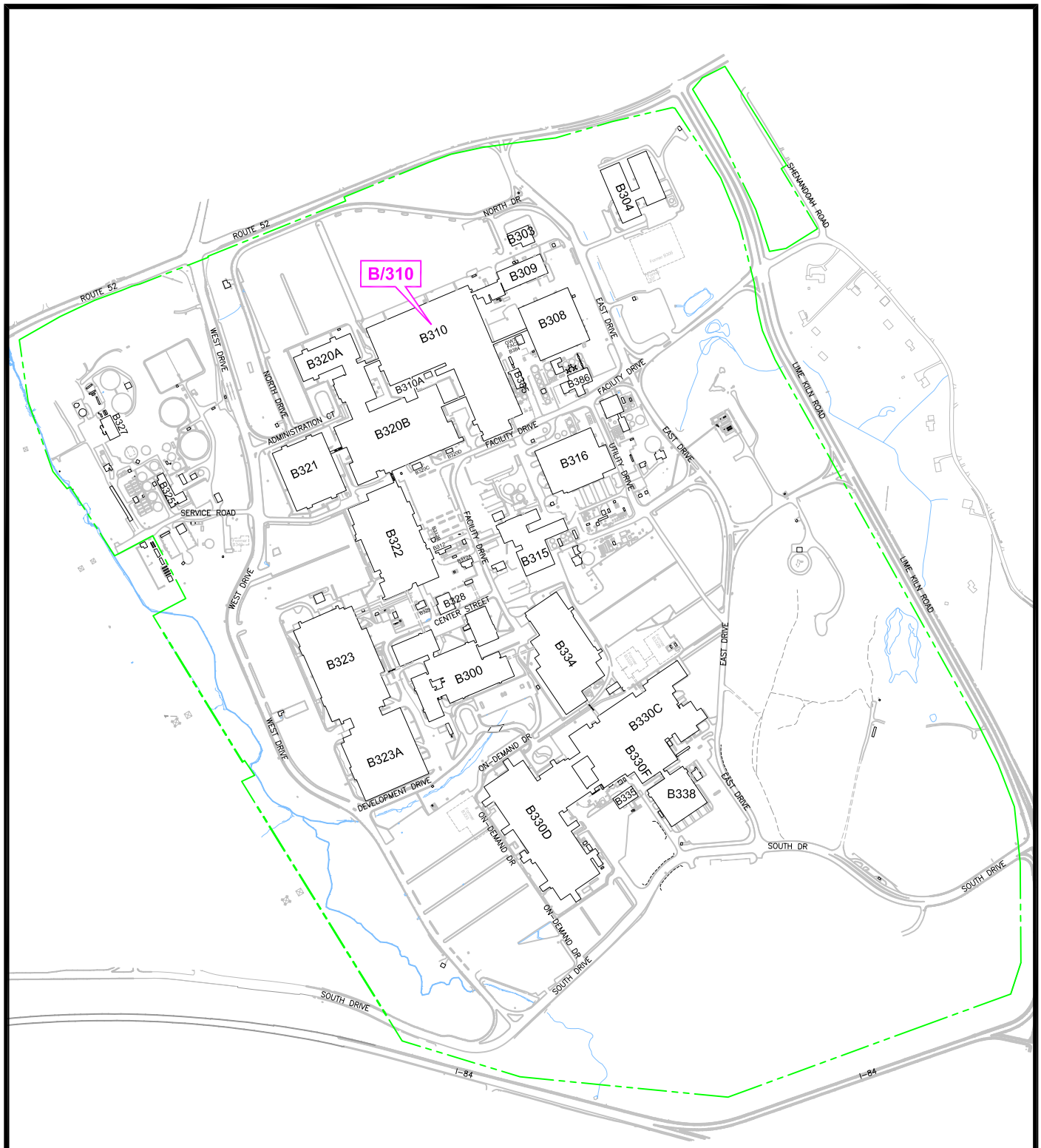


Figure 1

LEGEND

- Former IBM East Fishkill Facility Property Line

Basemap: Chazen Engineering, Land Surveying & Landscape Architechure Co., D.P.C., Poughkeepsie NY (XBASE-SVY_51421-00.dwg, 8/10/15).

Scale

0 400' 800'

Former IBM East Fishkill Facility

DCAP End of Life Project
SWMU Closure Locations

DRAWN BY: MHM	DATE: 10/13/16	DRAWING NO.
CHECKED & APPROVED BY: CES		95007-106-A2

GROUNDWATER SCIENCES CORPORATION

AREAS OF WORK

1 MLC DCAP WET LAB
2 DICE & PICK - PACKAGING
3 MLC STORAGE
4 LASERS & OVENS - PACKAGING
5 SURFACE PROFILE - PACKAGING LAM LINE
6 BALZER - PACKAGING
7 BALZER - PACKAGING (ARCHIVES STORAGE)
8 BALZER - PACKAGING (ARCHIVES STORAGE)
9 EES/SRDC
10 DCAP
11 ICP DCAP
12 CORE AREA - PACKAGING LAM LINE
13 BOWL CLEANER
14 UNKNOWN (FACILITIES MEDICAL STORAGE)
15 C4 MAINTENANCE - PACKAGING
16 SERVER LAB
17 SRDC SEM LAB
18 CHEM MIX ROOM
19 SRDC
20 NOT USED
21 NOT USED
22 300 MM WAFER STORAGE
23 UNKNOWN - (FAC FURNITURE STORAGE)
24 MASK HOUSE - PACKAGING
25 SERIALIZATION FOR PACKAGING
26 ICP - PACKAGING MLC
27 MLC POWDER STORAGE
28 ANALYTICAL SERVICES LAB
29 ANALYTICAL SERVICES LAB
30 EBEAM
31 ISC MQA LAB - CHEM LAB - PACKAGING SUPPORT
32 APPLIED MATERIALS
33 EEEC STORAGE
34 DROP AREA
35 ISC MQA LAB STORAGE
36 TOXIC GAS DRY LAB
37 C4 PLATING - MLC PACKAGING
38 NOT USED
39 300 MM STORAGE
40 RGA STORAGE
41 NOT USED
42 UNKNOWN (MLC IT SUPPORT)
43 ISC WAFER STORAGE - MLC STORAGE
44 UNKNOWN (TEMCO)
45 UNKNOWN
46 UNKNOWN (TEMCO)
47 UNKNOWN (FURNITURE STORAGE)
48 UNKNOWN (FASTENAL/FLUOR MAINTENANCE)
49 UNKNOWN
50 IGS STORAGE
51 TOXIC GAS ROOM
52 ICP / C4/MLC - DCAP
53 NOT USED
54 NOT USED
55 ISC 300 MM WAFER STORAGE
56 MODEL SHOP
57 MODEL SHOP
58 NOT USED
59 NOT USED
60 UNKNOWN (DCAP PACKAGING STORAGE)
61 UNKNOWN (FACILITIES STORAGE)
62 ISC DRY LAB
63 DCAP STORAGE
64 DCAP STORAGE
65 DCAP STORAGE
66 MODEL SHOP
67 MLC
68 DCAP STORAGE
69 VSNP
70 MLC STORAGE - SHEETS
71 DCAP STORAGE
72 MODEL SHOP
73 SRDC
74 FACILITIES GAS ROOM
75 MODEL SHOP
76 MODEL SHOP
77 B310A ACID LIFT STATIONS
78 EES 300 MM MFG
79 CMOS LAB

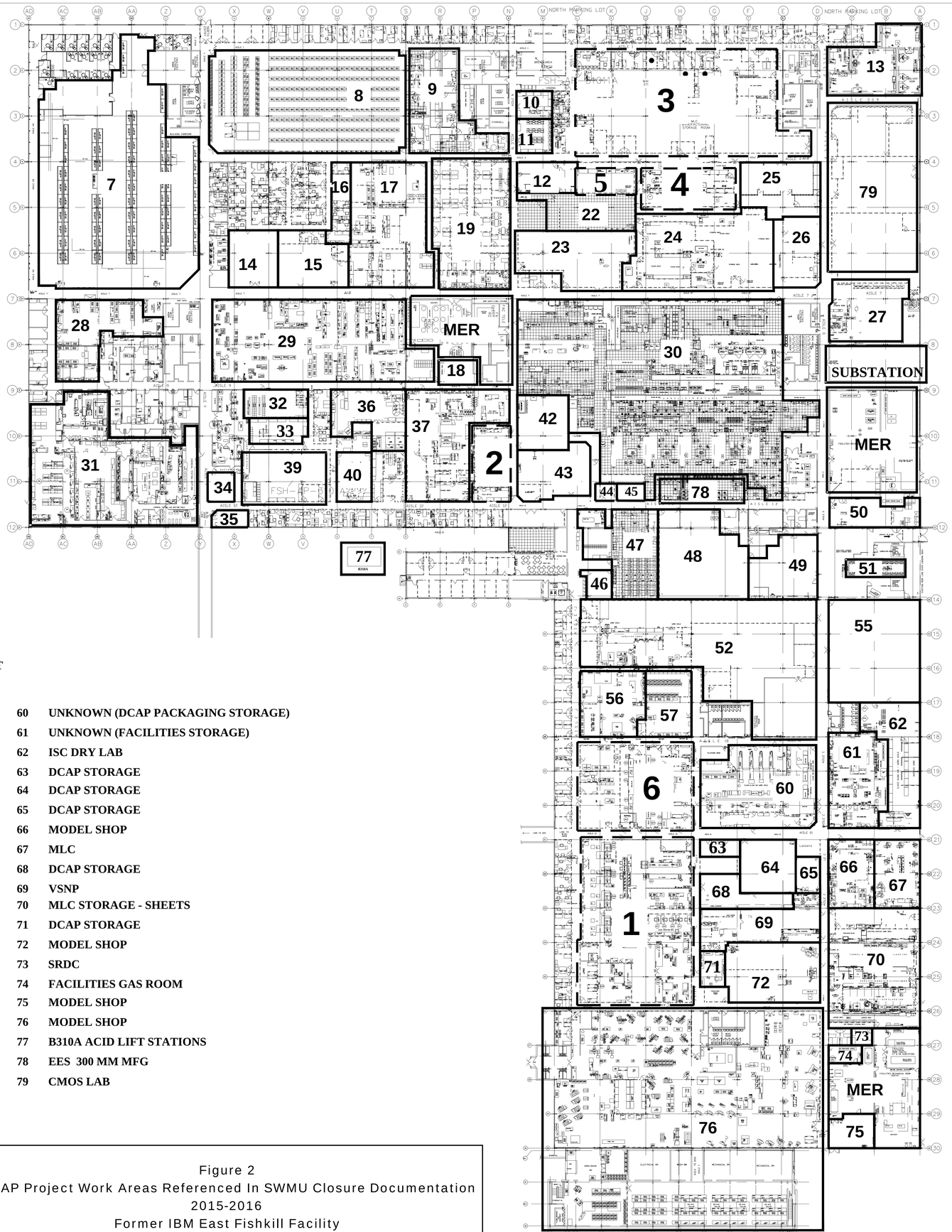


Figure 2
DCAP Project Work Areas Referenced In SWMU Closure Documentation
2015-2016
Former IBM East Fishkill Facility

B310 PLAN
NTS

NORTH

PLAN VIEW

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PROFESSIONAL SEAL

CH2MHILL
Pittsburgh Office
400 Industry Drive
Pittsburgh, PA 15275

PROJECT: B310 DCAP
COORDINATOR: ED PEPPE
DESIGNER: CH2M HILL
ENGINEER: CH2M HILL
CONST. MGR: WHITING-TURNER

Rev.	Date	Issued For	By
0	12/3/15	ISSUE FOR INFORMATION ONLY	JF

** REVISIONS **

IBM PROJ. #: IDC PROJ. #: 661733
FACILITIES ENGINEERING
GTD EAST FISHKILL
HOPEWELL JUNCTION, NY

B310 - ARCHITECTURAL LEVEL 1 PLAN/OVERALL AREA DESIGNATIONS FOR CHEMICAL SURVEY

DRAWN BY: CD DATE: 12/01/15
APRVD BY: - DATE: -
DWG SCALE: NTS
SHEET OF
DWG NO: B310A-0400

FILENAME: PSCALE: CADUSER: DATE:

C:\pw_workdir\den001\2718\d0390945\B310A-0400.DWG
2718 December 09, 2015 - 12:32pm

TRIM LINE
Border 34"x 44" Revised 11\6\06

Attachments

A Solid Waste Management Unit Closure Checklists

B Solid Waste Management Unit Decontamination Verification Tables

C Analytical Data Tables and Reports for Trenches in Solvent Room and Corrosives Room – SWMU Lift Stations



Attachment A

Solid Waste Management Unit

Closure Checklists



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-24	Project Area	NA	Index #	20150036

SWMU Name:	3135
SWMU Description:	Fluoride/Heavy Metals Wastewater
SWMU Component:	Fluoride/Heavy Metals Wastewater Lift Station, 300 gal. PVC/Crete Pump Tank (in concrete pit), CS 3135

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Flushed and Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed	X			Pass	IBM WWTP	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	Millens
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Clean for Scrap Recycling			6/8/2016	
2. Date Containment Pit/Trench Verified Clean			6/2/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	6/8/2016	

Pictures:	Attached
Data:	Table 5
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station tank demolition and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY. Secondary containment pit was pressure washed and dried, pH verified, and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU 3135 - Fluoride/Heavy Metals Lift Station Tank
Area 70, Lift Station at B-24, Index No. 20150036 – Clean Removal of Tank and Above Grade Components Verified 6/8/2016

Pre-Removal



Pre-Removal View of Cover on PVC Tank in Concrete Pit



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU 3135 - Fluoride/Heavy Metals Lift Station Tank
Area 70, Lift Station at B-24, Index No. 20150036 – Neutral and Debris Free Removal Verified 6/8/2016

Decontaminated PVC Tank Removed and Demolished for Disposal



Decontaminated Tank Cover Ready for Scrap Metal Recycling



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU 3135 - Fluoride/Heavy Metals Lift Station Tank
Area 70, Lift Station at B-24, Index No. 20150036 – Pit Inspected and Sampled 6/2/2016

Decontaminated Concrete Secondary Containment Pit



Decontaminated Concrete Secondary Containment Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-4.5	Project Area	4	Index #	20150038.1

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #22

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 14
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #22
Area 4, Pit for Previously Removed Lift Station at G-4.5, Index No. 20150038.1 – Inspected and Sampled on 1/19/2016

Previously Removed Lift Stations



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-5	Project Area	4-24	Index #	20150038.2

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #23

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	Attached
Data:	Table 14
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #23
Area 4-24, Lift Station at G-5, Index No. 20150038.2 – Inspected and Sampled 1/20/2016

Previously Removed Lift Stations



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-19	Project Area	6	Index #	20150038.3

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Fluoride Lift Station #5 - Brass Tag # ECOL 2368

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			11/24/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/24/2015	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station # 5
Area 6, Lift Station at F-19, Index No. 20150038.3 – Clean Removal Verified 11/24/2015

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-19	Project Area	6	Index #	20150038.4

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Fluoride Lift Station #6 - BrassTag # ECOL 2369

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station # 6
Area 6, Lift Station at G-19, Index No. 20150038.4 – Clean Removal Verified 1/4/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-20	Project Area	6	Index #	20150038.5

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Fluoride Lift Station #7 - BrassTag # ECOL 2372

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #7
Area 6, Lift Station at G-20, Index No. 20150038.5 – Clean Removal Verified 11/24/2015

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-20	Project Area	6	Index #	20150038.6

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Fluoride Lift Station #8 - Brass Tag # ECOL 2373

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #8
Area 6, Lift Station at G-20, Index No. 20150038.6 – Clean Removal Verified 1/4/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-2	Project Area	13	Index #	20150038.7

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Fluoride Lift Station #28

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity		X		Fail		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents	X			Pass		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/20/2016	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	9/9/2016	

Pictures:	Attached
Data:	Table 13
Notes:	Diaphragm pump and HDPE lift station sump were removed, partially dismantled, and decontaminated. Secondary containment pit for sump tank and floor trench for drain pipes were pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition on 1/20/2016. Drain pipes in trench were flushed with facility water and were verified to be debris free and tested with Hydrion pH test strips to verify neutral range (pH 5-8) on 1/20/2016. Decontaminated steel drain pipes were recycled at Millens Metal Recycling, Kingston, NY. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY. Trench failed integrity inspection on 6/6/2016 based on minor visible erosion of epoxy cement liner. Representative core samples through the most eroded trench liner sections, and a background sample of the slab, were collected (July 28 2016) and analyzed for eight RCRA metals and other inorganic constituents. All results were similar to background. The RCRA metal concentrations detected in the samples were below any levels that may be indicative of a possible hazardous "D" waste based on a "Rule of 20" comparison to the "Maximum Concentration of Contaminants for the Toxicity Characteristic" (40 CFR 261.24).

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station # 28
Area 13, Lift Station at B-2, Index No. 20150038.7 – Clean Removal Verified 1/20/2016

Pre-Removal Diaphragm Pump

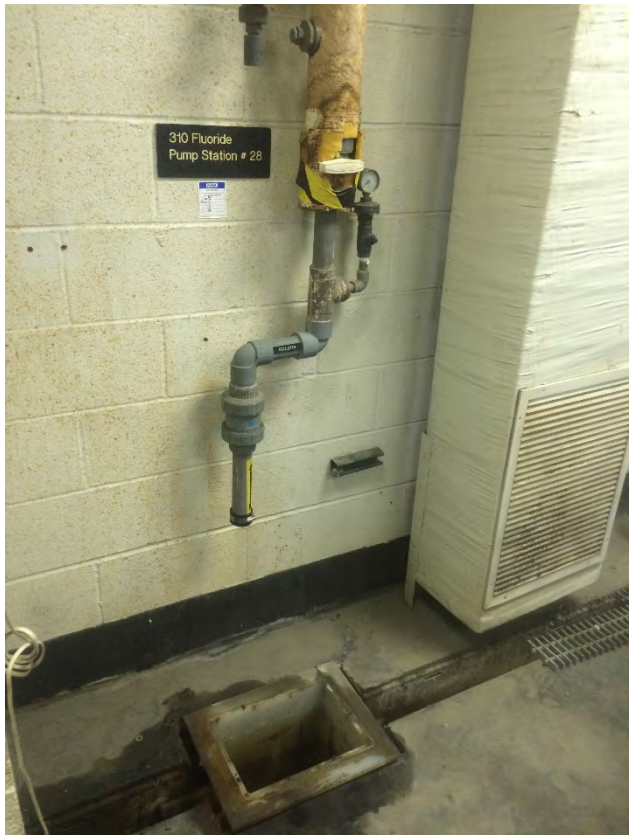


Decontaminated Pump



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station # 28
Area 13, Lift Station at B-2, Index No. 20150038.7 Clean Removal Verified 1/20/16

Sump Liner Pre-Removal



Decontaminated Sump Liner and Sump Pump



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station # 28
Area 13, Lift Station at B-2, Index No. 20150038.7 – Debris-Free Trench Verified 1/20/2016
Failed Integrity Inspection 6/6/2016, Trench Bottom Sampled 7/28/16, PID Readings Attributable to Epoxy Cement Lining Heated by Drill Bit Friction

Decontaminated Trench





Decontaminated Trench as Sampled



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-6	Project Area	24	Index #	20150038.8

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #24

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal		NA	
2. Date Containment Pit/Trench Verified Clean		1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016

Pictures:	Attached
Data:	Table 6
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #24
Area 24, Pit for Previously Removed Lift Station at G-6, Index No. 20150038.8 – Inspected and Sampled on 1/20/2016

Previously Removed Lift Stations





Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-8	Project Area	30	Index #	20150038.9

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #4

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

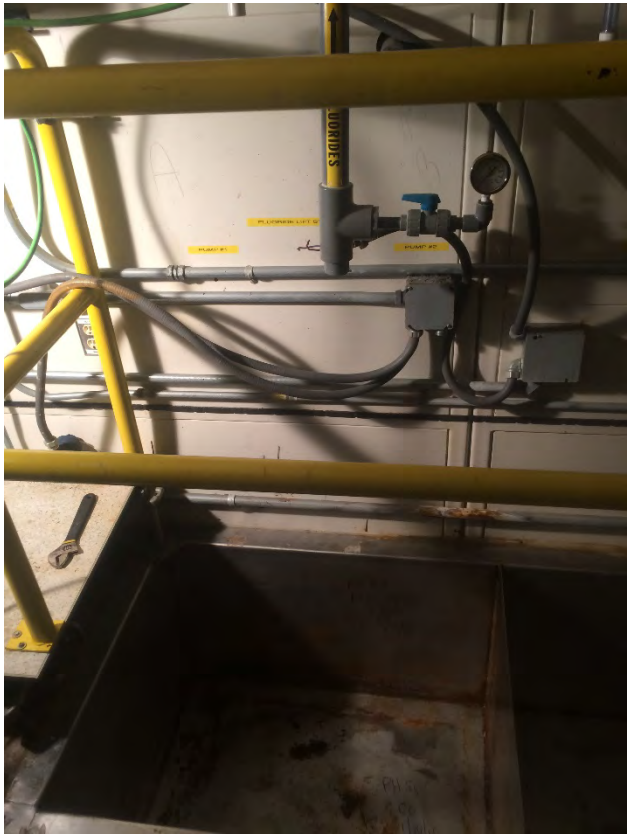
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #4
Area 30, Pit for Previously Removed Lift Station at F-8, Index No. 20150038.9 – Inspected and Sampled on 1/19/2016

Previously Removed Lift Station- Far Left-Stainless Steel Lined Pit



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-9	Project Area	30	Index #	20150038.11

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #15

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #15
Area 30, Pit for Previously Removed Lift Station at G-9, Index No. 20150038.11 – Inspected and Sampled on 1/19/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-8	Project Area	30	Index #	20150038.12

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Previously removed Fluoride Lift Station #11

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Fluoride lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #11
Area 30, Lift Station at G-8, Index No. 20150038.12 – Removed Prior to 11/25/2015, Secondary Pit Inspected and Sampled 1/19/16

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-15	Project Area	52	Index #	20150038.15

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Previously removed Fluoride Lift Station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Fluoride lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station - Unlabeled
Area 52, Lift Station at G15, Index No. 20150038.15 – Removed Prior to 11/25/2015

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-20	Project Area	60	Index #	20150038.16

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #14

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal		NA	
2. Date Containment Pit/Trench Verified Clean		1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016

Pictures:	Attached
Data:	Table 11
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Decontaminated Pit for Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-19	Project Area	60	Index #	20150038.17

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal		NA	
2. Date Containment Pit/Trench Verified Clean		1/18/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/18/2016

Pictures:	Attached
Data:	Table 12
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station - Unlabeled
Area 61, Pit for Previously Removed Lift Station at B-19, Index No. 20150038.17 – Inspected and Sampled on 1/18/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-24	Project Area	69	Index #	20150038.18

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Pit for previously removed Fluoride Lift Station #13

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/18/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/18/2016	

Pictures:	Attached
Data:	Table 4
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station #13
Area 69, Pit for Previously Removed Lift Station at E-24, Index No. 20150038.18 – Inspected and Sampled on 1/18/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-24	Project Area	70	Index #	20150038.19

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Previously Removed Fluoride Lift Station #41

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/18/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/18/2016	

Pictures:	Attached
Data:	
Notes:	

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	A-27	Project Area	70	Index #	20150038.21

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Previously removed Fluoride Lift Station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Fluoride lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station – Unlabeled Station Number
MER Near Area 70, Lift Station at A-27, Index No. 20150038.21 – Removed Prior to 11/25/2015

Previously Removed Lift Station – Drain for Fluoride Wastewater Secondary Containment Piping In Electrical Substation



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-27	Project Area	70	Index #	20150038.22

SWMU Name:	B/310 LS FL
SWMU Description:	Fluoride/Heavy Metals Lift Stations
SWMU Component:	Previously removed Fluoride Lift Station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

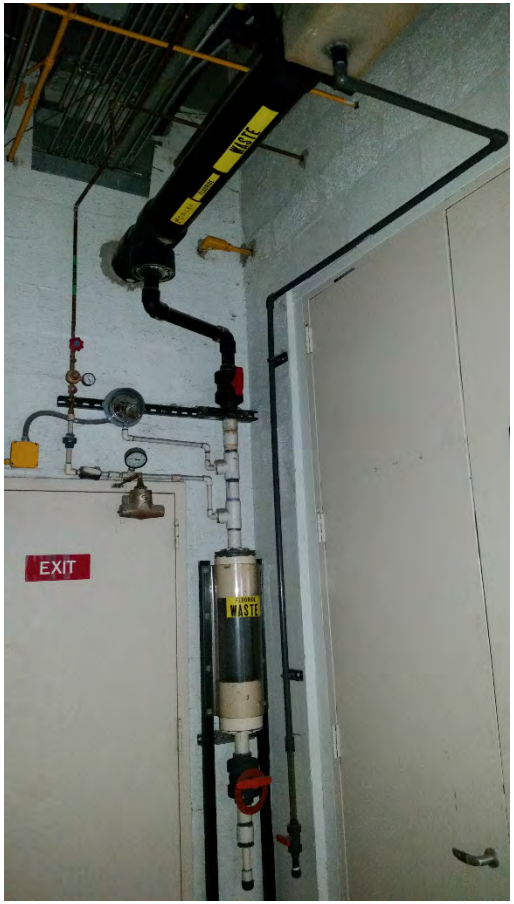
1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Fluoride lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS FL - Fluoride/Heavy Metals Lift Station - Unlabeled
MER Near Area 70, Lift Station at B-27, Index No. 20150038.22 – Removed Prior to 11/25/2015

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-25	Project Area	1	Index #	20150039.1

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station - Brass Tag # ECOL 2361

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

Pictures:	Attached
Data:	Table 2
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

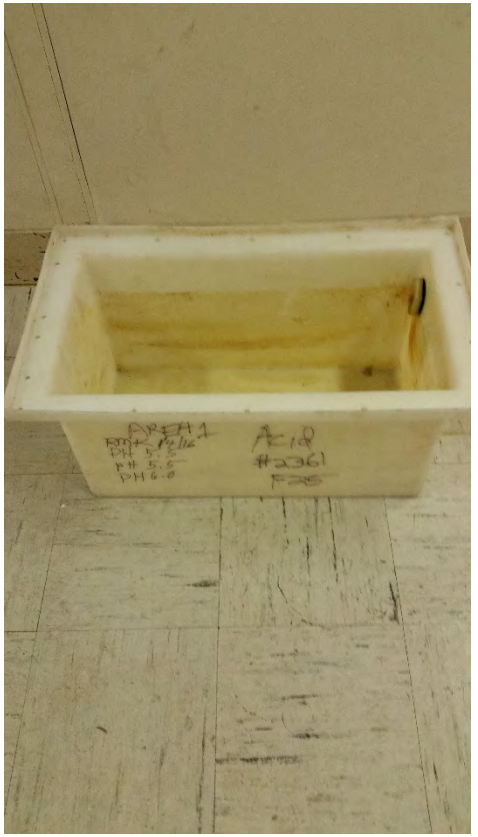
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2361
Area 1, Lift Station at F-25, Index No. 20150039.1 – Clean Removal Verified 1/4/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-24	Project Area	1	Index #	20150039.2

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station - Brass Tag # ECOL 2362

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

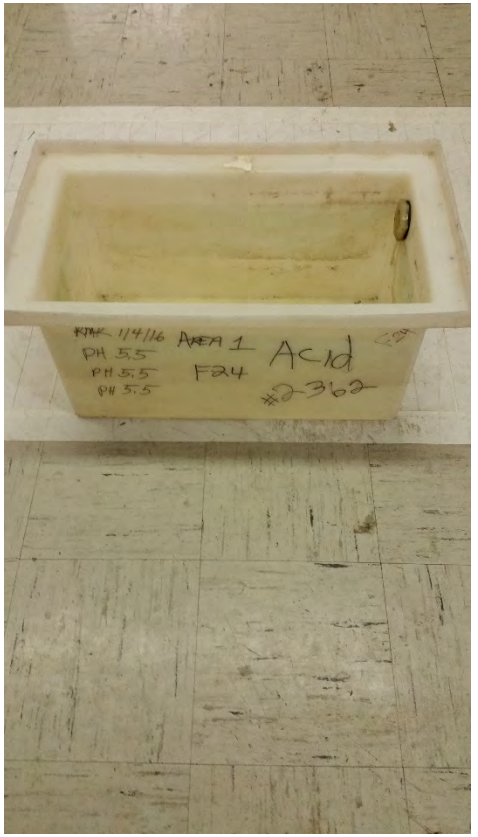
Pictures:	Attached
Data:	Table 2
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2362
Area 1, Lift Station at F-24, Index No. 20150039.2 – Clean Removal Verified 1/4/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-24	Project Area	1	Index #	20150039.3

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #10 - Brass Tag # ECOL 2364

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/20/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	Attached
Data:	Table 2
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #10
Area 1, Lift Station at H-24, Index No. 20150039.3 – Clean Removal Verified 1/20/2016

Pre-Removal



Decontaminated



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-2	Project Area	3	Index #	20150039.4

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #31

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #31
Area 3, Lift Station at H-2, Index No. 20150039.4 – Removed Prior to 11/25/2015

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-4.5	Project Area	4	Index #	20150039.5

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Trench for Previously Removed Acid Lift Station #64

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	NA
Data:	Table 14
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #64
Area 4, Lift Station at G-4.5, Index No. 20150039.5 – Clean Removal Verified 1/20/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-4.5	Project Area	24-Apr	Index #	20150039.6

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Trench for Previously Removed Acid Lift Station #65

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	NA
Data:	Table 14
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #65
Area 4-24, Lift Station at G-5, Index No. 20150039.6 – Clean Removal Verified 1/20/2016

Previously Removed Lift Station





Decontaminated



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-20	Project Area	6	Index #	20150039.7

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #14 - Brass Tag # ECOL # 2365

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #14
Area 6, Lift Station at F-20, Index No. 20150039.7 – Clean Removal Verified 1/4/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-19	Project Area	6	Index #	20150039.8

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #13 - Brass Tag # ECOL 2367

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #13
Area 6, Lift Station at F-19, Index No. 20150039.8 – Clean Removal Verified 11/25/2015

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-19	Project Area	6	Index #	20150039.9

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #18 - Brass Tag # ECOL 2370, with connected sink - Brass Tag # ECOL079

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			11/24/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/24/2015	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #18
Area 6, Lift Station at G-19, Index No. 20150039.9 – Clean Removal Verified 11/24/2015

Pre-Removal Lift Station



Pre-Removal Sink Drain to Lift Station #18



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #18
Area 6, Lift Station at G-19, Index No. 20150039.9 – Clean Removal Verified 11/24/2015

Decontaminated Lift Station



Decontaminated Sink



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-19	Project Area	6	Index #	20150039.11

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #19 - Brass Tag # ECOL # 2371

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			11/24/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/24/2015	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #19
Area 6, Lift Station at G-19, Index No. 20150039.11 – Clean Removal Verified 11/24/2015

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-20	Project Area	6	Index #	20150039.12

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #21 - Brass Tag # ECOL 2374

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

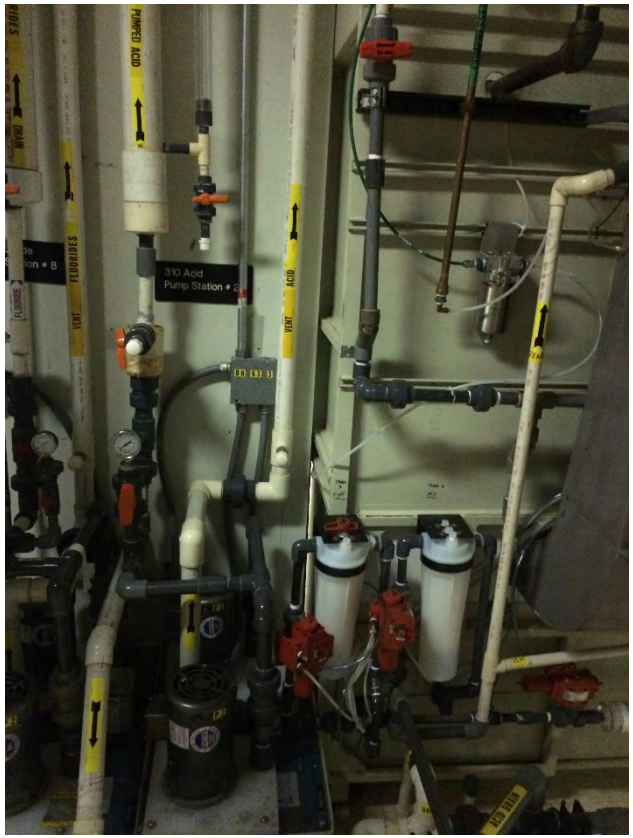
Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			11/24/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/24/2015	

Pictures:	Attached
Data:	Table 1B
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #21
Area 6, Lift Station at G-20, Index No. 20150039.12 – Clean Removal Verified 11/24/2015

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-20	Project Area	6	Index #	20150039.13

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #20, Brass Tag # ECOL 2375

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	NA
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-21	Project Area	6	Index #	20150039.14

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #15

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			11/24/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/24/2015	

Pictures:	Attached
Data:	Table 1B
Notes:	Decontamination was performed on lift station tank that discharged to the industrial waste drain system, followed by pH verification with Hydrion test strips. Metal was separated and recycled as scrap metal by Millens Recycling. Plastic components were separated and disposed as trash through Royal Carting for incineration at Dutchess County Resource Recovery Facility, Poughkeepsie, NY

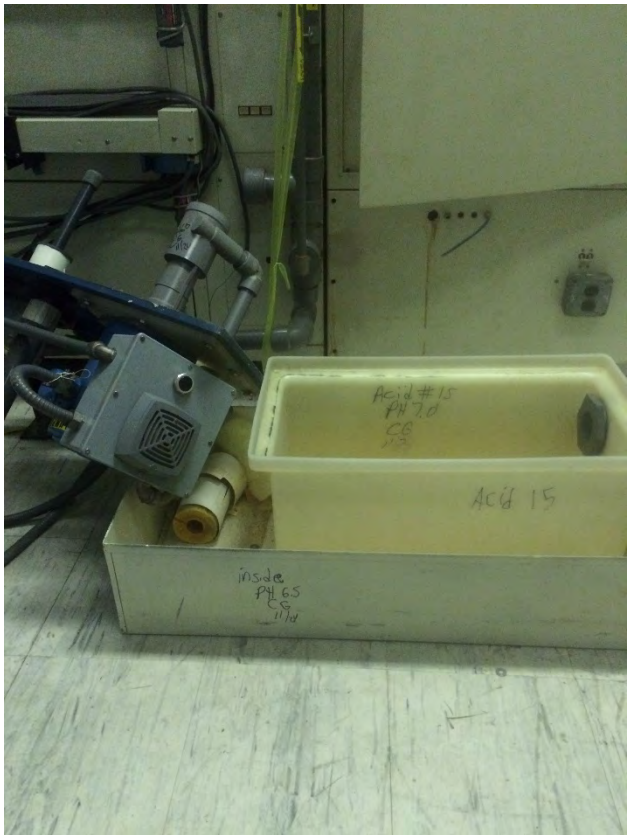
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #15
Area 6, Lift Station at F-21, Index No. 20150039.14 – Clean Removal Verified 11/24/2015

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	P8-P9	Project Area	18	Index #	20150039.15

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #97, ECOL #2268

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/22/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/22/2016	

Pictures:	Attached
Data:	Table 20
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #97
Area 18, Lift Station at P8-P9, Index No. 20150039.15 – Clean Removal Verified 2/22/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	P-6	Project Area	21	Index #	20150039.16

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #2

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/24/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/24/2016	

Pictures:	Attached
Data:	Table 24
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

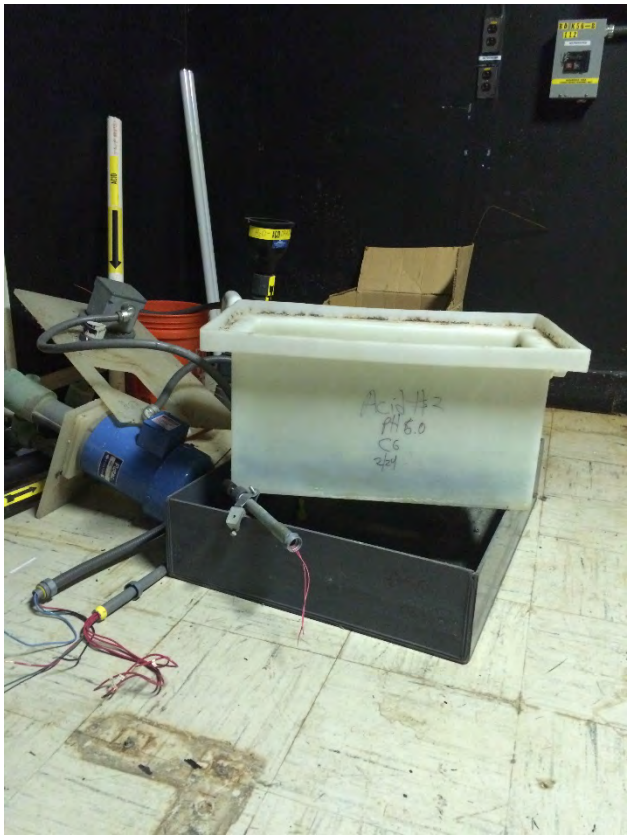
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #74
Area 21, Lift Station at P-6, Index No. 20150039.16 – Clean Removal Verified 2/24/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	M-6	Project Area	23	Index #	20150039.17

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #73

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

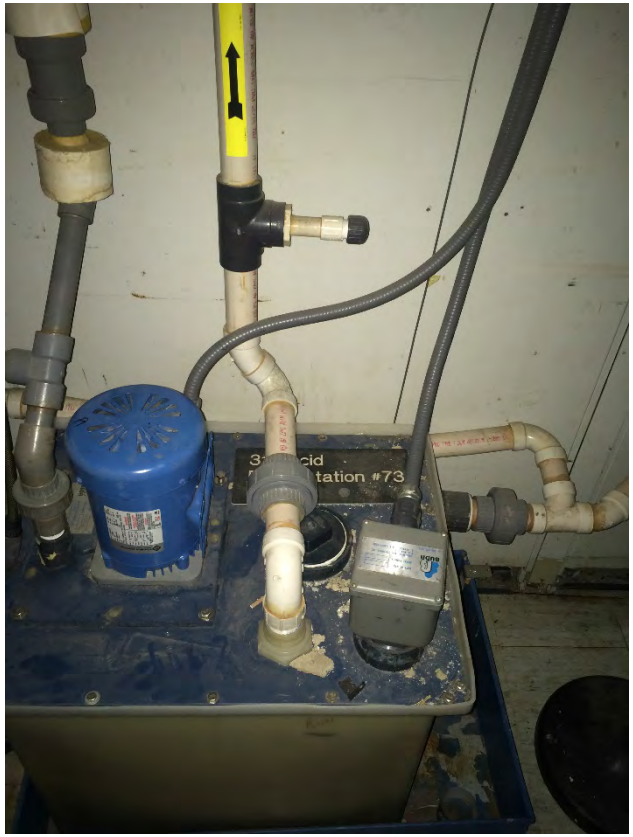
1. Date Tank/Pipes Verified Decontaminated for Disposal			2/24/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/24/2016	

Pictures:	Attached
Data:	Table 23
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #73
Area 23, Lift Station at M-6, Index No. 20150039.17 – Clean Removal Verified 2/24/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-6	Project Area	24	Index #	20150039.18

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #74

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/14/2016	

Pictures:	Attached
Data:	Table 6
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #74
Area 24, Lift Station at G-6, Index No. 20150039.18 – Clean Removal Verified 1/14/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	J-6	Project Area	24	Index #	20150039.19

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #NA

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/14/2016	

Pictures:	Attached
Data:	Table 6
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #NA
Area 24, Lift Station at J-6, Index No. 20150039.19 – Clean Removal Verified 1/14/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-6	Project Area	24	Index #	20150039.21

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Trench for Previously Removed Acid Lift Station #66

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	NA
Data:	Table 6
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #66
Area 20, Trench for Previously Removed Lift Station at C-24, Index No. 20150039.21 – Inspected and Sampled on 1/20/2016

Previously Removed Lift Station





Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	D6-D7	Project Area	26	Index #	20150039.22

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #17

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/23/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/23/2016	

Pictures:	Attached
Data:	Table 32
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #17
Area 26, Lift Station at D6-D7, Index No. 20150039.22 – Clean Removal Verified 2/23/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-13	Project Area	29	Index #	20150039.23

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Trench for Previously Removed Acid Lift Station #16

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/21/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/21/2016	

Pictures:	NA
Data:	Table 15
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #16
Area 29, Pit for Previously Removed Lift Station at E-13, Index No. 20150039.23 – Inspected and Sampled on 1/21/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	S-8	Project Area	29	Index #	20150039.24

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #3

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	T-8	Project Area	29	Index #	20150039.25

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #4

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

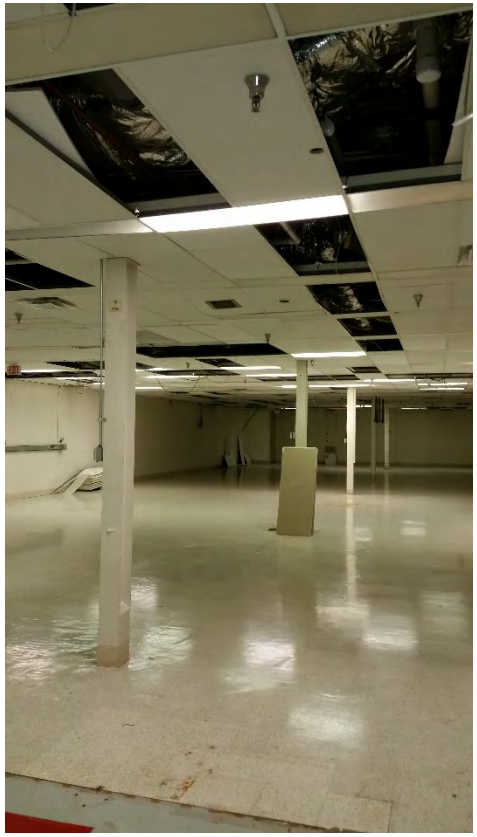
Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-9	Project Area	30	Index #	20150039.26

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #62

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY. Secondary containment pit was pressure washed and dried, tested with Hydrion Test St, and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #62
Area 30, Lift Station at G-9, Index No. 20150039.26 – Clean Removal Verified 1/14/2016

Pre-Removal



Decontaminated Lift Station



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #62
Area 30, Lift Station at G-9, Index No. 20150039.26 – Clean Removal Verified 1/14/2016

Decontaminated Lift Station #62 Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	D-9	Project Area	30	Index #	20150039.27

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #NA, ECOL #2261

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/19/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL# 2261
Area 30, Lift Station at D-9, Index No. 20150039.27 – Clean Removal Verified 1/19/2016

Pre-Removal



Decontaminated Pump



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-8	Project Area	30	Index #	20150039.28

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station #5

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	NA
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #5
Area 30, Pit for Previously Removed Lift Station at F-8, Index No. 20150039.28 – Inspected and Sampled on 1/19/2016

Pre-Removed Lift Station Center Stainless Steel Lined Pit



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	M-7	Project Area	30	Index #	20150039.29

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station #9

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #9
Area 30, Pit for Previously Removed Lift Station at M-7, Index No. 20150039.29 – Inspected and Sampled on 1/20/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	T-10	Project Area	36	Index #	20150039.43

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2275

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/14/2016	

Pictures:	Attached
Data:	Table 8
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2275
Area 36, Lift Station at T-10, Index No. 20150039.43 – Clean Removal Verified 1/14/2016

Pre-Removal 2-Gallon Bucket Tank and Pump (Below View)



Lift Station Removed



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	R-9	Project Area	37	Index #	20150039.44

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #95

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/22/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/22/2016	

Pictures:	Attached
Data:	Table 10
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #95
Area 37, Lift Station at R-9, Index No. 20150039.44 – Clean Removal Verified 2/22/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	R-9	Project Area	37	Index #	20150039.45

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #96

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/14/2016	

Pictures:	Attached
Data:	Table 10
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #96
Area 37, Lift Station at R-9, Index No. 20150039.45 – Clean Removal Verified 1/14/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-13	Project Area	49	Index #	20150039.46

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #12

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/24/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/24/2016	

Pictures:	Attached
Data:	Table 22
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #12
Area 49, Lift Station at E-13, Index No. 20150039.46 – Clean Removal Verified 2/24/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-14	Project Area	52	Index #	20150039.47

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #59

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

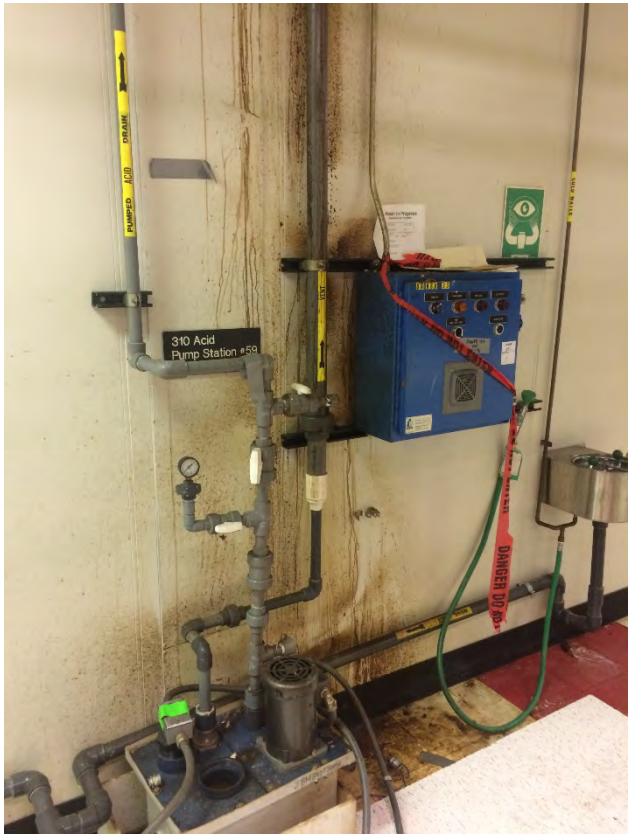
Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/22/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/22/2016	

Pictures:	Attached
Data:	Table 19
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #59
Area 52, Lift Station at F-14, Index No. 20150039.47 – Clean Removal Verified 2/22/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-14	Project Area	52	Index #	20150039.48

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #61

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/22/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/22/2016	

Pictures:	Attached
Data:	Table 19
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #61
Area 52, Lift Station at F-14, Index No. 20150039.48 – Clean Removal Verified 2/22/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-15	Project Area	52	Index #	20150039.49

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

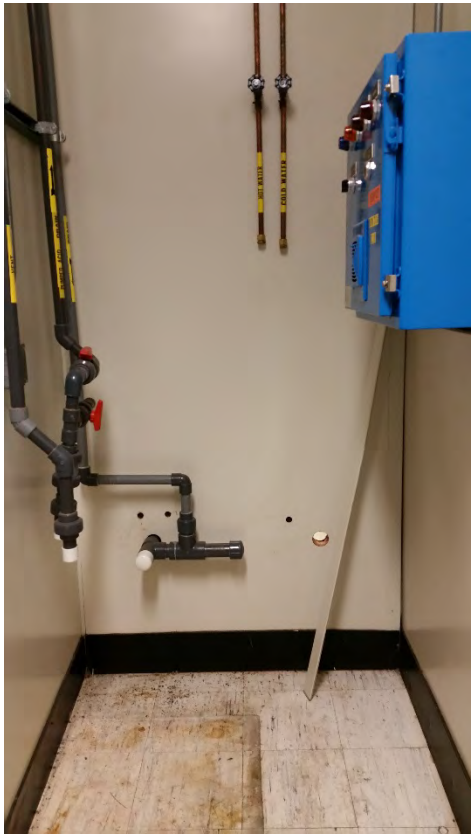
1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station – Unlabeled
Area 52, Lift Station at H-15, Index No. 20150039.49 – Removed Prior to 11/25/2015

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-17	Project Area	56	Index #	20150039.51

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2377

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			7/19/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	7/19/2016	

Pictures:	Attached
Data:	Table 28
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2377
Area 56, Lift Station at H-17, Index No. 20150039.51 – Clean Removal Verified 7/19/2016

Pre-Removal



Decontaminated Pump



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-17	Project Area	57	Index #	20150039.52

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2376

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/24/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/24/2016	

Pictures:	Attached
Data:	Table 21
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2376
Area 57, Lift Station at G-17, Index No. 20150039.52 – Clean Removal Verified 2/24/2016

Pre-Removal



Decontaminated Pump



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	D-19	Project Area	60	Index #	20150039.53

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #49

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			7/19/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	7/19/2016	

Pictures:	Attached
Data:	Table 11
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #49
Area 60, Lift Station at D-19, Index No. 20150039.53 – Clean Removal Verified 7/19/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-19	Project Area	60	Index #	20150039.54

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #71

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			7/28/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	7/28/2016	

Pictures:	Attached
Data:	Table 11
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #71
Area 60, Lift Station at E-19, Index No. 20150039.54 – Clean Removal Verified 7/28/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-20	Project Area	60	Index #	20150039.55

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #50

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/20/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	Attached
Data:	Table 11
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Pre-Removal - Lift Station in Secondary Containment Pit



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #50
Area 60, Lift Station at E-20, Index No. 20150039.55 – Clean Removal Verified 1/20/2016

Decontaminated Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	D-20	Project Area	60	Index #	20150039.56

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #48

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/14/2016	

Pictures:	Attached
Data:	Table 11
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #48
Area 60, Lift Station at D-20, Index No. 20150039.56 – Clean Removal Verified 1/14/2016

Pre-Removal Lift Station Under Sink



Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-19	Project Area	61	Index #	20150039.57

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station #32

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/18/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/18/2016	

Pictures:	Attached
Data:	Table 12
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #32
Area 61, Lift Station at B-19, Index No. 20150039.57 – Clean Removal Verified 1/18/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-20	Project Area	61	Index #	20150039.58

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #91

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/22/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/22/2016	

Pictures:	Attached
Data:	Table 12
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #91
Area 61, Lift Station at B-20, Index No. 20150039.58 – Clean Removal Verified 2/22/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-19	Project Area	61	Index #	20150039.59

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #92, Near Areas 33 & 34

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	NA
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #92
Area 61, Lift Station at B-20, Index No. 20150039.59 – Removed Prior to 11/25/2015

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-19	Project Area	65	Index #	20150039.61

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #90

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			7/28/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	7/28/2016	

Pictures:	Attached
Data:	Table 30
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #90
Area 65, Lift Station at B-19, Index No. 20150039.61 – Clean Removal Verified 7/28/2016

Pre-Removal



Decontaminated Lift Station Pump Unit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-21	Project Area	66	Index #	20150039.62

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2468

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			7/19/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	7/19/2016	

Pictures:	Attached
Data:	Table 27
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2468
Area 66, Lift Station at C-21, Index No. 20150039.62 – Clean Removal Verified 7/19/2016

Pre-Removal



Decontaminated Pump



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-23	Project Area	68	Index #	20150039.63

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #24

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			8/18/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	8/18/2016	

Pictures:	Attached
Data:	Table 31
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

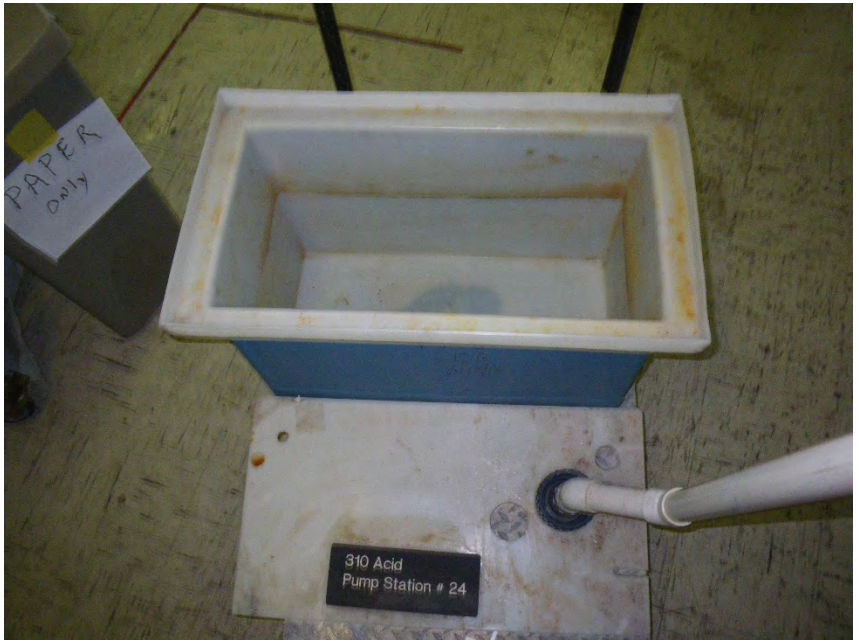
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #24
Area 68, Lift Station at E-23, Index No. 20150039.63 – Clean Removal Verified 8/18/16

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-23 (west)	Project Area	69	Index #	20150039.64

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station #57

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/13/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 31
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #57
Area 69, Lift Station at C-23 (West), Index No. 20150039.64 – Clean Removal Verified 1/13/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	D-24	Project Area	69	Index #	20150039.65

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station #40

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/13/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 4
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #40
Area 69, Lift Station at D-24, Index No. 20150039.65 – Clean Removal Verified 1/13/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-24	Project Area	69	Index #	20150039.66

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Covered Pit for Previously Removed Unlabeled Acid Lift Station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			9/6/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	9/6/2016	

Pictures:	Attached
Data:	Table 4
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station - Unlabeled
Area 69, Pit for Previously Removed Lift Station at E-24, Index No. 20150039.66 – Inspected and Sampled on 9/6/2016

Previously Removed Lift Station Covered Pit



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-24 (west)	Project Area	69	Index #	20150039.67

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Slurry Lift Station (Unlabeled)

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/13/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 4
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station – Unlabeled Number Area 69, Pit for Previously Removed Slurry Lift Station at C-24 (west), Index No. 20150039.67 – Inspected and Sampled on 1/13/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-24 (east)	Project Area	70	Index #	20150039.68

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station (Unlabeled)

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/13/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 5
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station - Unlabeled
Area 70, Pit for Previously Removed Lift Station at C-24 (east), Index No. 20150039.68 – Inspected and Sampled on 1/13/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	A-24	Project Area	70	Index #	20150039.69

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station #42

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/13/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 5
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #42
Area 70, Pit for Previously Removed Lift Station at A-24, Index No. 20150039.69 – Inspected and Sampled on 1/13/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-25 (east)	Project Area	70	Index #	20150039.71

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Acid Lift Station #45

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

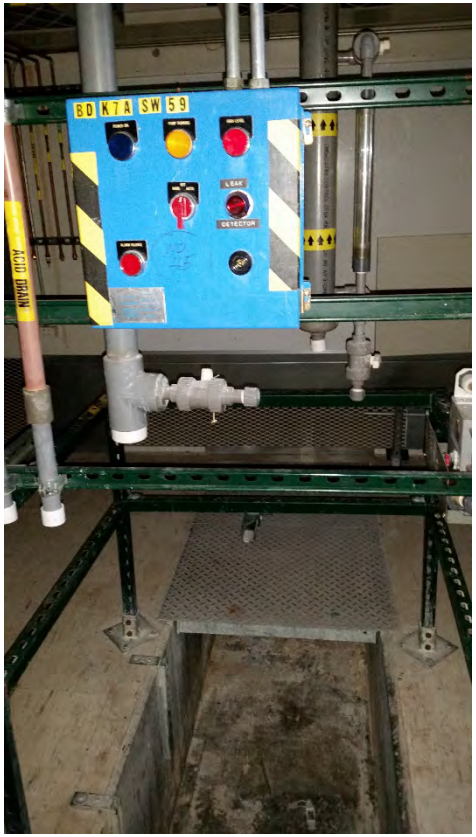
Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/13/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 5
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station #45
Area 70, Pit for Previously Removed Lift Station at C-25 (east), Index No. 20150039.71 – Inspected and Sampled on 1/13/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-25	Project Area	70	Index #	20150039.72 20150039.73

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Small Pits for two Previously Removed Unlabeled Acid Lift Stations

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

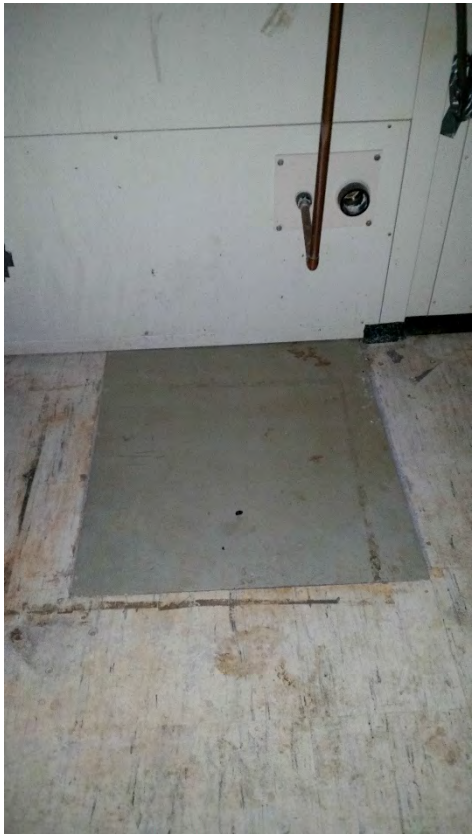
1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/18/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/18/2016	

Pictures:	Attached
Data:	Table 5
Notes:	Secondary containment pits were pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station – Unknown
Area 70, Trench for Previously Removed Lift Station at B-25, Index No. 20150039.72 – Inspected and Sampled on 1/18/2016

Previously Removed Lift Station Covered Pit

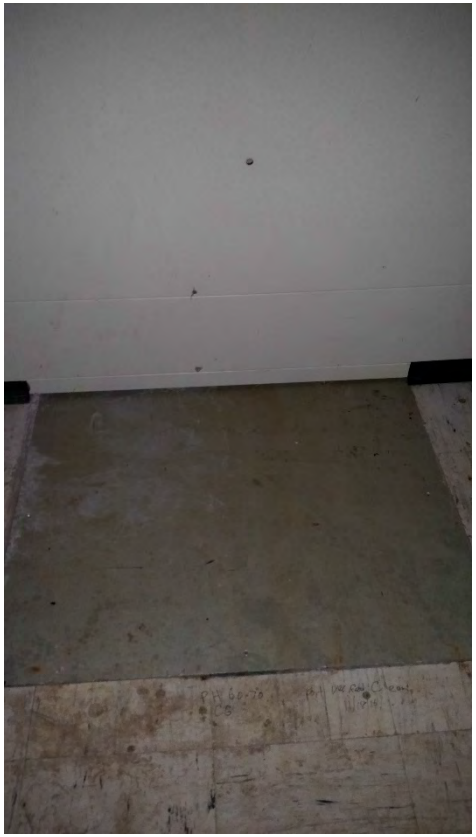


Decontaminated Pit



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station – Unknown
Area 70, Trench for Previously Removed Lift Station at B-25, Index No. 20150039.73 – Inspected and Sampled on 1/18/2016

Previously Removed Lift Station Covered Pit



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	B-25	Project Area	70	Index #	20150039.74

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Pit for Previously Removed Slurry Lift Station #3

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/18/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/18/2016	

Pictures:	Attached
Data:	Table 5
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station Slurry #3
Area 70, Trench for Previously Removed Lift Station at B-25, Index No. 20150039.74 – Inspected and Sampled on 1/18/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	C-25 (east)	Project Area	70	Index #	20150039.75

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #47

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	E-25	Project Area	72	Index #	20150039.76

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2477

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			7/19/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	7/19/2016	

Pictures:	Attached
Data:	Table 29
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2477
Area 72, Lift Station at E-25, Index No. 20150039.76 – Clean Removal Verified 7/19/2016

Pre-Removal



Decontaminated Pump Unit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	X-10	Project Area	Near 33	Index #	20150039.87

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2304

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/14/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/14/2016	

Pictures:	Attached
Data:	Table 7
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2304
Near Area 33, Lift Station at X-10, Index No. 20150039.87 – Clean Removal Verified 1/14/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	X-10	Project Area	Near 33 & 34	Index #	20150039.88

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #93

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	NA
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	X-10	Project Area	Near 33 & 34	Index #	20150039.89

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Previously Removed Acid Lift Station #35

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	NA
Data:	NA
Notes:	Acid lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-17	Project Area	Near 52	Index #	20150039.91

SWMU Name:	B/310 LS IW
SWMU Description:	Industrial Wastewater Lift Stations
SWMU Component:	Acid Lift Station ECOL #2263

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			2/24/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	2/24/2016	

Pictures:	Attached
Data:	Table 19
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS IW – Industrial Wastewater Lift Station ECOL #2263
Near Area 52, Lift Station at F-17, Index No. 20150039.91 – Clean Removal Verified 2/24/2016

Pre-Removal



Decontaminated Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-24	Project Area	1	Index #	20150040.1

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Solvent Lift station - Brass Tag # ECOL 2363

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
12. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
11. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Clean for Scrap Recycling			1/4/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/4/2016	

Pictures:	Attached
Data:	Table 2
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station ECOL #2363
Area 1, Lift Station at H-24, Index No. 20150040.1 – Clean Removal Verified 1/4/2016

Pre-Removal



Decontaminated



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-4.5	Project Area	4	Index #	20150040.2

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Previously Removed Solvent Lift station #3

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	Attached
Data:	Table 14
Notes:	Solvent lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #3
Area 4, Lift Station at G-4.5, Index No. 20150040.2 - Removed Prior to 11/25/2015

Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-4.5	Project Area	4	Index #	20150040.3

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Solvent MW (mixed waste) Lift station #2

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Solvent lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #2– Mixed Waste
Area 4, Lift Station at H-4.5, Index No. 20150040.3 – Removed Prior to 11/25/2015

Previously Removed Lift Station





SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	H-4.5	Project Area	4	Index #	20150040.4

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Solvent Lift station #1

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Solvent lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station





SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	A-2.5	Project Area	13	Index #	20150040.5

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Trench and Sump Pit for Previously Removed Solvent Lift Station #11 (drain pipe in trench)

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Fail		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents	X			Fail		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/21/2016	
2. Date Containment Pit/Trench Verified Clean			1/212016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Inactive	Status Change Date:	9/9/2016	

Pictures:	Attached
Data:	Table 13
Notes:	Secondary containment pit for previously removed sump tank and floor trench for drain pipes were pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition on 1/21/2016. Drain pipes in trench were flushed with facility water and were verified to be debris free and tested with Hydrion pH test strips to verify neutral range (pH 5-8) on 1/21/2016. Decontaminated steel drain pipes were recycled at Millens Metal Recycling, Kingston, NY. Trench failed integrity inspection on 6/6/2016 based on minor to significant visible erosion of epoxy cement liner in the trench system. Representative core samples (July-August 2016) through the most degraded trench liner sections and analyzed for solvents dispensed in the room confirm liner failure within a 3 ft. section based on presence of trace IPA (45 ppm) in underlying concrete. Status changed from "Active" to 'Inactive" pendng further investigation.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #11
Area 13, Secondary Sump Pit for Previously Removed Lift Station at A-2.5, Index No. 20150040.5 – Debris-Free Sump Pit Verified 1/20/2016

Previously Removed Lift Station



Decontaminated Secondary Sump Pit for Previously Removed Sump Tank



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #11
Area 13, Trench for Previously Removed Lift Station at A-2.5, Index No. 20150040.5 – Debris-Free Trench Verified 1/20/2016, Failed Integrity Inspection 6/6/2016, Six Trench Bottom Samples Collected 7/27/16 and Two Concrete Samples Beneath Liner Collected 8/17/16

Decontaminated Trench with Degraded Epoxy Cement Liner



Decontaminated Trench with Degraded Epoxy Cement Removed



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	A-1	Project Area	13	Index #	20150040.6
SWMU Name:	B/310 LS SO								
SWMU Description:	Solvent Waste Lift Stations								
SWMU Component:	Trench and Sump Pit for Previously Removed Solvent Lift Station #13 (drain pipe in trench)								

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity		X		Fail		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents	X			Pass		
11. SWMU Tank/Pipes Approved and Removed From Facility	X					Millens
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/21/2016	
2. Date Containment Pit/Trench Verified Clean			1/21/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	9/9/2016	

Pictures:	Attached
Data:	Table 13
Notes:	Secondary containment pit for previously removed sump tank and floor trench for drain pipes were pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition on 1/21/2016. Drain pipes in trench were flushed with facility water and were verified to be debris free and tested with Hydrion pH test strips to verify neutral range (pH 5-8) on 1/21/2016. Decontaminated steel drain pipes were recycled at Millens Metal Recycling, Kingston, NY. Trench failed integrity inspection on 6/6/2016 based on minor visible erosion of epoxy cement liner. Representative core samples through the most eroded trench liner sections (July 28 2016) and analyzed for the solvents dispensed in this room confirm clean closure due to absence of residual solvents in the liner and underlying concrete.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #13
Area 13, Secondary Sump Pit at End of Trench for Previously Removed Lift Station at A-1, Index No. 20150040.6 – Debris-Free Sump Pit Verified on 1/21/2016

Previously Removed Lift Station



Decontaminated Secondary Sump Pit for Previously Removed Sump Tank



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #13
Area 13, Trench for Previously Removed Lift Station at A-1, Index No. 20150040.6 – Debris-Free Trench Verified on 1/21/2016, Failed Integrity Inspection on 6/6/2016, Trench Bottom Sampled 7/27/16, PID Readings Attributable to Epoxy Cement Lining Heated by Drill Bit Friction

Representative Trench Sample Location



Decontaminated Epoxy Cement Trench



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	F-8	Project Area	30	Index #	20150040.7

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Pit for Previously Removed Solvent Lift station #6

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station #6
Area 30, Pit for Previously Removed Lift Station at F-8, Index No. 20150040.7 – Inspected and Sampled on 1/19/2016

Previously Removed Lift Station Solvent Far Right Stainless Steel



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	G-9	Project Area	30	Index #	20150040.8

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Pit for Previously Removed Solvent-SM (solvents mixed) Lift station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/19/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/19/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station - Unlabeled
Area 30, Pit for Previously Removed Lift Station at G-9, Index No. 20150040.8 – Inspected and Sampled on 1/19/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	M-7	Project Area	30	Index #	20150040.9

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Pit for Previously Removed Solvent-SM (solvents mixed) Lift station

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity	X			Pass		
9.Spill Containment Pit/Trench Sampled for Surface pH	X			Pass		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place	X					

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			NA	
2. Date Containment Pit/Trench Verified Clean			1/20/2016	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/20/2016	

Pictures:	Attached
Data:	Table 9
Notes:	Secondary containment pit was pressure washed and dried, tested for pH with Hydrion test strips to verify neutral range (pH 5-8), and visually inspected to verify general integrity and debris-free condition.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station – Unlabeled
Area 30, Pit for Previously Removed Lift Station at M-7, Index No. 20150040.9 – Inspected and Sampled on 1/20/2016

Previously Removed Lift Station



Decontaminated Pit



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	D-22	Project Area	64	Index #	20150040.11

SWMU Name:	B/310 LS SO
SWMU Description:	Solvent Waste Lift Stations
SWMU Component:	Solvent Lift station stored on floor / No Label / New Condition

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Drained			X	NA	NA	
4. Solid Residuals Removed			X	NA	NA	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	Millens
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			1/13/2016	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	1/13/2016	

Pictures:	Attached
Data:	Table 7
Notes:	Visual inspection for debris free condition and pH verification with Hydrion test strips was conducted upon completion of lift station dismantling and decontamination. Metal was separated and recycled as scrap metal by Millens Metal Recycling, Kingston, NY. Plastic components were separated and disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.

Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station - Unlabeled
Area 64, Lift Station Stored on Floor at D-22, Index No. 20150040.11 – Inspected and Sampled on 1/13/2016

Pre-Removal



Decontaminated



SOLID WASTE MANAGEMENT UNIT
CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	X-10	Project Area	Near 33 & 34	Index #	20150040.12 20150040.13 20150040.14 20150040.15
SWMU Name:	B/310 LS SO								
SWMU Description:	Solvent Waste Lift Stations								
SWMU Component:	4 Solvent Unlabeled Lift stations								

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination		X				
2. Pictures Taken Post-Removal	X					
3. Fluids Drained			X	NA		
4. Solid Residuals Removed			X	NA		
5.Tank/Pipes Visually Inspected for Integrity			X	NA		
6.Tank/Pipes Sampled for Surface pH			X	NA		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			X	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			X	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			X	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility			X			
12. SWMU Containment Pit/Trench Approved for Backfill in Place			X			

Closure and Removal Dates

1. Date Tank/Pipes Verified Decontaminated for Disposal			Removed prior to 11/25/2015	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Component Removed	Status Change Date:	11/25/2015	

Pictures:	Attached
Data:	NA
Notes:	Solvent lift station was removed prior to B310 SWMU inventory reconnaissance on 11/25/2015.

Signature	Raymond Kapp
ARCADIS Representative	Raymond Kapp

Previously Removed Lift Station



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310 LS SO – Solvent Wastewater Lift Station - Unlabeled
Near Area 33 & 34, Lift Station at X-10, Index No. 20150040.13 – Removed Prior to 11/25/2015

Previously Removed Lift Station



Previously Removed Lift Station



Previously Removed Lift Station



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	NA	Project Area	NA	Index #	20150041

SWMU Name:	B310-SO (2)
SWMU Description:	Solvent Waste Transfer Piping
SWMU Component:	Includes all above-ground Solvent Waste transfer piping within B/310

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Flushed and Drained	X			Pass	See Note	
4. Solid Residuals Removed	X			See Note	See Note	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			See note		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			NA	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			NA	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			NA	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			NA			

Closure and Removal Dates

1. Date Tank/Pipes Verified Clean for Scrap Recycling (carbon and stainless steel) or staged for Disposal.			Ongoing	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Removed	Status Change Date:	Ongoing	

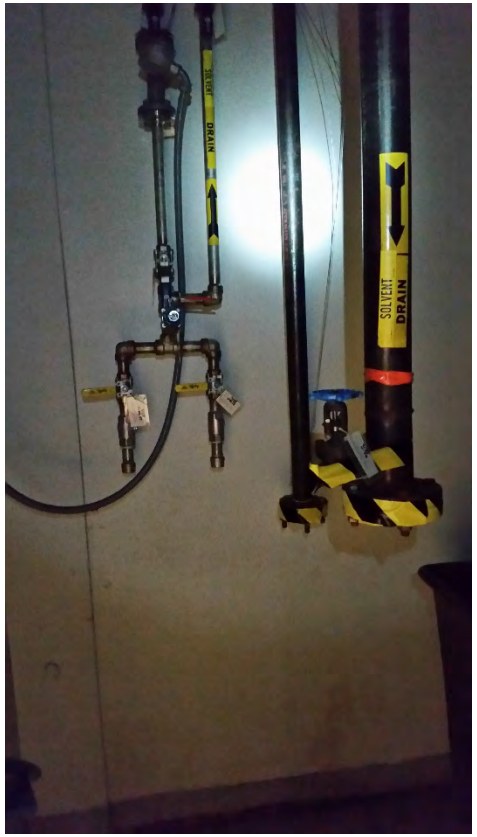
Pictures:	Attached
Data:	Table 18
Notes:	Solvent waste transfer piping (carbon steel and stainless steel) was cleaned by Techtron with high pressure wash and inspected by Arcadis to verify a debris-free condition. Carbon steel and stainless steel pipes that passed inspection for debris free condition were recycled at Millens Metal Recycling, Kingston, NY. Sections of carbon steel solvent piping that could not be completely cleaned to meet debris-free criteria, were sized and placed in Gaylord boxes for offsite hazardous waste incineration at Clean Harbors, Eldorado, Arkansas. Drummed solvent fluids Wash water generated by decontamination was treated onsite. Solvent contaminated solids went to Safety Kleen in Smithfield, Kentucky for fuels blending.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-SO (2) – Solvent Waste transfer piping
Includes all above-ground Solvent Waste transfer piping within B/310, Index No. 20150041 – Status Ongoing

Pre-Removal



Pre-Removal



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-SO (2) – Solvent Waste transfer piping
Includes all above-ground Solvent Waste transfer piping within B/310, Index No. 20150041 – Status Ongoing

Removed For Decontamination



Decontaminated

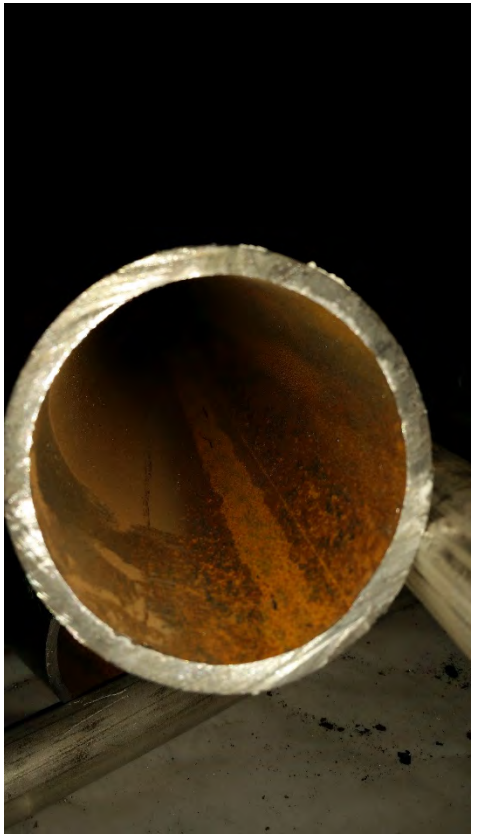


Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-SO (2) – Solvent Waste transfer piping
Includes all above-ground Solvent Waste transfer piping within B/310, Index No. 20150041 – Status Ongoing

Pre-Decontaminated



Decontaminated



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-SO (2) – Solvent Waste transfer piping
Includes all above-ground Solvent Waste transfer piping within B/310, Index No. 20150041 – Status Ongoing

Decontaminated



Decontaminated



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-SO (2) – Solvent Waste transfer piping
Includes all above-ground Solvent Waste transfer piping within B/310, Index No. 20150041 – Status Ongoing

Decontaminated



Decontaminated



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-SO (2) – Solvent Waste transfer piping
Includes all above-ground Solvent Waste transfer piping within B/310, Index No. 20150041 – Status Ongoing

Decontaminated



Decontaminated



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	NA	Project Area	NA	Index #	20150042

SWMU Name:	B310-FL (2)
SWMU Description:	Fluoride/Heavy Metals Wastewater Transfer Piping
SWMU Component:	Includes all above-ground Fluoride/Heavy Metal waste transfer piping within B/310

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Flushed and Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed	X			Pass	IBM WWTP	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			NA	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			NA	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			NA	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	See Note
12. SWMU Containment Pit/Trench Approved for Backfill in Place			NA			

Closure and Removal Dates

1. Date Tank/Pipes Verified Clean for Scrap Recycling (Stainless Steel) or Decontaminated for Disposal (PVC)			Ongoing	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Removed	Status Change Date:	Ongoing	

Pictures:	Attached
Data:	Table 18
Notes:	Decontamination of fluoride/heavy metal wastewater transfer piping was confirmed with pH test strips and visually inspected to verify debris free condition. Decontaminated PVC piping was disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY. Decontaminated steel secondary containment piping was recycled at Millens Metal Recycling, Kingston, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-FL (2) – Fluoride Waste transfer piping
Includes all above-ground Fluoride Waste transfer piping within B/310, Index No. 20150042 – Status Ongoing

Pre-Removal



Pre-Removal



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-FL (2) – Fluoride Waste transfer piping
Includes all above-ground Fluoride Waste transfer piping within B/310, Index No. 20150042 – Status Ongoing

Removed



Decontaminated



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-FL (2) – Fluoride Waste transfer piping
Includes all above-ground Fluoride Waste transfer piping within B/310, Index No. 20150042 – Status Ongoing

Decontaminated

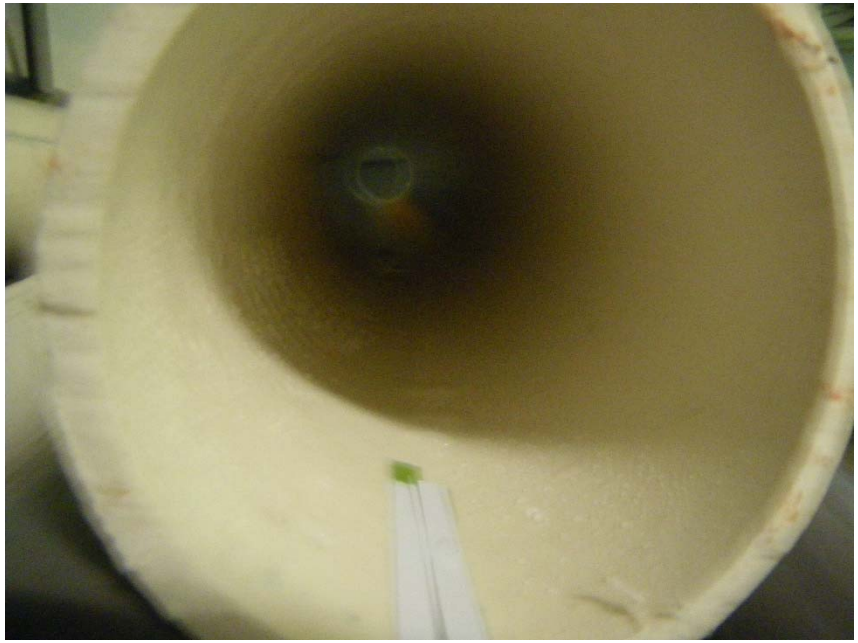


Decontaminated

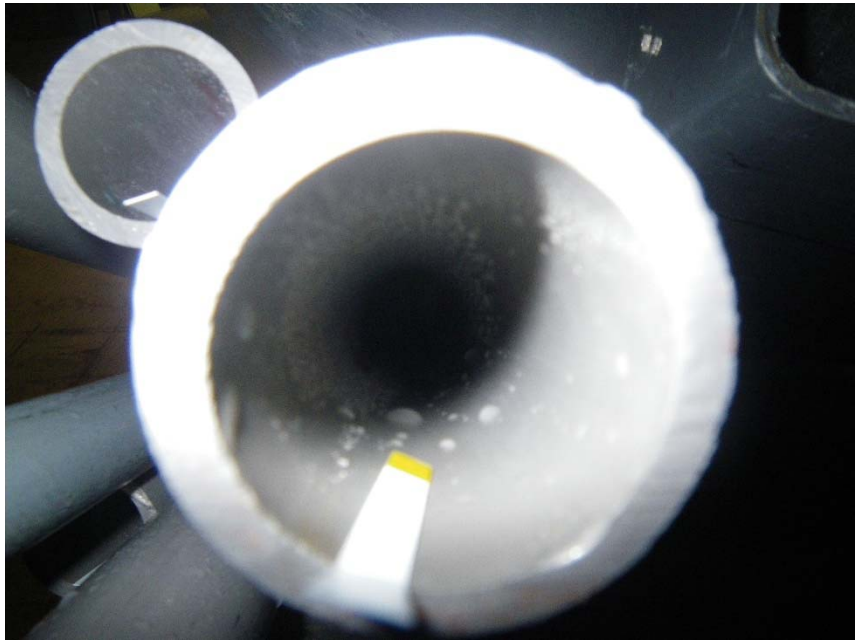


Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-FL (2) – Fluoride Waste transfer piping
Includes all above-ground Fluoride Waste transfer piping within B/310, Index No. 20150042 – Status Ongoing

Decontaminated



Decontaminated



SOLID WASTE MANAGEMENT UNIT CLOSURE CHECKLIST

Site Name & Location	IBM/GF, East Fishkill, NY	Building	310	Column References	NA	Project Area	NA	Index #	20150043

SWMU Name:	B310-IW (2)
SWMU Description:	Industrial Wastewater Transfer Piping
SWMU Component:	Includes all above-ground Industrial Wastewater transfer piping within B/310

Decommissioning Record

Environmental Items:	Yes	No	Not Required/ None	Test and Inspection Results Pass/Fail	Disposal Facility Name	Recycle Facility Name
1. Pictures Taken Pre-Decontamination	X					
2. Pictures Taken Post-Decontamination	X					
3. Fluids Flushed and Drained	X			Pass	IBM WWTP	
4. Solid Residuals Removed	X			Pass	IBM WWTP	
5.Tank/Pipes Visually Inspected for Integrity	X			Pass		
6.Tank/Pipes Sampled for Surface pH	X			Pass		
7.Tank/Pipes Sampled for Other Waste Constituents			X	NA		
8.Spill Containment Pit/Trench Visually Inspected for Integrity			NA	NA		
9.Spill Containment Pit/Trench Sampled for Surface pH			NA	NA		
10.Spill Containment Pit/Trench Sampled for Other Constituents			NA	NA		
11. SWMU Tank/Pipes Approved and Removed From Facility	X				See Note	
12. SWMU Containment Pit/Trench Approved for Backfill in Place			NA			

Closure and Removal Dates

1. Date Tank/Pipes Verified Clean for Scrap Recycling (Stainless Steel) or Decontaminated for Disposal (PVC)			Ongoing	
2. Date Containment Pit/Trench Verified Clean			NA	
3. SWMU Status (Removed, Component Removed, Closed in Place)	Removed	Status Change Date:	Ongoing	

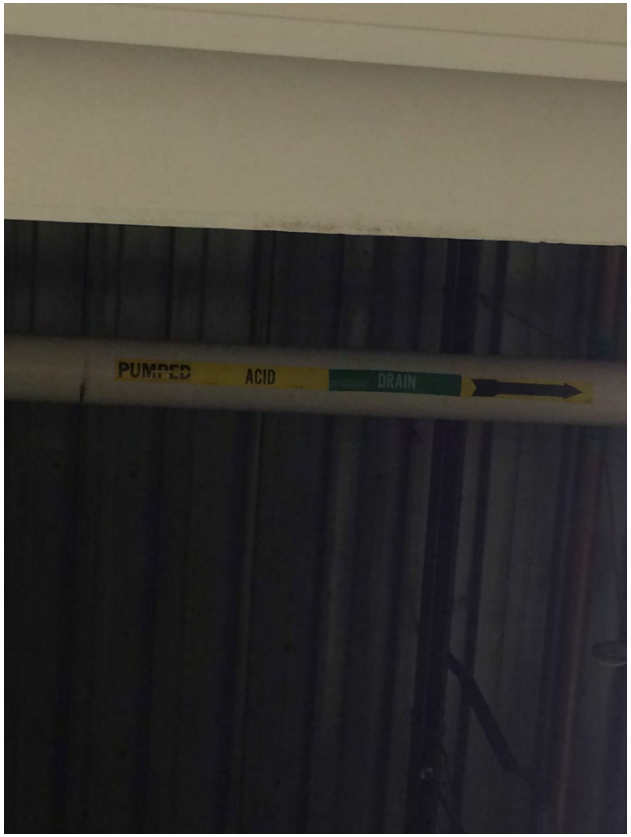
Pictures:	Attached
Data:	Table 18
Notes:	Decontamination of industrial (acid and slurry) wastewater transfer piping was confirmed with pH test strips and visually inspected to verify debris free condition. Decontaminated PVC piping was disposed with the rest of the non-hazardous construction and demolition debris transported to the Seneca Meadows Landfill, Waterloo, NY and the Ontario County Landfill, Stanley, NY.
Signature	Christopher Goldsmith
ARCADIS Representative	Christopher Goldsmith

Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-IW (2) – Industrial Waste transfer piping
Includes all above-ground Industrial Waste transfer piping within B/310, Index No. 20150043 – Status Ongoing

Pre-Removal



Pre-Removal



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-IW (2) – Industrial Waste transfer piping
Includes all above-ground Industrial Waste transfer piping within B/310, Index No. 20150043 – Status Ongoing

Removed



Decontaminated



Building 310 DCAP End of Life Project SWMU Removal Documentation
SWMU B/310-IW (2) – Industrial Waste transfer piping
Includes all above-ground Industrial Waste transfer piping within B/310, Index No. 20150043 – Status Ongoing

Decontaminated



Decontaminated



Attachment B

Solid Waste Management Unit

Decontamination Verification Data

Tables



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Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
11/19/2015	310	6	B/310 LS IW	2374-1	5.5		Piping coming out of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/19/2015	310	6	B/310 LS IW	2374-2	5.5		Piping coming out of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/19/2015	310	6	B/310 LS IW	2374-3	5.5		Piping coming out of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/19/2015	310	6	B/310 LS IW	2374-4	6.0		Piping coming out of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/19/2015	310	6	B/310 LS IW	2374-5	5.5		Exterior surface of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/19/2015	310	6	B/310 LS IW	2374-6	5.5		Inside tank of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/19/2015	310	6	B/310 LS IW	2371-1	6.0		Piping coming out of acid lift station # 19 (Ecol # 2371) at column G-19 .
11/19/2015	310	6	B/310 LS IW	2371-2	6.0		Piping coming out of acid lift station # 19 (Ecol # 2371) at column G-19 .
11/19/2015	310	6	B/310 LS IW	2371-3	5.5		Exterior surface of acid lift station # 19 (Ecol # 2371) at column G-19 .
11/19/2015	310	6	B/310 LS IW	2371-4	5.5		Inside tank of acid lift station # 19 (Ecol # 2371) at column G-19 .
11/19/2015	310	6	B/310 LS FL	2372-1	6.0		Piping coming out of fluoride lift station # 7 (Ecol # 2372) at column G-20 .

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
11/19/2015	310	6	B/310 LS FL	2372-2	6.0		Piping coming out of fluoride lift station # 7 (Ecol # 2372) at column G-20 .
11/19/2015	310	6	B/310 LS FL	2372-3	5.5		Exterior surface of fluoride lift station # 7 (Ecol # 2372) at column G-20 .
11/19/2015	310	6	B/310 LS FL	2372-4	5.5		Inside tank of fluoride lift station # 7 (Ecol # 2372) at column G-20 .
11/24/2015	310	6	B/310 LS IW	2374-7	6.0		Inside tank after being wiped out, of acid lift station # 21 (Ecol # 2374) at column G-20 ..
11/24/2015	310	6	B/310 LS IW	2374-8	6.0		Inside catch pan of acid lift station # 21 (Ecol # 2374) at column G-20 .
11/24/2015	310	6	B/310 LS IW	2371-5	6.0		Inside tank after being wiped out, of acid lift station # 19 (Ecol # 2371) at column G-19 .
11/24/2015	310	6	B/310 LS IW	2371-6	6.0		Inside catch pan of acid lift station # 19 (Ecol # 2371) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2372-5	6.0		Inside tank after being wiped out, of fluoride lift station # 7 (Ecol # 2372) at column G-20 .
11/24/2015	310	6	B/310 LS FL	2372-6	6.0		Inside catch pan of fluoride lift station # 7 (Ecol # 2372).
11/24/2015	310	6	B/310 LS FL	Acid15-1	6.0		Piping coming out of acid lift station # 15 at column F-21 .
11/24/2015	310	6	B/310 LS FL	Acid15-2	5.5		Exterior surface of acid lift station # 15 at column F-21 .

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
11/24/2015	310	6	B/310 LS FL	Acid15-3	5.5		Vent piping coming out of acid lift station # 15 at column F-21 .
11/24/2015	310	6	B/310 LS FL	Acid15-4	5.5		Vent piping coming out of acid lift station # 15 at column F-21 .
11/24/2015	310	6	B/310 LS FL	Acid15-5	7.0		Inside tank of acid lift station # 15 at column F-21 .
11/24/2015	310	6	B/310 LS FL	Acid15-6	6.5		Inside catch pan of acid lift station # 15 at column F-21 .
11/24/2015	310	6	B/310 LS FL	2370-1	5.0		Acid drain piping coming out of acid lift station # 18 (ECOL # 2370) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2370-2	5.0		Acid drain piping coming out of acid lift station # 18 (ECOL # 2370) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2370-3	5.5		Acid vent piping coming out of acid lift station # 18 (ECOL # 2370) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2370-4	5.5		Acid vent piping coming out of acid lift station # 18 (ECOL # 2370) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2370-5	5.5		Inside tank of acid lift station # 18 (ECOL # 2370) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2370-6	5.0		Inside catch pan of acid lift station # 18 (ECOL # 2370) at column G-19 .
11/24/2015	310	6	B/310 LS FL	2368-1	5.5		Fluoride vent piping coming out of fluoride lift station # 5 (ECOL # 2368) at column F-19 .

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
11/24/2015	310	6	B/310 LS FL	2368-2	5.0		Fluoride drain piping coming out of fluoride lift station # 5 (ECOL # 2368) at column F-19 .
11/24/2015	310	6	B/310 LS FL	2368-3	5.5		Exterior of fluoride lift station # 5 (ECOL # 2368) at column F-19 .
11/24/2015	310	6	B/310 LS FL	2368-4	5.5		Inside tank of fluoride lift station # 5 (ECOL # 2368) at column F-19 .
11/24/2015	310	6	B/310 LS FL	2368-5	7.0		Inside catch pan of fluoride lift station # 5 (ECOL # 2368) at column F-19 .
11/25/2015	310	6	B/310 LS FL	2367-1	5.5		Acid vent piping coming out of acid lift station # 13 (ECOL # 2367) at column F-19 .
11/25/2015	310	6	B/310 LS FL	2367-2	5.5		Acid drain piping coming out of acid lift station # 13 (ECOL # 2367) at column F-19 .
11/25/2015	310	6	B/310 LS FL	2367-3	5.5		Exterior of acid lift station # 13 (ECOL # 2367) at column F-19 .
11/25/2015	310	6	B/310 LS FL	2367-4	5.5		Inside tank of acid lift station # 13 (ECOL # 2367) at column F-19 .
11/25/2015	310	6	B/310 LS FL	2367-5	7.0		Inside catch pan of acid lift station # 13 (ECOL # 2367) at column F-19 .
12/10/2015	310	6	B310-IW (2)	B310-IW(2)-1	5.5		Vertical pumped acid effluent pipe from lift station to ceiling
12/10/2015	310	6	B310-IW (2)	B310-IW(2)-2	5.5		Vertical pumped acid effluent pipe from lift station to ceiling

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
12/10/2015	310	6	B310-IW (2)	B310-IW(2)-3	5.5		Vertical pumped acid effluent pipe from lift station to ceiling
12/10/2015	310	6	B310-IW (2)	B310-IW(2)-4	5.5		Vertical pumped acid effluent pipe from lift station to ceiling
12/10/2015	310	6	B310-FL (2)	B310-FL(2)-1	5.5		Vertical pumped fluoride effluent pipe from lift station to ceiling
12/10/2015	310	6	B310-FL (2)	B310-FL(2)-2	5.5		Vertical pumped fluoride effluent pipe from lift station to ceiling
12/10/2015	310	6	B310-FL (2)	B310-FL(2)-3	5.5		Vertical pumped fluoride effluent pipe from lift station to ceiling
12/10/2015	310	6	B310-FL (2)	B310-FL(2)-4	5.5		Vertical pumped fluoride effluent pipe from lift station to ceiling
1/4/2016	310	6	B/310 LS FL	2369-1	5.5		Fluoride lift station #6 (ECOL # 2369) tank interior bottom
1/4/2016	310	6	B/310 LS FL	2369-2	5.5		Fluoride lift station #6 (ECOL # 2369) tank interior sidewall
1/4/2016	310	6	B/310 LS FL	2369-3	5.5		Fluoride lift station #6 (ECOL # 2369) tank exterior outlet
1/4/2016	310	6	B/310 LS FL	2369-4	5.5		Fluoride lift station #6 (ECOL # 2369) tank exterior cover
1/4/2016	310	6	B/310 LS FL	2369-5	5.5		Fluoride lift station #6 (ECOL # 2369) pump pipe inside tank

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/4/2016	310	6	B/310 LS FL	2369-6	5.5		Fluoride lift station #6 (ECOL # 2369) pump mixer inside tank
1/4/2016	310	6	B/310 LS FL	2369-7	5.5		Fluoride lift station #6 (ECOL # 2369) pump vent at outlet
1/4/2016	310	6	B/310 LS FL	2369-8	5.5		Fluoride lift station #6 (ECOL # 2369) pump at tank cover
1/4/2016	310	6	B/310 LS FL	2373-1	6.0		Fluoride lift station #8 (ECOL # 2373) tank interior bottom
1/4/2016	310	6	B/310 LS FL	2373-2	5.5		Fluoride lift station #8 (ECOL # 2373) tank interior sidewall
1/4/2016	310	6	B/310 LS FL	2373-3	5.5		Fluoride lift station #8 (ECOL # 2373) tank exterior outlet
1/4/2016	310	6	B/310 LS FL	2373-4	5.5		Fluoride lift station #8 (ECOL # 2373) Pump # 1 intake pipe
1/4/2016	310	6	B/310 LS FL	2373-5	5.5		Fluoride lift station #8 (ECOL # 2373) Pump # 2 intake pipe
1/4/2016	310	6	B/310 LS FL	2373-6	5.5		Fluoride lift station #8 (ECOL # 2373) cleanout at cover
1/4/2016	310	6	B/310 LS FL	2373-7	5.5		Fluoride lift station #8 (ECOL # 2373) vent pipe outlet
1/4/2016	310	6	B/310 LS FL	2373-8	5.5		Fluoride lift station #8 (ECOL # 2373) Pump # 2 base at cover

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 1B
Building 310 Area 6
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/4/2016	310	6	B/310 LS FL	2373-9	5.5		Fluoride lift station #8 (ECOL # 2373) Pump # 1 base at cover
1/4/2016	310	6	B/310 LS IW	2365-1	5.5		Acid lift station #14 (ECOL # 2365) tank interior bottom
1/4/2016	310	6	B/310 LS IW	2365-2	5.5		Acid lift station #14 (ECOL # 2365) tank interior sidewall
1/4/2016	310	6	B/310 LS IW	2365-3	5.5		Acid lift station #14 (ECOL # 2365) tank exterior outlet
1/4/2016	310	6	B/310 LS IW	2365-4	5.5		Acid lift station #14 (ECOL # 2365) tank cover at pump
1/4/2016	310	6	B/310 LS IW	2365-5	5.5		Acid lift station #14 (ECOL # 2365) tank cleanout at cover
1/4/2016	310	6	B/310 LS IW	2365-6	5.5		Acid lift station #14 (ECOL # 2365) vent pipe inside tank
1/4/2016	310	6	B/310 LS IW	2365-7	5.5		Acid lift station #14 (ECOL # 2365) pump intake pipe
1/4/2016	310	6	B/310 LS IW	2365-8	5.5		Acid lift station #14 (ECOL # 2365) tank exterior vent outlet

Total Number of Samples 75 Maximum pH 7.0 Minimum pH 5.0

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 2
Building 310 Area 1
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/4/2016	310	1	B/310 LS SO	Solv#2363-1	5.5		Stainless steel solvent (ECOL# 2363) tank bottom at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-2	5.5		Stainless steel solvent tank (ECOL#2363) side at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-3	5.5		Stainless steel solvent tank (ECOL#2363) top rim at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-4	7.0		Stainless steel solvent tank (ECOL#2363) drip pan at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-5	5.5		Solvent stainless steel pump outlet (ECOL#2363) at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-6	5.5		Solvent stainless steel vent pipe inlet at tank (ECOL#2363) at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-7	6.0		Solvent stainless steel tank exterior side (ECOL#2363) at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-8	6.0		Solvent stainless steel cover (ECOL#2363) at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-9	6.0		Solvent stainless steel pump pipe (ECOL#2363) at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-10	6.0		Solvent stainless steel valve at pump (ECOL#2363) at column H24
1/4/2016	310	1	B/310 LS SO	Solv#2363-11	6.0		Solvent stainless steel vent pipe inlet at tank (ECOL#2363) at column H24

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 2
Building 310 Area 1
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/4/2016	310	1	B/310 LS IW	ACID#2361-1	5.5		Acid lift station (ECOL#2361) Tank interior bottom at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-2	5.5		Acid lift station (ECOL#2361) Tank interior side at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-3	6.0		Acid lift station (ECOL#2361) Tank exterior outlet at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-4	7.0		Acid lift station (ECOL#2361) cover of pump at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-5	5.5		Acid lift station (ECOL#2361) cover of cleanout at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-6	5.5		Pump pipe inside tank of Acid lift station (ECOL#2361) at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-7	5.5		Vent pipe inside tank of Acid lift station (ECOL#2361) at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2361-8	5.5		Vent pipe exterior outlet of Acid lift station (ECOL#2361) at column H24
1/4/2016	310	1	B/310 LS IW	ACID#2362-1	5.5		Acid lift station (ECOL#2362) Tank interior bottom at column F24
1/4/2016	310	1	B/310 LS IW	ACID#2362-2	5.5		Acid lift station (ECOL#2362) Tank interior side at column F24
1/4/2016	310	1	B/310 LS IW	ACID#2362-3	5.5		Acid lift station (ECOL#2362) Tank exterior outlet at column F24

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 2
Building 310 Area 1
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	1	B/310 LS IW	ACID#10-1	5.5		Outside of 30 gal poly tank to Acid #10 lift pump at column H24.
1/4/2016	310	1	B/310 LS SO	ACID#2362-4	5.5		Acid lift station (ECOL#2362) cover of pump at column F24
1/4/2016	310	1	B/310 LS SO	ACID#2362-5	5.5		Acid lift station (ECOL#2362) cover of cleanout at column F24
1/4/2016	310	1	B/310 LS SO	ACID#2362-6	5.5		Pump pipe inside tank of Acid lift station (ECOL#2362) at column F24
1/4/2016	310	1	B/310 LS SO	ACID#2362-7	5.5		Vent pipe inside tank of Acid lift station (ECOL#2362) at column F24
1/4/2016	310	1	B/310 LS SO	ACID#2362-8	5.5		Vent pipe exterior outlet of Acid lift station (ECOL#2362) at column F24
1/20/2016	310	1	B/310 LS IW	ACID#10-1	5.5		Outside of 30 gal poly tank to Acid #10 lift pump at column H24.
1/20/2016	310	1	B/310 LS IW	ACID#10-2	6.0		Inside bottom of 30 gal poly tank to Acid #10 lift pump at column H24.
1/20/2016	310	1	B/310 LS IW	ACID#10-3	6.0		Inside sidewall of 30 gal poly tank to Acid #10 lift pump at column H24.
1/20/2016	310	1	B/310 LS IW	ACID#10-4	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #10 lift pump at column H24.
1/20/2016	310	1	B/310 LS IW	ACID#10-5	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #10 lift pump at column H24.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 2
Building 310 Area 1
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	1	B/310 LS IW	ACID#10-6	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #10 lift pump at column H24.
1/20/2016	310	1	B/310 LS IW	ACID#10-7	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #10 lift pump at column H24.
1/20/2016	310	1	B/310 LS IW	ACID#10-8	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #10 lift pump at column H24.

Total Number of Samples 36 Maximum pH 7.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 3
Building 310 Area 64
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/13/2016	310	64	B/310 LS SO	SpareLS(D22)-1	5.5		Stainless steel spare 30 gal tank bottom at column D22
1/13/2016	310	64	B/310 LS SO	SpareLS(D22)-2	5.5		Stainless steel spare 30 gal lift tank inside interior sidewall at column D22
1/13/2016	310	64	B/310 LS SO	SpareLS(D22)-3	6.0		Drip pan to stainless steel spare 30 gal lift station at column D22
1/13/2016	310	64	B/310 LS SO	SpareLS(D22)-4	5.5		PVC pump intake stainless steel spare 30 gal lift tank bottom at column D22

Total Number of Samples 4 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 4
Building 310 Area 69
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/13/2016	310	69	B/310 LS IW	ACID#57-1	6.0		Result is for 2nd sample of inside bottom of poly Acid#57 lift station tank at column C23 west. First sample had failed with pH 9.0. Inside of acid lift station tank was re-cleaned before 2nd sample.
1/13/2016	310	69	B/310 LS IW	ACID#57-2	7.5		Inside sidewall of poly Acid#57 lift station tank at column C23 west.
1/13/2016	310	69	B/310 LS IW	ACID#57-3	5.5		Inside of PVC waste inlet pipe of poly Acid#57 lift station tank at column C23 west
1/13/2016	310	69	B/310 LS IW	C24W-SLURRY-1	6.0		Primer bottom of pit for slurry lift station (No ID#) at column C24 west
1/13/2016	310	69	B/310 LS IW	C24W-SLURRY-2	6.0		Coated sidewall of pit for slurry lift station (No ID#) at column C24 west
1/13/2016	310	69	B/310 LS IW	C24W-SLURRY-3	6.5		Coated bottom of pit for slurry lift station (No ID#) at column C24 west
1/13/2016	310	69	B/310 LS IW	ACID#40-1	6.0		Coated bottom of pit for Acid#40 lift station at column D24.
1/13/2016	310	69	B/310 LS IW	ACID#40-2	6.0		Sidewall of pit for Acid#40 lift station at column D24.
1/13/2016	310	69	B/310 LS IW	ACID#40-3	6.0		Primer bottom of pit for Acid#40 lift station at column D24.
1/18/2016	310	69	B/310 LS FL	FL#13-1	6.5		Bottom of pit for Fluoride lift pump #13 at column E24.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 4
Building 310 Area 69
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/18/2016	310	69	B/310 LS FL	FL#13-2	6.5		Bottom of pit for Fluoride lift pump #13 at column E24.
1/18/2016	310	69	B/310 LS FL	FL#13-3	6.5		Sidewall of pit for Fluoride lift pump #13 at column E24.
9/6/2016	310	69	B/310 LS FL	ACID-E24-1	6.5		Bottom of pit for unlabled acid lift pump at column E24.
9/7/2016	310	69	B/310 LS FL	ACID-E24-2	6.5		Bottom of pit for unlabled acid lift pump at column E24.
9/8/2016	310	69	B/310 LS FL	ACID-E24-3	6.5		Sidewall of pit for unlabled acid lift pump at column E24.
9/9/2016	310	69	B/310 LS FL	ACID-E24-4	6.5		Sidewall of pit for unlabled acid lift pump at column E24.

Total Number of Samples 16 Maximum pH 7.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 4
Building 310 Area 69
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/13/2016	310	69	B/310 LS IW	ACID#57-1	6.0		Result is for 2nd sample of inside bottom of poly Acid#57 lift station tank at column C23 west. First sample had failed with pH 9.0. Inside of acid lift station tank was re-cleaned before 2nd sample.
1/13/2016	310	69	B/310 LS IW	ACID#57-2	7.5		Inside sidewall of poly Acid#57 lift station tank at column C23 west.
1/13/2016	310	69	B/310 LS IW	ACID#57-3	5.5		Inside of PVC waste inlet pipe of poly Acid#57 lift station tank at column C23 west
1/13/2016	310	69	B/310 LS IW	C24W-SLURRY-1	6.0		Primer bottom of pit for previouslt removed slurry lift station (No ID#) at column C24 west
1/13/2016	310	69	B/310 LS IW	C24W-SLURRY-2	6.0		Coated sidewall of pit for previously removed slurry lift station (No ID#) at column C24 west
1/13/2016	310	69	B/310 LS IW	C24W-SLURRY-3	6.5		Coated bottom of pit for previously removed slurry lift station (No ID#) at column C24 west
1/13/2016	310	69	B/310 LS IW	ACID#40-1	6.0		Coated bottom of pit for previously removed Acid#40 lift station at column D24.
1/13/2016	310	69	B/310 LS IW	ACID#40-2	6.0		Sidewall of pit for previously removed Acid#40 lift station at column D24.
1/13/2016	310	69	B/310 LS IW	ACID#40-3	6.0		Primer bottom of pit for previously removed Acid#40 lift station at column D24.
1/18/2016	310	69	B/310 LS FL	FL#13-1	6.5		Bottom of pit for previously removed Fluoride lift pump #13 at column E24.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 4
Building 310 Area 69
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/18/2016	310	69	B/310 LS FL	FL#13-2	6.5		Bottom of pit for previously removed Fluoride lift pump #13 at column E24.
1/18/2016	310	69	B/310 LS FL	FL#13-3	6.5		Sidewall of pit for previously removed Fluoride lift pump #13 at column E24.
9/6/2016	310	69	B/310 LS IW	ACID-E24-1	6.5		Bottom of pit for previously removed unlabeled acid lift pump at column E24.
9/7/2016	310	69	B/310 LS IW	ACID-E24-2	6.5		Bottom of pit for previously removed unlabeled acid lift pump at column E24.
9/8/2016	310	69	B/310 LS IW	ACID-E24-3	6.5		Sidewall of pit for previously removed unlabeled acid lift pump at column E24.
9/9/2016	310	69	B/310 LS IW	ACID-E24-4	6.5		Sidewall of pit for previously removed unlabeled acid lift pump at column E24.

Total Number of Samples 16 Maximum pH 7.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 5
Building 310 Area 70
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/13/2016	310	70	B/310 LS IW	ACID#42-1	6.0		Bottom of pit for removed Acid#42 lift station at column A24.
1/13/2016	310	70	B/310 LS IW	ACID#42-2	6.0		Pit sidewall for removed Acid#42 lift station at column A24.
1/13/2016	310	70	B/310 LS IW	ACID#42-3	6.0		Pit sidewall for removed Acid#42 lift station at column A24.
1/13/2016	310	70	B/310 LS IW	C24E-ACID-1	6.0		Bottom of pit for removed acid lift station (No ID#) at column C24 East.
1/13/2016	310	70	B/310 LS IW	C24E-ACID-2	6.0		Sidewall of pit for removed acid lift station (No ID#) at column C24 east.
1/13/2016	310	70	B/310 LS IW	C24E-ACID-3	6.5		Sidewall of pit for removed acid lift station (No ID#) at column C24 east.
1/13/2016	310	70	B/310 LS IW	ACID#45-1	5.5		Coated bottom of pit for removed Acid#45 lift station at column C25 east.
1/13/2016	310	70	B/310 LS IW	ACID#45-2	5.5		Primer bottom of pit for removed Acid#45 lift station at column C25 east.
1/13/2016	310	70	B/310 LS IW	ACID#45-3	5.5		Coated bottom of pit for removed Acid#45 lift station at column C25 east.
1/13/2016	310	70	B/310 LS IW	ACID#45-4	5.5		Coated sidewall of pit for removed Acid#45 lift station at column C25 east.
1/13/2016	310	70	B/310 LS IW	ACID#45-5	5.5		Coated sidewall of pit for removed Acid#45 lift station at column C25 east.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 5
Building 310 Area 70
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/13/2016	310	70	B/310 LS IW	ACID#45-6	6.0		Coated sidewall of pit for removed Acid#45 lift station at column C25 east.
1/18/2016	310	70	B/310 LS IW	SL#3-1	5.5		Bottom of pit for removed lift pump slurry #3 at column B25
1/18/2016	310	70	B/310 LS IW	SL#3-2	6.0		Bottom of pit for removed lift pump slurry #3 at column B25
1/18/2016	310	70	B/310 LS IW	SL#3-3	6.0		Bottom of pit for removed lift pump slurry #3 at column B25
1/18/2016	310	70	B/310 LS IW	SL#3-4	5.5		Sidewall of pit for removed lift pump slurry #3 at column B25
1/18/2016	310	70	B/310 LS IW	SL#3-5	5.5		Sidewall of pit for removed lift pump slurry #3 at column B25.
1/18/2016	310	70	B/310 LS IW	LP(B25W)-1	7.0		Bottom floor of pit for removed unknown lift pump west of column B25.
1/18/2016	310	70	B/310 LS IW	LP(B25W)-2	6.0		Sidewall of pit for removed unknown lift pump west of column B25
1/18/2016	310	70	B/310 LS IW	LP(B25E)-1	6.0		Bottom floor of pit for removed unknown lift pump east of column B25
1/18/2016	310	70	B/310 LS IW	LP(B25E)-2	5.5		Sidewall of pit for removed unknown lift pump east of column B25
1/20/2016	310	70	B/310 LS FL	FL#3135-1	5.5		Pit floor for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 5
Building 310 Area 70
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	70	B/310 LS FL	FL#3135-2	5.5		Pit floor for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
1/20/2016	310	70	B/310 LS FL	FL#3135-3	5.5		Pit sidewall for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
1/20/2016	310	70	B/310 LS FL	FL#3135-4	5.5		Pit sidewall for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-5	6.0		Inside bottom of PVC box on top of slab associated with SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-6	6.0		Inside sidewall of PVC box on top of slab associated with SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-7	6.0		Inside of lid of PVC box on top of slab associated with SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-8	6.0		Top of lid to PVC box on top of slab associated with SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-9	5.5		Screen from inside PVC box on top of slab associated with SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-10	6.0		Pit floor for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-11	5.5		Pit sidewall for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-12	5.5		Pit sidewall for removed SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 5
Building 310 Area 70
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/2/2016	310	70	B/310 LS FL	FL#3135-13	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-14	6.0		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-15	6.0		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-16	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-17	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-18	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-19	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-20	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-21	5.5		Piece of removed broken PVC SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24
6/2/2016	310	70	B/310 LS FL	FL#3135-22	6.0		Inside of stainless steel lid to SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 5
Building 310 Area 70
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/2/2016	310	70	B/310 LS FL	FL#3135-23	6.0		Outside of stainless steel lid to SWMU Tank #3135 Fluoride/Heavy Metal lift station at column B24.

Total Number of Samples 44 Maximum pH 7.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 6
Building 310 Area 24
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/14/2016	310	24	B/310 LS IW	ACID#74-1	5.5		Inside bottom of 50 gal poly tank to Acid #74 lift pump at column G6
1/14/2016	310	24	B/310 LS IW	ACID#74-2	5.5		Inside sidewall of 50 gal poly tank to Acid #74 lift pump at column G6
1/14/2016	310	24	B/310 LS IW	ACID#74-3	5.5		PVC pump mixer of 50 gal poly tank to Acid #74 lift pump at column G6
1/14/2016	310	24	B/310 LS IW	ACID#74-4	6.0		Steel drip pan 50 gal poly tank to Acid #74 lift pump at column G6
1/14/2016	310	24	B/310 LS IW	ACID#74-5	5.5		PVC pump intake of 50 gal poly tank to Acid #74 lift pump at column G6
1/14/2016	310	24	B/310 LS IW	ACIDJ6-1	7.0		Inside bottom of 10 gal poly tank to unknown # acid lift pump at column J6
1/14/2016	310	24	B/310 LS IW	ACIDJ6-2	6.5		Inside sidewall of 10 gal poly tank to unknown # acid lift pump at column J6
1/14/2016	310	24	B/310 LS IW	ACIDJ6-3	7.0		Steel drip pan 10 gal poly tank to unknown # acid lift pump at column J6
1/14/2016	310	24	B/310 LS IW	ACIDJ6-4	6.0		PVC pump intake to unknown# acid lift pump at column J6.
1/14/2016	310	24	B/310 LS IW	ACIDJ6-5	5.5		PVC pump intake to unknown# acid lift pump at column J6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-1	5.5		Bottom of trench to pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 6
Building 310 Area 24
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-2	5.5		Bottom of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-3	5.5		Bottom of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-4	5.5		Bottom of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-5	5.5		Sidewall of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-6	5.5		Sidewall of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-7	5.5		Sidewall of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.
1/20/2016	310	24	B/310 LS IW B/310 LS FL	ACID#66/FL#24-8	5.5		Sidewall of pit associated with removed Acid lift pump #66 and removed Fluoride lift pump #24 at column G6.

Total Number of Samples 18 Maximum pH 7.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 7
Building 310 Near Area 33
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/14/2016	310	Near 33	B/310 LS IW	ACID#2304-1	5.5		Inside bottom of round 2 gal black poly tank (ECOL# 2304) acid lift pump at column X10.
1/14/2016	310	Near 33	B/310 LS IW	ACID#2304-2	5.5		Inside sidewall of round 2 gal black poly tank (ECOL# 2304) acid lift pump at column X10.
1/14/2016	310	Near 33	B/310 LS IW	ACID#2304-3	5.5		PVC outlet of round 2 gal black poly tank (ECOL# 2304) acid lift pump at column X10.

Total Number of Samples 3 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 8
Building 310 Area 36
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/14/2016	310	36	B/310 LS IW	ACID#2275-1	5.5		Inside bottom of round 2 gal black poly tank (ECOL# 2275) acid lift pump at column T10.
1/14/2016	310	36	B/310 LS IW	ACID#2275-2	5.5		Inside sidewall of round 2 gal black poly tank (ECOL# 2275) acid lift pump at column T10.
1/14/2016	310	36	B/310 LS IW	ACID#2275-3	5.5		PVC outlet of round 2 gal black poly tank (ECOL# 2275) acid lift pump at column T10.

Total Number of Samples 3 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 9
Building 310 Area 30
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/14/2016	310	30	B/310 LS IW	ACID#62-1	5.5		Inside bottom of 30 gal poly tank to Acid#62 lift pump (labeled for condensate) at column G9. Tank was removed from stainless steel lined secondary containment pit.
1/14/2016	310	30	B/310 LS IW	ACID#62-2	5.5		Inside sidewall of 30 gal poly tank to Acid#62 lift pump (labeled for condensate) at column G9.
1/14/2016	310	30	B/310 LS IW	ACID#62-3	5.5		PVC intake 1 of 30 gal poly tank to Acid#62 lift pump (labeled for condensate) at column G9.
1/14/2016	310	30	B/310 LS IW	ACID#62-4	5.5		PVC intake 2 of 30 gal poly tank to Acid#62 lift pump (labeled for condensate) at column G9.
1/14/2016	310	30	B/310 LS IW	ACID#62-5	5.5		PVC tank cover to Acid#62 lift pump (labeled for condensate) at column G9.
1/14/2016	310	30	B/310 LS IW	ACID#62-6	5.5		PVC inlet pipe to Acid#62 lift pump (labeled for condensate) at column G9.
1/19/2016	310	30	B/310 LS IW	ACID#5-1	5.5		Bottom of pit to Acid #5 pump lift station at column F8.
1/19/2016	310	30	B/310 LS IW	ACID#5-2	5.5		Sidewall of pit to Acid #5 pump lift station at column F8.
1/19/2016	310	30	B/310 LS FL	FL#4-1	5.5		Bottom of pit to Fluoride #4 pump lift station at column F8.
1/19/2016	310	30	B/310 LS FL	FL#4-2	5.5		Sidewall of pit to Fluoride #4 pump lift station at column F8.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 9
Building 310 Area 30
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/19/2016	310	30	B/310 LS SO	SO#6-1	6.0		Bottom of pit to Solvent #6 pump lift station at column F8.
1/19/2016	310	30	B/310 LS SO	SO#6-2	6.0		Sidewall of pit to Solvent #6 pump lift station at column F8.
1/19/2016	310	30	B/310 LS FL	FL#15-1	6.0		Bottom of pit to Fluoride #15 pump lift station at column G9.
1/19/2016	310	30	B/310 LS FL	FL#15-2	6.0		Bottom of pit to Fluoride #15 pump lift station at column G9.
1/19/2016	310	30	B/310 LS IW	ACID#62-7	5.5		Bottom of pit to Acid #62 pump lift station at column G9.
1/19/2016	310	30	B/310 LS IW	ACID#62-8	5.5		Sidewall of pit to Acid #62 pump lift station at column G9.
1/19/2016	310	30	B/310 LS SO	SO#9-1	5.5		Bottom of pit to Solvent #9 pump lift station at column G9.
1/19/2016	310	30	B/310 LS SO	SO#9-2	5.5		Sidewall of pit to Solvent #9 pump lift station at column G9.
1/20/2016	310	30	B/310 LS IW	ACID#2261-1	6.5		Outside of pump tank to acid lift pump (ECOL# 2261) at column D9.
1/20/2016	310	30	B/310 LS IW	ACID#2261-2	7.5		Inside bottom of tank to acid lift pump (ECOL# 2261) at column D9.
1/20/2016	310	30	B/310 LS IW	ACID#2261-3	5.5		Inside of pipe coming out of tank to acid lift pump (ECOL# 2261) at column D9.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 9
Building 310 Area 30
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	30	B/310 LS IW	ACID#2261-4	5.5		Inside of pipe coming out of tank to acid lift pump (ECOL# 2261) at column D9.
1/20/2016	310	30	B/310 LS IW	ACID#2261-5	5.5		Inside of pipe coming out of tank to acid lift pump (ECOL# 2261) at column D9.
1/20/2016	310	30	B/310 LS IW	ACID#9-1	6.0		Bottom of pit for Acid #9 lift station at column M7.
1/20/2016	310	30	B/310 LS IW	ACID#9-2	6.0		Bottom of pit for Acid #9 lift station at column M7.
1/20/2016	310	30	B/310 LS IW	ACID#9-3	5.5		Sidewall of pit for Acid #9 lift station at column M7.
1/20/2016	310	30	B/310 LS SO	SO(M7)-1	5.5		Bottom of pit for solvent lift station at column M7.
1/20/2016	310	30	B/310 LS SO	SO(M7)-2	5.5		Sidewall of pit for solvent lift station at column M7.

Total Number of Samples 28 Maximum pH 7.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 10
Building 310 Area 37
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/4/2016	310	37	B/310 LS IW	ACID#96-1	6.0		Inside bottom of 30 gal poly tank to Acid #96 lift pump at column R9
1/4/2016	310	37	B/310 LS IW	ACID#96-2	6.0		Inside sidewall of 30 gal poly tank to Acid #96 lift pump at column R9
1/4/2016	310	37	B/310 LS IW	ACID#96-3	7.5		Pump outlet of 30 gal poly tank to Acid #96 lift pump at column R9
1/4/2016	310	37	B/310 LS IW	ACID#96-4	7.5		Pump inlet piping of 30 gal poly tank to Acid #96 lift pump at column R9
1/4/2016	310	37	B/310 LS IW	ACID#96-5	5.5		Poly drip pan for 30 gal poly tank to Acid #96 lift pump at column R9
2/22/2016	310	37	B/310 LS IW	ACID#95-1	7.0		Inside bottom of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-2	7.0		Inside bottom of catch pan to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-3	7.0		Top of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-4	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-5	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-6	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 10
Building 310 Area 37
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	37	B/310 LS IW	ACID#95-7	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-8	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-9	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-10	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-11	6.0		Inside drain pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-12	5.5		Inside vent pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-13	5.5		Inside vent pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-14	5.5		Inside vent pipe coming off of lift tank to Acid #95 lift pump at column R9.
2/22/2016	310	37	B/310 LS IW	ACID#95-15	5.5		Inside vent pipe coming off of lift tank to Acid #95 lift pump at column R9.

Total Number of Samples 20 Maximum pH 7.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 11
Building 310 Area 60
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	60	B/310 LS IW	ACID#50-1	5.5		Outside of 30 gal poly tank to Acid #50 lift pump at column E20.
1/20/2016	310	60	B/310 LS IW	ACID#50-2	5.5		Inside bottom of 30 gal poly tank to Acid #50 lift pump at column E20.
1/20/2016	310	60	B/310 LS IW	ACID#50-3	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #50 lift pump at column E20.
1/20/2016	310	60	B/310 LS IW	ACID#50-4	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #50 lift pump at column E20.
1/20/2016	310	60	B/310 LS IW	ACID#50-5	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #50 lift pump at column E20.
1/20/2016	310	60	B/310 LS IW	ACID#50-6	5.5		Inside of pipe coming out of 30 gal poly tank to Acid #50 lift pump at column E20.
1/20/2016	310	60	B/310 LS IW B/310 LS FL	ACID#50/FL#14-1	5.5		Bottom of pit associated with Acid lift pump #50 and Fluoride lift pump #14 at column E20.
1/20/2016	310	60	B/310 LS IW B/310 LS FL	ACID#50/FL#14-2	5.5		Bottom of pit associated with Acid lift pump #50 and Fluoride lift pump #14 at column E20.
1/20/2016	310	60	B/310 LS IW B/310 LS FL	ACID#50/FL#14-3	5.5		Bottom of pit associated with Acid lift pump #50 and Fluoride lift pump #14 at column E20.
1/20/2016	310	60	B/310 LS IW B/310 LS FL	ACID#50/FL#14-4	5.5		Bottom of pit associated with Acid lift pump #50 and Fluoride lift pump #14 at column E20.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 11
Building 310 Area 60
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/19/2016	310	60	B/310 LS IW	ACID#49-1	5.5		Inside bottom of 30 gal poly tank to Acid #50 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-2	5.5		Inside sidewall of 30 gal poly tank to Acid #49 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-3	5.5		Pipe coming out of 30 gal poly tank to Acid #49 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-4	6.0		Pipe coming out of 30 gal poly tank to Acid #49 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-5	6.0		Pipe coming out of 30 gal poly tank to Acid #49 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-6	5.5		Pipe attached to pump to Acid #49 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-7	5.5		Pipe coming out of poly tank lid to Acid #49 lift pump at column D19.
7/19/2016	310	60	B/310 LS IW	ACID#49-8	5.5		Top of lid to30 gal poly tank lid to Acid #49 lift pump at column D19.
7/28/2016	310	60	B/310 LS IW	ACID#71-1	6.0		Inside of discharge pipe coming out of tank to Acid #71 lift pump at column E19.
7/28/2016	310	60	B/310 LS IW	ACID#71-2	6.0		Inside of discharge pipe coming out of tank to Acid #71 lift pump at column E19.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 11
Building 310 Area 60
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	60	B/310 LS IW	ACID#71-3	5.5		Inside of intake pipe coming out of tank to Acid #71 lift pump at column E19.
7/28/2016	310	60	B/310 LS IW	ACID#71-4	6.0		Inside of drain coming out of tank to Acid #71 lift pump at column E19.

Total Number of Samples 22 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 12
Building 310 Area 61
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/18/2016	310	61	B/310 LS IW B/310 LS FL	ACID#32/FL(B19)-1	6.0		Bottom of pit of Fluoride lift pump/Acid #32 lift pump at column B19.
1/18/2016	310	61	B/310 LS IW B/310 LS FL	ACID#32/FL(B19)-2	6.0		Bottom of pit of Fluoride lift pump/Acid #32 lift pump at column B19.
1/18/2016	310	61	B/310 LS IW B/310 LS FL	ACID#32/FL(B19)-3	6.0		Bottom of pit of Fluoride lift pump/Acid #32 lift pump at column B19.
1/18/2016	310	61	B/310 LS IW B/310 LS FL	ACID#32/FL(B19)-4	6.0		Bottom of pit of Fluoride lift pump/Acid #32 lift pump at column B19.
1/18/2016	310	61	B/310 LS IW B/310 LS FL	ACID#32/FL(B19)-5	6.5		Sidewall of pit of Fluoride lift pump/Acid #32 lift pump at column B19.
1/18/2016	310	61	B/310 LS IW B/310 LS FL	ACID#32/FL(B19)-6	6.0		Sidewall of pit of Fluoride lift pump/Acid #32 lift pump at column B19.
2/22/2016	310	61	B/310 LS IW	ACID#91-1	5.5		Inside bottom of lift tank to Acid #91 lift pump at column B20
2/22/2016	310	61	B/310 LS IW	ACID#91-2	5.5		Inside bottom of catch pan to Acid #91 lift pump at column B20.
2/22/2016	310	61	B/310 LS IW	ACID#91-3	5.5		Top of lift tank to Acid #91 lift pump at column B20.
2/22/2016	310	61	B/310 LS IW	ACID#91-4	5.5		Inside drain pipe coming off of lift tank to Acid #91 lift pump at column B20
2/22/2016	310	61	B/310 LS IW	ACID#91-5	5.5		Inside drain pipe coming off of lift tank to Acid #91 lift pump at column B20

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 12
Building 310 Area 61
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	61	B/310 LS IW	ACID#91-6	5.5		Inside drain pipe coming off of lift tank to Acid #91 lift pump at column B20
2/22/2016	310	61	B/310 LS IW	ACID#91-7	5.5		Inside drain pipe coming off of lift tank to Acid #91 lift pump at column B20
2/22/2016	310	61	B/310 LS IW	ACID#91-8	5.5		Inside drain pipe coming off of lift tank to Acid #91 lift pump at column B20

Total Number of Samples 14 Maximum pH 6.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	13	B/310 LS FL	FL#28-1	5.5		Outside of Fluoride lift pump #28 (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-2	5.5		Inside pipe coming out of Fluoride lift pump #28 (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-3	5.5		Inside pipe coming out of Fluoride lift pump #28 (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-4	5.5		Inside pipe coming out of Fluoride lift pump #28 (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-5	5.5		Inside pipe coming out of Fluoride lift pump #28 (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-6	5.5		Inside pipe coming out of Fluoride lift pump #28 (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-7	5.5		Inside bottom of Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-8	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-9	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-10	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-11	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	13	B/310 LS FL	FL#28-12	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-13	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-14	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-15	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-16	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-17	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-18	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-19	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-20	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-21	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-22	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	13	B/310 LS FL	FL#28-23	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-24	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-25	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-26	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-27	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-28	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-29	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-30	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-31	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-32	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-33	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	13	B/310 LS FL	FL#28-34	5.5		Inside 2" PVC pipe from trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-35	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-36	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-37	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-38	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-39	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-40	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-41	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-42	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-43	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-44	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	13	B/310 LS FL	FL#28-45	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-46	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/20/2016	310	13	B/310 LS FL	FL#28-47	5.5		Inside decontaminated trench that went to Fluoride lift pump #28 tank (ECOL#2278) at column B2.
1/21/2016	310	13	B/310 LS SO	SO#11-1	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-2	5.5		Inside steel solvent pipe removed from trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-3	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-4	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-5	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-6	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-7	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-8	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/21/2016	310	13	B/310 LS SO	SO#11-9	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-10	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-11	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-12	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-13	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-14	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-15	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-16	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-17	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-18	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-19	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/21/2016	310	13	B/310 LS SO	SO#11-20	5.5		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-21	6.0		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-22	6.0		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-23	6.0		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-24	6.0		Inside bottom of trench that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-25	5.5		Bottom of pit that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#11-26	5.5		Bottom of pit that went to solvent sump #11 at column A2.5.
1/21/2016	310	13	B/310 LS SO	SO#13-1	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-2	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-3	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-4	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/21/2016	310	13	B/310 LS SO	SO#13-5	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-6	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-7	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-8	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-9	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-10	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-11	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-12	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-13	5.5		Inside steel drain pipe removed from trench that went from sink to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-14	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-15	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 13
Building 310 Area 13
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/21/2016	310	13	B/310 LS SO	SO#13-16	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-17	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-18	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-19	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-20	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-21	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-22	5.5		Inside bottom of trench that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-23	5.5		Bottom of pit that went to solvent sump #13 at column A1.
1/21/2016	310	13	B/310 LS SO	SO#13-24	5.5		Bottom of pit that went to solvent sump #13 at column A1.

Total Number of Samples 97 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 14
Building 310 Area 4
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-1	5.5		Bottom of trench that goes to pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-2	5.5		Bottom of pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-3	5.5		Bottom of pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-4	5.5		Bottom of pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-5	5.5		Sidewall of trench that goes to pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-6	5.5		Sidewall of trench that goes to pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-7	5.5		Sidewall of trench that goes to pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4	B/310 LS IW B/310 LS FL	ACID#64/FL#22-8	5.5		Sidewall of trench that goes to pit associated with Acid lift pump #64 and Fluoride lift pump #22 at column G4.5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-1	5.5		Bottom of trench that goes to pit associated with Acid lift pump #65 and Fluoride lift pump #23 at column G5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-2	5.5		Bottom of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-3	5.5		Bottom of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 14
Building 310 Area 4
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-4	5.5		Bottom of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-5	5.5		Sidewall of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-6	5.5		Sidewall of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-7	5.5		Sidewall of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.
1/20/2016	310	4/24	B/310 LS IW B/310 LS FL	ACID#65/FL23#23-8	5.5		Sidewall of pit associated with Acid lift pump #64 and Fluoride lift pump #23 at column G5.

Total Number of Samples 16 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 15
Building 310 Area 29
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
1/21/2016	310	29	B/310 LS IW	ACID#16-1	5.5		Bottom of pit to Acid #16 lift pump near column U7.
1/21/2016	310	29	B/310 LS IW	ACID#16-2	5.5		Bottom of pit to Acid #16 lift pump near column U7.

Total Number of Samples 2 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-443	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-444	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-445	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-446	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-447	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-448	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-449	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-450	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-451	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	39	B310-FL (2)	B310-FL (2)-452	5.5		PVC fluoride pipe from conference room in Area 39 after being flushed by Stryker.
6/29/2016	310	56/57	B310-FL (2)	B310-FL(2)-454	5.5		PVC fluoride drain pipe from Area 56/57 after being flushed by Stryker.
6/29/2016	310	56/57	B310-FL (2)	B310-FL(2)-455	5.5		PVC fluoride drain pipe from Area 56/57 after being flushed by Stryker.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/29/2016	310	56/57	B310-FL (2)	B310-FL(2)-456	5.5		PVC fluoride drain pipe from Area 56/57 after being flushed by Stryker.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-452	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-453	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-454	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-455	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-456	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-457	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-458	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-459	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-460	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-461	6.5		PVC fluoride pipe from B310 cleaned by Techtron.
7/28/2016	310	310	B310-FL (2)	B310-FL (2)-462	6.5		PVC fluoride pipe from B310 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-463	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-464	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-465	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-466	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-467	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-468	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-469	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-470	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-471	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-472	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
7/28/2016	310	68	B310-FL (2)	B310-FL (2)-473	6.0		PVC fluoride pipe from Area 68 cleaned by Techtron.
8/9/2016	310	MER	B310-FL (2)	B310-FL (2)-474	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-475	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-476	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-477	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-478	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-479	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-480	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-481	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-482	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-483	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-484	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-485	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-486	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-487	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-488	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-489	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-490	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-491	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-492	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-493	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-494	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	MER	B310-FL (2)	B310-FL (2)-495	5.5		Gray inner PVC fluoride pipe from MER cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-496	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-497	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-498	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-499	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-500	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-501	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-502	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-503	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-504	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-505	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-506	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-507	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-508	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-509	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-510	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-511	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-512	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-513	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-514	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-515	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-516	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-517	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-518	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-519	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-520	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-521	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-522	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-523	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-524	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-525	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-526	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-527	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-528	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-529	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-530	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-531	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-532	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-533	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-534	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/10/2016	310	70	B310-FL (2)	B310-FL (2)-535	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-536	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-537	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-538	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-539	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-540	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-541	5.5		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-542	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-543	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-544	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-545	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-546	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-547	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-548	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-549	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-550	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-551	6.0		Black 5 1/2 inch ID PVC secondary fluoride pipe from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-552	6.0		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-553	6.0		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-554	5.5		Black 2 3/4 inch ID PVC fluoride wasteline from Area 70 cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-555	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
8/11/2016	310	70	B310-FL (2)	B310-FL (2)-556	5.5		8" green secondary fluoride steel pipe from MER cleaned by Techtron.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-1	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-2	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-3	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-4	5.5		Fluoride pipe above the ceiling in Area 79 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-5	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-6	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-7	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-8	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-9	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/9/2016	310	13	B310-FL(2)	B310-FL(2)-10	5.5		Fluoride pipe above the ceiling in Area 13 between columns A1 and C3.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-11	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-12	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-13	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-14	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-15	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-16	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-17	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-18	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-19	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-20	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-21	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	79	B310-FL(2)	B310-FL(2)-22	5.5		Fluoride pipe above the ceiling in Area 79 between columns C3 and C5.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-23	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-24	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-25	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-26	5.0		Fluoride drop pipe in Area 4

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-27	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-28	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-29	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-30	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-31	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-32	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-33	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-34	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-35	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-36	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-37	5.0		Fluoride drop pipe in Area 4
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-38	5.0		Fluoride drop pipe in Area 4

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-39	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-40	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-41	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-42	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-43	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-44	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-45	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-46	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-47	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-48	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-49	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-50	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-51	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-52	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-53	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-54	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-55	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-56	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-57	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-58	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-59	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-60	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-61	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.
2/10/2016	310	4	B310-FL(2)	B310-FL(2)-62	5.5		Fluoride pipe above the ceiling in Area 4 between columns C4 to G4 and G4 to F7.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-63	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-64	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-65	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-66	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-67	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-68	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-69	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-70	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-71	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-72	5.0		Fluoride pipe above the ceiling in Area 4.
2/11/2016	310	4	B310-FL(2)	B310-FL(2)-73	5.0		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-74	5.5		Fluoride pipe above the ceiling in Area 4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-75	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-76	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-77	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-78	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-79	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-80	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-81	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-82	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-83	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-84	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-85	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-86	5.5		Fluoride pipe above the ceiling in Area 4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-87	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-88	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-89	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-90	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-91	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-92	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-93	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-94	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-95	5.5		Fluoride pipe above the ceiling in Area 4.
2/15/2016	310	4	B310-FL(2)	B310-FL(2)-96	5.5		Fluoride pipe above the ceiling in Area 4.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-97	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-98	5.5		Fluoride pipe above the ceiling in Area 30.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-99	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-100	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-101	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-102	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-103	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-104	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-105	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-106	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-107	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-108	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	30	B310-FL(2)	B310-FL(2)-109	5.5		Fluoride pipe above the ceiling in Area 30.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-110	5.5		Fluoride pipe above the ceiling in Area 1.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-111	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-112	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-113	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-114	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-115	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-116	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-117	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-118	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-119	5.5		Fluoride pipe above the ceiling in Area 1.
2/17/2016	310	1	B310-FL(2)	B310-FL(2)-120	5.5		Fluoride pipe above the ceiling in Area 1.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-121	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-122	5.5		Fluoride pipe above the ceiling in Area 23.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-123	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-124	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-125	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-126	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-127	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-128	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-129	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-130	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-131	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	23	B310-FL(2)	B310-FL(2)-132	5.5		Fluoride pipe above the ceiling in Area 23.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-133	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-134	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-135	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-136	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-137	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-138	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-139	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-140	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	Hallway	B310-FL(2)	B310-FL(2)-141	5.5		Fluoride pipe above the ceiling in Hallway between columns C21 and B21.
2/18/2016	310	62	B310-FL(2)	B310-FL(2)-142	5.5		Fluoride pipe above the ceiling in Area 62.
2/18/2016	310	62	B310-FL(2)	B310-FL(2)-143	5.5		Fluoride pipe above the ceiling in Area 62.
2/18/2016	310	62	B310-FL(2)	B310-FL(2)-144	5.5		Fluoride pipe above the ceiling in Area 62.
2/18/2016	310	62	B310-FL(2)	B310-FL(2)-145	5.5		Fluoride pipe above the ceiling in Area 62.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-146	5.5		Fluoride pipe above the ceiling in Area 61.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-147	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-148	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-149	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-150	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-151	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-152	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	61	B310-FL(2)	B310-FL(2)-153	5.5		Fluoride pipe above the ceiling in Area 61.
2/18/2016	310	22	B310-FL(2)	B310-FL(2)-154	5.5		Fluoride pipe above the ceiling in Area 22.
2/18/2016	310	22	B310-FL(2)	B310-FL(2)-155	5.5		Fluoride pipe above the ceiling in Area 22.
2/18/2016	310	22	B310-FL(2)	B310-FL(2)-156	5.5		Fluoride pipe above the ceiling in Area 22.
2/18/2016	310	22	B310-FL(2)	B310-FL(2)-157	5.5		Fluoride pipe above the ceiling in Area 22.
2/18/2016	310	22	B310-FL(2)	B310-FL(2)-158	5.5		Fluoride pipe above the ceiling in Area 22.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/18/2016	310	22	B310-FL(2)	B310-FL(2)-159	5.5		Fluoride pipe above the ceiling in Area 22.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-160	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-161	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-162	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-163	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-164	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-165	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	5	B310-FL(2)	B310-FL(2)-166	5.5		Fluoride pipe above the ceiling in Area 5.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-167	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-168	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-169	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-170	5.5		Fluoride pipe above the ceiling in Area 6.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-171	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-172	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-173	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-174	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-175	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-176	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-177	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-178	5.5		Fluoride pipe above the ceiling in Area 6.
2/18/2016	310	6	B310-FL(2)	B310-FL(2)-179	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-180	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-181	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-182	5.5		Fluoride pipe above the ceiling in Area 6.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-183	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-184	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-185	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-186	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-187	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-188	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-189	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-190	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-191	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-192	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-193	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-194	5.5		Fluoride pipe above the ceiling in Area 6.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-195	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-196	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-197	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-198	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-199	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-200	5.5		Fluoride pipe above the ceiling in Area 6.
2/22/2016	310	6	B310-FL(2)	B310-FL(2)-201	6.0		Fluoride pipe above the ceiling in Area 6.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-202	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-203	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-204	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-205	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-206	6.0		Fluoride pipe above the ceiling in Area 70.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-207	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-208	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-209	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-210	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-211	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-212	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-213	6.0		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-214	7.0		Fluoride drop pipe in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-215	7.0		Fluoride drop pipe in Area 70.
2/23/2016	310	70	B310-FL(2)	B310-FL(2)-216	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-217	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-218	5.5		Fluoride pipe above the ceiling in Area 70.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-219	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-220	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-221	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-222	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-223	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-224	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-225	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-226	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-227	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	60	B310-FL(2)	B310-FL(2)-228	5.5		Fluoride pipe above the ceiling in Area 70.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-229	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-230	5.5		Fluoride pipe above the ceiling in Area 52.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-231	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-232	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-233	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-234	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-235	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-236	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-237	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-238	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-239	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-240	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-241	5.5		Fluoride pipe above the ceiling in Area 52.
2/23/2016	310	52	B310-FL(2)	B310-FL(2)-242	5.5		Fluoride pipe above the ceiling in Area 52.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-243	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-244	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-245	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-246	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-247	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-248	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	52	B310-FL(2)	B310-FL(2)-249	6.0		Fluoride pipe above the ceiling in Area 52.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-250	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-251	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-252	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-253	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-254	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-255	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-256	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-257	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-258	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-259	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-260	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-261	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-262	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-263	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-264	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-265	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-266	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-267	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-268	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/24/2016	310	16/15	B310-FL(2)	B310-FL(2)-269	5.5		Fluoride pipe above the ceiling in Area 15 and 16 between columns V8 and V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-270	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-271	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-272	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-273	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-274	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-275	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-276	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-277	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-278	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-279	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-280	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-281	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-282	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	16	B310-FL(2)	B310-FL(2)-283	5.5		Fluoride Pipe above the ceiling in Area 16 between columns V5 to V4.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-284	5.5		Fluoride Pipe above the ceiling in Area 30.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-285	5.5		Fluoride Pipe above the ceiling in Area 30.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-286	5.5		Fluoride Pipe above the ceiling in Area 30.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-287	5.5		Fluoride Pipe above the ceiling in Area 30.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-288	5.5		Fluoride Pipe above the ceiling in Area 30.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-289	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-290	5.5		Fluoride Pipe above the ceiling in Area 52.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-291	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-292	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-293	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-294	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-295	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-296	5.5		Fluoride Pipe above the ceiling in Area 52.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-297	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R4 to R5.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-298	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R4 to R5.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-299	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R4 to R5.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-300	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R4 to R5.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-301	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R4 to R5.
2/25/2016	310	30	B310-FL(2)	B310-FL(2)-302	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R4 to R5.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-303	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J24 to J23.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-304	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J24 to J23.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-305	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J24 to J23.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-306	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J24 to J23.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-307	5.5		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J24 to J23.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-308	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J23 to J22.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-309	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J23 to J22.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-310	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J23 to J22.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-311	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J23 to J22.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-312	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J23 to J22.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-313	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J22 to J21.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-314	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J22 to J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-315	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J22 to J21.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-316	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-317	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-318	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-319	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-320	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-321	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-322	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J21 to J19.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-323	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J19 to J18.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-324	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J19 to J18.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-325	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J19 to J18.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-326	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-327	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-328	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-329	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-330	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-331	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-332	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-333	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	Hallway	B310-FL(2)	B310-FL(2)-334	5.0		Fluoride Pipe above the ceiling in Aisle J Hallway between columns J18 to J15.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-335	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-336	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-337	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-338	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-339	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-340	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-341	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-342	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-343	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-344	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-345	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-346	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
2/29/2016	310	19	B310-FL(2)	B310-FL(2)-347	5.5		Fluoride Pipe above the ceiling in Area 19 between columns R5 to R7.
3/1/2016	310	MER	B310-FL(2)	B310-FL(2)-348	5.5		Fluoride Pipe above the ceiling in MER Area between columns R7 to R8.
3/1/2016	310	MER	B310-FL(2)	B310-FL(2)-349	5.5		Fluoride Pipe above the ceiling in MER Area between columns R7 to R8.
3/1/2016	310	MER	B310-FL(2)	B310-FL(2)-350	5.5		Fluoride Pipe above the ceiling in MER Area between columns R7 to R8.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/1/2016	310	MER	B310-FL(2)	B310-FL(2)-351	5.5		Fluoride Pipe above the ceiling in MER Area between columns R7 to R8.
3/1/2016	310	MER	B310-FL(2)	B310-FL(2)-352	5.5		Fluoride Pipe above the ceiling in MER Area between columns R7 to R8.
3/1/2016	310	MER	B310-FL(2)	B310-FL(2)-353	5.5		Fluoride Pipe above the ceiling in MER Area between columns R7 to R8.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-354	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-355	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-356	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-357	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-358	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-359	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-360	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-361	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-362	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-363	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-364	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-365	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-366	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-367	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/2/2016	310	37	B310-FL(2)	B310-FL(2)-368	5.5		Fluoride Pipe above the ceiling in Area 37 between columns R9 to R11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-369	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-370	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-371	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-372	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-373	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-374	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-375	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-376	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-377	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-378	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/3/2016	310	78	B310-FL(2)	B310-FL(2)-379	5.5		Fluoride Pipe above the ceiling in Area 78 between columns F11 to H11.
3/7/2016	310	78	B310-FL(2)	B310-FL(2)-380	5.5		Fluoride Pipe above the ceiling in Area 78 between columns G12 to K12.
3/7/2016	310	78	B310-FL(2)	B310-FL(2)-381	5.5		Fluoride Pipe above the ceiling in Area 78 between columns G12 to K12.
3/7/2016	310	78	B310-FL(2)	B310-FL(2)-382	5.5		Fluoride Pipe above the ceiling in Area 78 between columns G12 to K12.
3/7/2016	310	78	B310-FL(2)	B310-FL(2)-383	5.5		Fluoride Pipe above the ceiling in Area 78 between columns G12 to K12.
3/7/2016	310	78	B310-FL(2)	B310-FL(2)-384	5.5		Fluoride Pipe above the ceiling in Area 78 between columns G12 to K12.
3/7/2016	310	78	B310-FL(2)	B310-FL(2)-385	5.5		Fluoride Pipe above the ceiling in Area 78 between columns G12 to K12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-386	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-387	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-388	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-389	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-390	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-391	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-392	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-393	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-394	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-395	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-396	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/8/2016	310	44&45	B310-FL(2)	B310-FL(2)-397	5.5		Fluoride Pipe above the ceiling in Areas 44 & 45 between columns K12 to M12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-398	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-399	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-400	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-401	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-402	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-403	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-404	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-405	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-406	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-407	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-408	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-409	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-410	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	offices	B310-FL(2)	B310-FL(2)-411	5.5		Fluoride Pipe above the ceiling of offices between columns M12 to T12.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-412	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-413	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-414	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-415	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-416	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-417	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-418	5.0		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-419	5.5		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-420	5.5		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-421	5.5		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.
3/15/2016	310	Hallway 49 53	B310-FL(2)	B310-FL(2)-422	5.5		Fluoride Pipe above the ceiling from Area 49, 53 and Aisle 12 Hallway between columns F12 to E12 to E16.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-422	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-423	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-424	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-425	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-426	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-427	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-428	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-429	5.5		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-430	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-431	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-432	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-433	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-434	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-435	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-436	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-437	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-438	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-439	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-440	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-441	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
4/19/2016	310	6 ISC Lab	B310-FL(2)	B310-FL(2)-442	6.0		Fluoride Pipe above the ceiling from Area 6 ISC Mercury Lab.
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-1	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-2	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-3	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-4	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-5	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-6	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/15/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-7	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-8	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-9	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-10	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-11	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-12	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-13	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-14	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-15	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-16	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-17	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-18	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-19	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-20	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-21	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-22	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-23	6.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-24	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-25	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-26	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-27	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-28	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-29	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-30	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-31	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-32	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-33	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-34	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-35	6.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-36	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-37	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-38	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-39	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/15/2016	310	52	B310-IW (2)	B310-IW (2)-40	7.0		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-41	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-42	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-43	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-44	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-45	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-46	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-47	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-48	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-49	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-50	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-51	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-52	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-53	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-54	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-55	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-56	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-57	5.5		Acid Pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-58	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-59	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-60	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-61	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-62	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-63	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-64	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-65	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-66	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-67	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-68	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	52	B310-IW (2)	B310-IW (2)-69	7.0		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 52 between columns G16 to D16.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-70	6.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-71	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-72	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-73	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-74	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-75	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-76	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-77	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-78	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-79	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-80	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-81	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-82	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-83	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-84	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-85	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-86	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-87	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-88	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-89	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-90	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-91	5.5		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-92	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-93	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-94	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-95	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-96	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-97	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-98	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-99	5.0		Acid Pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-100	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-101	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-102	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-103	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-104	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-105	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-106	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/16/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-107	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-108	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-109	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-110	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-111	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-112	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-113	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-114	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-115	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	30 4 24	B310-IW (2)	B310-IW (2)-116	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 30, 4 and 24 between columns F4 to F11.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-117	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-118	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-119	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-120	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-121	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-122	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-123	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-124	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-125	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-126	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-127	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-128	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-129	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-130	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-131	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-132	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-133	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-134	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-135	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-136	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-137	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-138	5.5		Acid Pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-139	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-140	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-141	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-142	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-143	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-144	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-145	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-146	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-147	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-148	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-149	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-150	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-151	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-152	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.
3/17/2016	310	2 37	B310-IW (2)	B310-IW (2)-153	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 2 and 37 between columns R11 to R9 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-154	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-155	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-156	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-157	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-158	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-159	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-160	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-161	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-162	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-163	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-164	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-165	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-166	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-167	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-168	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-169	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-170	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-171	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-172	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-173	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-174	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-175	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-176	5.5		Acid Pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-177	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-178	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-179	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-180	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-181	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-182	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-183	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-184	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-185	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-186	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-187	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-188	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-189	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-190	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-191	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-192	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-193	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-194	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-195	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/21/2016	310	18 MER	B310-IW (2)	B310-IW (2)-196	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 18 and MER between columns R9 to R7 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-197	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-198	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-199	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-200	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-201	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-202	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-203	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-204	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-205	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-206	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-207	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-208	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-209	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-210	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-211	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-212	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-213	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-214	5.5		Acid Pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-215	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-216	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-217	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-218	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-219	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-220	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-221	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-222	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-223	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-224	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-225	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-226	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-227	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-228	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-229	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-230	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-231	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-232	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-233	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-234	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-235	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-236	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-237	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-238	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
3/23/2016	310	19	B310-IW (2)	B310-IW (2)-239	5.5		Secondary containment tray that was under acid and fluoride pipe above the ceiling from Area 19 between columns R7 to R4 on the R4 to R11 line.
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-240	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-241	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-242	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-243	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-244	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-245	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-246	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-247	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-248	5.5		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-249	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-250	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-251	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-252	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-253	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-254	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-255	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-256	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-257	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-258	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-259	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-260	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-261	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
4/19/2016	310	6 ISC Lab	B310-IW (2)	B310-IW (2)-262	6.0		Acid Pipe above the ceiling from Area 6 ISC Mercury Lab
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-263	5.0		Acid drain drop pipe from Area 4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-264	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-265	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-266	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-267	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-268	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-269	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-270	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-271	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-272	5.0		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-273	5.5		Acid drain drop pipe from Area 4.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-274	5.5		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-275	5.5		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-276	5.5		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-277	5.5		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-278	5.5		Acid drain drop pipe from Area 4.
5/4/2016	310	4	B310-IW (2)	B310-IW (2)-279	5.5		Acid drain drop pipe from Area 4.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-280	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-281	6.0		PVC acid drain pipe from MER.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-282	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-283	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-284	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-285	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-286	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-287	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-288	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-289	6.0		PVC acid drain pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-290	6.0		PVC acid vent pipe from MER.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-291	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-292	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-293	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-294	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-295	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-296	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-297	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-298	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-299	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-300	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-301	6.0		PVC acid vent pipe from MER.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-302	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-303	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-304	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-305	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-306	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-307	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-308	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-309	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-310	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-311	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-312	6.0		PVC acid vent pipe from MER.
6/13/2016	310	MER	B310-IW (2)	B310-IW (2)-313	6.0		PVC acid vent pipe from MER.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-314	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-315	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-316	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-317	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-318	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-319	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-320	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-321	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-322	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-323	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-324	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-325	6.0		PVC acid drain pipe from Area 9.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-326	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-327	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-328	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-329	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-330	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-331	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-332	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-333	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-334	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-335	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-336	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-337	6.0		PVC acid drain pipe from Area 9.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-338	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-339	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-340	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-341	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-342	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-343	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-344	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-345	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-346	6.0		PVC acid drain pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-347	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-348	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-349	6.0		PVC acid vent pipe from Area 9.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-350	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-351	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-352	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-353	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-354	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-355	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-356	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-357	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-358	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-359	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-360	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-361	6.0		PVC acid vent pipe from Area 9.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-362	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-363	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-364	6.0		PVC acid vent pipe from Area 9.
6/13/2016	310	9	B310-IW (2)	B310-IW (2)-365	6.0		PVC acid vent pipe from Area 9.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-366	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-367	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-368	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-369	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-370	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-371	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-372	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-373	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-374	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-375	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-376	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-377	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-378	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-379	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-380	5.5		3 inch PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-381	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-382	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-383	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-384	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-385	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-386	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-387	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-388	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-389	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-390	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-391	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-392	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 64.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-393	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 64.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-394	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-395	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-396	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-397	5.5		3 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-398	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-399	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-400	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-401	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-402	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-403	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-404	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-405	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-406	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-407	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-408	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-409	5.5		3 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-410	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-411	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-412	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-413	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-414	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-415	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-416	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-417	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-418	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-419	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-420	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-421	5.5		1 1/2 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-422	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-423	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-424	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-425	5.5		Acid drain drop pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-426	5.5		Acid drain drop pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-427	5.5		Acid drain drop pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-428	5.5		Acid drain drop pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-429	5.5		Acid drain drop pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-430	5.5		Acid drain drop pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-431	5.5		Acid vent pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-432	5.5		Acid vent pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-433	5.5		Acid vent pipe from Area 60.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-434	5.5		Acid vent pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-435	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-436	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-437	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-438	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-439	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-440	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-441	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-442	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-443	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-444	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-445	5.5		PVC acid pipe from Area 60.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-446	5.5		PVC acid pipe from Area 60.
7/20/2016	310	60	B310-IW (2)	B310-IW (2)-447	5.5		PVC acid pipe from Area 60.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-448	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-449	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-450	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-451	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-452	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-453	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-454	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-455	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-456	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-457	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-458	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-459	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-460	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-461	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-462	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-463	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-464	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-465	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-466	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-467	5.5		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-468	6.0		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-469	6.0		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-470	6.0		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-471	6.0		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-472	6.0		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-473	6.0		1 1/2 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-474	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-475	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-476	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-477	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-478	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-479	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-480	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-481	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-482	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-483	5.5		3 inch inner PVC acid pipe from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-484	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-485	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-486	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-487	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-488	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-489	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D23-J23	B310-IW (2)	B310-IW (2)-490	5.5		Acid/Fluoride secondary containment tray from D23-J23 staged in Area 1.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-491	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-492	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-493	6.0		3 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-494	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-495	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-496	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-497	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-498	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-499	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-500	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-501	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-502	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-503	6.0		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-504	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-505	5.5		3 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-506	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-507	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-508	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-509	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-510	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-511	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-512	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-513	5.5		3 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-514	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-515	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-516	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-517	5.5		1 1/2 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-518	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-519	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-520	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-521	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-522	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-523	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-524	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-525	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-526	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-527	5.5		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-528	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-529	6.0		1 1/2 inch PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-530	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-531	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-532	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-533	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-534	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-535	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-536	6.0		1 1/2 inch PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-537	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-538	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-539	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-540	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-541	5.5		1 inch inner PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-542	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-543	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-544	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-545	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-546	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-547	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-548	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-549	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-550	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-551	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-552	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-553	5.5		1 inch inner PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-554	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-555	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-556	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-557	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-558	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-559	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-560	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-561	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-562	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-563	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-564	5.5		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-565	6.0		1 inch inner PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-566	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-567	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-568	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-569	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-570	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-571	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-572	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-573	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-574	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-575	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-576	6.0		1 inch inner PVC acid pipe from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-577	6.0		1 inch inner PVC acid pipe from D21-J21.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-578	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-579	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-580	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-581	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-582	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-583	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/20/2016	310	D21-J21	B310-IW (2)	B310-IW (2)-584	5.5		Acid/Fluoride secondary containment tray from D21-J21.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-585	5.5		3 inch PVC acid pipe from B31- that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-586	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-587	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-588	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-589	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-590	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-591	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-592	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-593	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-594	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-595	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-596	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-597	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-598	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-599	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-600	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-601	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-602	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-603	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-604	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-605	5.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-606	6.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-607	6.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-608	6.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-609	6.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-610	6.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-611	6.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-612	6.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-613	6.5		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-614	7.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-615	7.0		3 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-616	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-617	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-618	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-619	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-620	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-621	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-622	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-623	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-624	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-625	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-626	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-627	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-628	5.5		1 inch PVC acid pipe from B310 that had residue cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-629	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-630	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-631	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-632	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-633	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-634	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-635	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-636	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-637	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-638	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-639	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-640	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	310	B310-IW (2)	B310-IW (2)-641	5.5		Acid/Fluoride secondary containment tray from B310 cleaned by Techtron.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-642	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-643	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-644	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-645	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-646	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-647	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-648	5.5		Acid/Fluoride secondary containment tray from G16 to J16.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-649	5.5		PVC acid pipe from Area 70.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-650	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-651	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-652	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-653	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-654	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-655	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-656	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-657	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-658	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-659	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-660	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-661	5.5		PVC acid pipe from Area 70.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-662	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-663	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-664	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-665	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-666	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-667	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-668	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-669	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-670	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-671	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-672	5.5		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-673	6.0		PVC acid pipe from Area 70.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-674	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-675	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-676	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-677	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-678	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-679	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-680	6.0		PVC acid pipe from Area 70.
7/28/2016	310	70	B310-IW (2)	B310-IW (2)-681	6.0		PVC acid pipe from Area 70.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-682	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-683	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-684	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-685	5.5		PVC acid pipe from G16 to J16 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-686	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-687	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-688	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-689	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-690	5.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-691	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-692	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-693	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-694	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-695	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-696	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-697	6.0		PVC acid pipe from G16 to J16 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-698	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-699	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-700	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-701	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-702	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-703	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-704	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-705	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-706	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-707	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-708	6.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-709	6.5		PVC acid pipe from G16 to J16 line.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-710	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-711	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-712	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-713	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-714	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-715	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-716	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-717	6.5		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-718	7.0		PVC acid pipe from G16 to J16 line.
7/28/2016	310	G16-J16	B310-IW (2)	B310-IW (2)-719	7.0		PVC acid pipe from G16 to J16 line.
9/7/2016	310	60	B310-IW (2)	B310-IW (2)-720	5.5		PVC acid drain pipe from Area 60.
9/7/2016	310	60	B310-IW (2)	B310-IW (2)-721	5.5		PVC acid drain pipe from Area 60.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/7/2016	310	60	B310-IW (2)	B310-IW (2)-722	5.5		PVC acid drain pipe from Area 60.
9/7/2016	310	60	B310-IW (2)	B310-IW (2)-723	5.5		PVC acid drain pipe from Area 60.
9/7/2016	310	60	B310-IW (2)	B310-IW (2)-724	5.5		PVC acid drain pipe from Area 60.
9/7/2016	310	60	B310-IW (2)	B310-IW (2)-725	5.5		PVC acid drain pipe from Area 60.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-726	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-727	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-728	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-729	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-730	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-731	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-732	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-733	5.5		PVC acid drain pipe from Area 70.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-734	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-735	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-736	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-737	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-738	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-739	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	70	B310-IW (2)	B310-IW (2)-740	5.5		PVC acid drain pipe from Area 70.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-741	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-742	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-743	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-744	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-745	6.0		PVC acid drain pipe from Area 24.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-746	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-747	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-748	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-749	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	24	B310-IW (2)	B310-IW (2)-750	6.0		PVC acid drain pipe from Area 24.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-751	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-752	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-753	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-754	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-755	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-756	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-757	5.5		PVC acid drain pipe from Area 19.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-758	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-759	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-760	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-761	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	19	B310-IW (2)	B310-IW (2)-762	5.5		PVC acid drain pipe from Area 19.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-763	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-764	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-765	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-766	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-767	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-768	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-769	5.5		PVC acid drain pipe from Area 23.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-770	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-771	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-772	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-773	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-774	5.5		PVC acid drain pipe from Area 23.
9/7/2016	310	23	B310-IW (2)	B310-IW (2)-775	5.5		PVC acid drain pipe from Area 23.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-776	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-777	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-778	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-779	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-780	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-781	5.5		PVC acid vent pipe from Area 30.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-782	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-783	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-784	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-785	5.5		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-786	6.0		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-787	6.0		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-788	6.0		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-789	6.0		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-790	6.0		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-791	6.0		PVC acid vent pipe from Area 30.
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-792	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-793	5.5		PVC acid drain pipe from Area 30

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-794	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-795	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-796	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-797	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-798	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-799	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-800	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-801	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-802	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-803	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-804	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-805	5.5		PVC acid drain pipe from Area 30

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-806	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-807	5.5		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-808	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-809	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-810	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-811	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-812	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-813	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-814	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-815	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-816	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-817	6.0		PVC acid drain pipe from Area 30

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-818	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-819	6.0		PVC acid drain pipe from Area 30
9/12/2016	310	30	B310-IW (2)	B310-IW (2)-820	6.0		PVC acid drain pipe from Area 30
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-821	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-822	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-823	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-824	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-825	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-826	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-827	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-828	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-829	5.5		PVC acid drain pipe from Areas 29/36/33

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-830	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-831	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-832	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-833	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-834	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-835	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-836	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-837	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-838	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-839	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-840	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-841	5.5		PVC acid drain pipe from Areas 29/36/33

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-842	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-843	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-844	5.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-845	6.5		PVC acid drain pipe from Areas 29/36/33
9/14/2016	310	29/36/33	B310-IW (2)	B310-IW (2)-846	7.0		PVC acid drain pipe from Areas 29/36/33
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-1	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-2	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-3	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-4	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-5	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-6	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-7	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-8	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-9	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-10	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-11	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-12	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-13	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-14	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-15	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-16	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-17	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-18	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-19	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-20	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-21	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-22	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-23	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-24	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-25	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-26	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-27	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-28	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-29	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-30	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-31	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-32	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-33	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-34	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-35	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-36	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-37	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-38	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-39	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-40	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-41	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-42	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-43	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-44	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-45	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-46	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-47	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-48	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-49	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-50	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-51	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-52	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-53	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-54	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-55	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-56	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-57	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-58	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-59	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-60	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-61	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-62	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-63	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-64	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-65	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-66	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-67	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-68	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-69	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-70	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-71	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-72	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-73	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-74	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-75	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-76	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-77	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-78	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-79	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-80	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-81	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-82	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-83	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-84	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-85	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-86	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-87	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-88	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-89	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-90	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-91	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-92	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-93	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-94	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-95	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-96	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-97	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-98	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-99	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
2/24/2016	310	310	B310-SO(2)	B310-SO(2)-100	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-101	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-102	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-103	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-104	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-105	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-106	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-107	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-108	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-109	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-110	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-111	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-112	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-113	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-114	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-115	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-116	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-117	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-118	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-119	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-120	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-121	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-122	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-123	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-124	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-125	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-126	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-127	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-128	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-129	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-130	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-131	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-132	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-133	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-134	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-135	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-136	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-137	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-138	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-139	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-140	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-141	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-142	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-143	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-144	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-145	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-146	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-147	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-148	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-149	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-150	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-151	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-152	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-153	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-154	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-155	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-156	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-157	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-158	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-159	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-160	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-161	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-162	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-163	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-164	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-165	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-166	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-167	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-168	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-169	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/9/2016	310	310	B310-SO(2)	B310-SO(2)-170	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-171	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-172	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-173	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-174	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-175	6.0		Solvent Pipe above the ceiling between columns M14 to J12.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-176	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-177	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-178	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-179	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-180	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-181	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-182	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-183	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-184	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-185	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-186	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-187	6.0		Solvent Pipe above the ceiling between columns M14 to J12.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-188	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-189	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-190	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-191	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/10/2016	310	310	B310-SO(2)	B310-SO(2)-192	6.0		Solvent Pipe above the ceiling between columns M14 to J12.
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-193	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-194	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-195	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-196	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-197	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-198	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-199	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-200	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-201	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-202	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-203	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-204	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-205	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-206	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-207	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-208	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-209	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-210	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-211	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-212	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-213	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-214	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-215	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-216	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-217	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-218	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-219	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-220	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-221	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-222	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-223	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-224	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-225	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-226	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-227	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-228	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-229	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-230	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-231	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
3/31/2016	310	310	B310-SO(2)	B310-SO(2)-232	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-233	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-234	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-235	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-236	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-237	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-238	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-239	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-240	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-241	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-242	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-243	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-244	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-245	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-246	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-247	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-248	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-249	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-250	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-251	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-252	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-253	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-254	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-255	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-256	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-257	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-258	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-259	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

9/16/2016

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-260	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-261	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-262	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-263	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-264	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-265	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-266	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-267	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-268	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-269	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-270	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-271	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
4/4/2016	310	310	B310-SO(2)	B310-SO(2)-272	6.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-273	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-274	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-275	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-276	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-277	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-278	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-279	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-280	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-281	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-282	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-283	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-284	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-285	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-286	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-287	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-288	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-289	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-290	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-291	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-292	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-293	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-294	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-295	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-296	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-297	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-298	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-299	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-300	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-301	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-302	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-303	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-304	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-305	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-306	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-307	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-308	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-309	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-310	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-311	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-312	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-313	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-314	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-315	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-316	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-317	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-318	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-319	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-320	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-321	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-322	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-323	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-324	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-325	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-326	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-327	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-328	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-329	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-330	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-331	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-332	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-333	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-334	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-335	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-336	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-337	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-338	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-339	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-340	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-341	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-342	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-343	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-344	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-345	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-346	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-347	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-348	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-349	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-350	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-351	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-352	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-353	5.0		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-354	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-355	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-356	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-357	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-358	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-359	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-360	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-361	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-362	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-363	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-364	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-365	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-366	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-367	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-368	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-369	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-370	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-371	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-372	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-373	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-374	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-375	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-376	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-377	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-378	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-379	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-380	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-381	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-382	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-383	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-384	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-385	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-386	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-387	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-388	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-389	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-390	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-391	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 18
Building 310 SWMU Piping Above Ceiling
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-392	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-393	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-394	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-395	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-396	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-397	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron
5/5/2016	310	310	B310-SO(2)	B310-SO(2)-398	5.5		Solvent pipe removed from above ceiling in B310 cleaned by Techtron

Total Wastewater Pipe Samples	1805	Maximum pH	7.0	Minimum pH	5.0
Total FL Pipe Samples	561	Maximum pH	7.0	Minimum pH	5.0
Total IW Pipe Samples	846	Maximum pH	7.0	Minimum pH	5.0
Total SO Pipe Samples	398	Maximum pH	6.0	Minimum pH	5.0

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 19
Building 310 Area 52
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	52	B/310 LS IW	ACID#61-1	5.5		Inside bottom of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-2	5.5		Inside bottom of catch pan to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-3	5.5		Top of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-4	5.5		Inside pipe coming off of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-5	5.5		Inside pipe coming off of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-6	5.5		Inside pipe coming off of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-7	5.5		Inside pipe coming off of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#61-8	5.5		Inside pipe coming off of lift tank to Acid #61 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-1	5.5		Inside bottom of lift tank to Acid #59 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-2	5.5		Inside bottom of catch pan to Acid #59 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-3	5.5		Top of lift tank to Acid #59 lift pump at column F14

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 19
Building 310 Area 52
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	52	B/310 LS IW	ACID#59-4	5.5		Inside pipe coming off of lift tank to Acid #59 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-5	5.5		Inside pipe coming off of lift tank to Acid #59 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-6	5.5		Inside pipe coming off of lift tank to Acid #59 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-7	5.5		Inside pipe coming off of lift tank to Acid #59 lift pump at column F14
2/22/2016	310	52	B/310 LS IW	ACID#59-8	5.5		Inside pipe coming off of lift tank to Acid #59 lift pump at column F14

Total Number of Samples 16 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 20
Building 310 Area 18
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/22/2016	310	18	B/310 LS IW	ACID#97-1	6.0		Inside bottom of lift tank to Acid #97 lift pump between columns P8 and P9
2/22/2016	310	18	B/310 LS IW	ACID#97-2	6.0		Inside bottom of catch pan to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-3	6.0		Top of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-4	6.0		Inside drain pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-5	6.0		Inside drain pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-6	6.0		Inside drain pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-7	6.0		Inside drain pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-8	6.0		Inside drain pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-9	5.5		Inside vent pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.
2/22/2016	310	18	B/310 LS IW	ACID#97-10	5.5		Inside vent pipe coming off of lift tank to Acid #97 lift pump between columns P8 and P9.

Total Number of Samples 10 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 21
Building 310 Area 57
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	57	B/310 LS IW	ECOL#2376-1	6.0		Inside pump tank of acid lift tank ECOL #2376 at column G17.
2/24/2016	310	57	B/310 LS IW	ECOL#2376-2	5.5		Inside vent pipe to acid lift tank ECOL #2376 at column G17.
2/24/2016	310	57	B/310 LS IW	ECOL#2376-3	6.0		Inside drain pipe to acid lift tank ECOL #2376 at column G17.
2/24/2016	310	57	B/310 LS IW	ECOL#2376-4	6.0		Inside drain pipe to acid lift tank ECOL #2376 at column G17.
2/24/2016	310	57	B/310 LS IW	ECOL#2263-1	6.0		Inside pump tank of acid lift tank ECOL #2263 at column F17.
2/24/2016	310	57	B/310 LS IW	ECOL#2263-2	5.5		Inside vent pipe to acid lift tank ECOL #2263 at column F17.
2/24/2016	310	57	B/310 LS IW	ECOL#2263-3	5.5		Inside drain pipe to acid lift tank ECOL #2263 at column F17.
2/24/2016	310	57	B/310 LS IW	ECOL#2263-4	6.0		Inside drain pipe to acid lift tank ECOL #2263 at column F17.
2/24/2016	310	57	B/310 LS IW	ECOL#2263-5	6.0		Inside drain pipe to acid lift tank ECOL #2263 at column F17.

Total Number of Samples 9 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 22
Building 310 Area 49
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	49	B/310 LS IW	ACID#12-1	6.0		Inside bottom of lift tank to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-2	7.0		Inside bottom of catch pan to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-3	6.0		Top of lift tank to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-4	6.0		Inside vent pipe coming off of lift tank to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-5	6.0		Inside drain pipe coming off of lift tank to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-6	6.0		Inside drain pipe coming off of lift tank to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-7	6.0		Inside drain pipe coming off of lift tank to Acid #12 lift pump at column E13.
2/24/2016	310	49	B/310 LS IW	ACID#12-8	6.5		Inside drain pipe coming off of lift tank to Acid #12 lift pump at column E13.

Total Number of Samples 8 Maximum pH 7.0 Minimum pH 6.0

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 23
Building 310 Area 23
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	23	B/310 LS IW	ACID#73-1	5.5		Inside bottom of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-2	5.5		Inside bottom of catch pan to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-3	5.5		Top of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-4	5.5		Inside vent pipe coming off of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-5	5.5		Inside vent pipe coming off of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-6	5.5		Inside drain pipe coming off of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-7	5.5		Inside drain pipe coming off of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-8	5.5		Inside drain pipe coming off of lift tank to Acid #73 lift pump at column M6.
2/24/2016	310	23	B/310 LS IW	ACID#73-9	5.5		Inside drain pipe coming off of lift tank to Acid #73 lift pump at column M6.

Total Number of Samples 9 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 24
Building 310 Area 24
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/24/2016	310	21	B/310 LS IW	ACID#2-1	6.0		Inside bottom of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-2	5.5		Inside bottom of catch pan to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-3	5.5		Top of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-4	5.5		Inside vent pipe coming off of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-5	5.5		Inside vent pipe coming off of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-6	5.5		Inside drain pipe coming off of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-7	5.5		Inside drain pipe coming off of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-8	5.5		Inside drain pipe coming off of lift tank to Acid #2 lift pump at column P6.
2/24/2016	310	21	B/310 LS IW	ACID#2-9	5.5		Inside drain pipe coming off of lift tank to Acid #2 lift pump at column P6.

Total Number of Samples 9 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 25
Building 310
SWMU Pipe Camera Inspection
DCAP EOL ARO Project

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/5/2016	14:59, 15:00	2	310	B310-SO(2)	B310-SO(2)-CAM-1	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/12/2016	15:34	3	310	B310-SO(2)	B310-SO(2)-CAM-2	Passed	Passed inspection after being re-cleaned by Techtron. 3 in. ID outer steel solvent containment pipe
5/5/2016	15:37, 15:40	2	310	B310-SO(2)	B310-SO(2)-CAM-3	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/6/2016	10:13	2	310	B310-SO(2)	B310-SO(2)-CAM-4	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:14, 10:15	5	310	B310-SO(2)	B310-SO(2)-CAM-5	Failed	3 in. ID outer steel solvent containment pipe, with black shinny staining.
5/6/2016	10:17	3	310	B310-SO(2)	B310-SO(2)-CAM-6	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:19	3	310	B310-SO(2)	B310-SO(2)-CAM-7	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:21, 10:22	3	310	B310-SO(2)	B310-SO(2)-CAM-8	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:23	3	310	B310-SO(2)	B310-SO(2)-CAM-9	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:25	3	310	B310-SO(2)	B310-SO(2)-CAM-10	Passed	3 in. ID outer steel solvent containment pipe, with rusty scale.
5/6/2016	10:26	2	310	B310-SO(2)	B310-SO(2)-CAM-11	Passed	3 in. ID outer steel solvent containment pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/6/2016	10:32	2	310	B310-SO(2)	B310-SO(2)-CAM-12	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:33	2	310	B310-SO(2)	B310-SO(2)-CAM-13	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	10:34	2	310	B310-SO(2)	B310-SO(2)-CAM-14	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:43	2	310	B310-SO(2)	B310-SO(2)-CAM-15	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:44	2	310	B310-SO(2)	B310-SO(2)-CAM-16	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:46	2	310	B310-SO(2)	B310-SO(2)-CAM-17	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:47	2	310	B310-SO(2)	B310-SO(2)-CAM-18	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:48	2	310	B310-SO(2)	B310-SO(2)-CAM-19	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:38	3	310	B310-SO(2)	B310-SO(2)-CAM-20	Passed	Passed inspection after being re-cleaned by Techtron. 3 in. ID outer steel solvent containment pipe.
5/6/2016	11:51	2	310	B310-SO(2)	B310-SO(2)-CAM-21	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:52	2	310	B310-SO(2)	B310-SO(2)-CAM-22	Passed	3 in. ID outer steel solvent containment pipe, with scale and mineral build up.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 25
Building 310
SWMU Pipe Camera Inspection
DCAP EOL ARO Project

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/6/2016	11:53	2	310	B310-SO(2)	B310-SO(2)-CAM-23	Passed	3 in. ID outer steel solvent containment pipe, with rusty scale.
5/6/2016	11:54	2	310	B310-SO(2)	B310-SO(2)-CAM-24	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:14	3	310	B310-SO(2)	B310-SO(2)-CAM-25	Passed	Passed inspection after being re-cleaned by Techtron. 3 in. ID outer steel solvent containment pipe.
5/6/2016	11:56	2	310	B310-SO(2)	B310-SO(2)-CAM-26	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	11:57	2	310	B310-SO(2)	B310-SO(2)-CAM-27	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:28, 12:29	2	310	B310-SO(2)	B310-SO(2)-CAM-28	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:30	2	310	B310-SO(2)	B310-SO(2)-CAM-29	Passed	3 in. ID outer steel solvent containment pipe, with rusty scale.
5/6/2016	12:31	2	310	B310-SO(2)	B310-SO(2)-CAM-30	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:33	3	310	B310-SO(2)	B310-SO(2)-CAM-31	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/6/2016	12:34	2	310	B310-SO(2)	B310-SO(2)-CAM-32	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/6/2016	12:35	2	310	B310-SO(2)	B310-SO(2)-CAM-33	Passed	3 in. ID outer steel solvent containment pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/6/2016	12:41	1	310	B310-SO(2)	B310-SO(2)-CAM-34	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:41, 12:42	3	310	B310-SO(2)	B310-SO(2)-CAM-35	Failed	3 in. ID outer steel solvent containment pipe, with shinny staining material.
5/6/2016	12:43	2	310	B310-SO(2)	B310-SO(2)-CAM-36	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:13	3	310	B310-SO(2)	B310-SO(2)-CAM-37	Passed	Passed inspection after being re-cleaned by Techtron. 3 in. ID reduced to 2 in. ID outer steel solvent containment pipe.
5/6/2016	12:47	3	310	B310-SO(2)	B310-SO(2)-CAM-38	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:49	2	310	B310-SO(2)	B310-SO(2)-CAM-39	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:50	1	310	B310-SO(2)	B310-SO(2)-CAM-40	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:51	2	310	B310-SO(2)	B310-SO(2)-CAM-41	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:51	2	310	B310-SO(2)	B310-SO(2)-CAM-42	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:52	2	310	B310-SO(2)	B310-SO(2)-CAM-43	Passed	3 in. ID outer steel solvent containment pipe
5/6/2016	12:53	2	310	B310-SO(2)	B310-SO(2)-CAM-44	Passed	3 in. ID outer steel solvent containment pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/12/2016	13:47	2	310	B310-SO(2)	B310-SO(2)-CAM-45	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	13:49	2	310	B310-SO(2)	B310-SO(2)-CAM-46	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	13:50	2	310	B310-SO(2)	B310-SO(2)-CAM-47	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	13:51	2	310	B310-SO(2)	B310-SO(2)-CAM-48	Failed	1 3/4 in. ID steel solvent waste pipe (Video)
5/12/2016	13:53	2	310	B310-SO(2)	B310-SO(2)-CAM-49	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	13:54	2	310	B310-SO(2)	B310-SO(2)-CAM-50	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	13:55	2	310	B310-SO(2)	B310-SO(2)-CAM-51	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	13:56	2	310	B310-SO(2)	B310-SO(2)-CAM-52	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	13:57	2	310	B310-SO(2)	B310-SO(2)-CAM-53	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:00	2	310	B310-SO(2)	B310-SO(2)-CAM-54	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:01	2	310	B310-SO(2)	B310-SO(2)-CAM-55	Passed	3 in. ID outer steel solvent containment pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/12/2016	14:02	2	310	B310-SO(2)	B310-SO(2)-CAM-56	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/12/2016	14:04	2	310	B310-SO(2)	B310-SO(2)-CAM-57	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:05	3	310	B310-SO(2)	B310-SO(2)-CAM-58	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	14:06	2	310	B310-SO(2)	B310-SO(2)-CAM-59	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/12/2016	14:07	2	310	B310-SO(2)	B310-SO(2)-CAM-60	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:08	2	310	B310-SO(2)	B310-SO(2)-CAM-61	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	14:09	3	310	B310-SO(2)	B310-SO(2)-CAM-62	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:10	2	310	B310-SO(2)	B310-SO(2)-CAM-63	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	14:11	3	310	B310-SO(2)	B310-SO(2)-CAM-64	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:12	3	310	B310-SO(2)	B310-SO(2)-CAM-65	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	14:13	3	310	B310-SO(2)	B310-SO(2)-CAM-66	Passed	3 in. ID outer steel solvent containment pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 25
Building 310
SWMU Pipe Camera Inspection
DCAP EOL ARO Project

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/12/2016	14:14 14:15	3	310	B310-SO(2)	B310-SO(2)-CAM-67	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:07 15:08	2	310	B310-SO(2)	B310-SO(2)-CAM-68	Failed	3 in. ID outer steel solvent containment pipe with valve stems coming out of side of pipe.
5/12/2016	15:09	2	310	B310-SO(2)	B310-SO(2)-CAM-69	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:11	2	310	B310-SO(2)	B310-SO(2)-CAM-70	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:15	3	310	B310-SO(2)	B310-SO(2)-CAM-71	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:22	2	310	B310-SO(2)	B310-SO(2)-CAM-72	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:22 15:23	3	310	B310-SO(2)	B310-SO(2)-CAM-73	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:24	3	310	B310-SO(2)	B310-SO(2)-CAM-74	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:25	3	310	B310-SO(2)	B310-SO(2)-CAM-75	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:26	3	310	B310-SO(2)	B310-SO(2)-CAM-76	Passed	3 in. ID outer steel solvent containment pipe
5/12/2016	15:27	3	310	B310-SO(2)	B310-SO(2)-CAM-77	Failed	1 3/4 in. ID steel solvent waste pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 25
Building 310
SWMU Pipe Camera Inspection
DCAP EOL ARO Project

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/12/2016	15:32	3	310	B310-SO(2)	B310-SO(2)-CAM-78	Failed	1 3/4 in. ID steel solvent waste pipe with flange at end.
5/12/2016	15:41	3	310	B310-SO(2)	B310-SO(2)-CAM-79	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:46	3	310	B310-SO(2)	B310-SO(2)-CAM-80	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:47	3	310	B310-SO(2)	B310-SO(2)-CAM-81	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:48	3	310	B310-SO(2)	B310-SO(2)-CAM-82	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:49	3	310	B310-SO(2)	B310-SO(2)-CAM-83	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:50	2	310	B310-SO(2)	B310-SO(2)-CAM-84	Passed	3 in. ID outer steel solvent containment pipe, with rusty scale.
5/12/2016	15:51	4	310	B310-SO(2)	B310-SO(2)-CAM-85	Failed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:54 15:55	3	310	B310-SO(2)	B310-SO(2)-CAM-86	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	15:56	3	310	B310-SO(2)	B310-SO(2)-CAM-87	Passed	1 3/4 in. ID steel solvent waste pipe, with rusty scale.
5/12/2016	15:58	3	310	B310-SO(2)	B310-SO(2)-CAM-88	Passed	1 3/4 in. ID steel solvent waste pipe with flange at end. Rusty scale observed inside.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/12/2016	16:00	3	310	B310-SO(2)	B310-SO(2)-CAM-89	Passed	1 3/4 in. ID steel solvent waste pipe with slight build up of rusty scale and mineral deposit.
5/12/2016	16:01	3	310	B310-SO(2)	B310-SO(2)-CAM-90	Passed	1 3/4 in. ID steel solvent waste pipe
5/12/2016	16:02 16:03	3	310	B310-SO(2)	B310-SO(2)-CAM-91	Failed	1 3/4 in. ID steel solvent waste pipe with flange in middle.
5/16/2016	9:32	2	310	B310-SO(2)	B310-SO(2)-CAM-92	Passed	1 3/4 in. ID steel solvent waste pipe with 90 degree angle with flange at end.
5/16/2016	9:34	3	310	B310-SO(2)	B310-SO(2)-CAM-93	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	9:35	2	310	B310-SO(2)	B310-SO(2)-CAM-94	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	9:36 9:37	3	310	B310-SO(2)	B310-SO(2)-CAM-95	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	9:38	2	310	B310-SO(2)	B310-SO(2)-CAM-96	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	9:39	3	310	B310-SO(2)	B310-SO(2)-CAM-97	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	9:40	3	310	B310-SO(2)	B310-SO(2)-CAM-98	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	9:41	4	310	B310-SO(2)	B310-SO(2)-CAM-99	Passed	3 in. ID outer steel solvent containment pipe

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/16/2016	9:43	3	310	B310-SO(2)	B310-SO(2)-CAM-100	Failed	1 3/4 in. ID steel solvent waste pipe with black shinny residue.
5/16/2016	9:45	3	310	B310-SO(2)	B310-SO(2)-CAM-101	Passed	3 in. ID outer steel solvent containment pipe with rusty scale.
5/16/2016	9:46	3	310	B310-SO(2)	B310-SO(2)-CAM-102	Failed	3 in. ID outer steel solvent containment pipe, with black residual build up.
5/16/2016	9:48	3	310	B310-SO(2)	B310-SO(2)-CAM-103	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	9:49	3	310	B310-SO(2)	B310-SO(2)-CAM-104	Failed	1 3/4 in. ID steel solvent waste pipe with flange at end that has black shinny residue build up.
5/16/2016	9:50	3	310	B310-SO(2)	B310-SO(2)-CAM-105	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	9:51 9:52	3	310	B310-SO(2)	B310-SO(2)-CAM-106	Failed	1 3/4 in. ID steel solvent waste pipe with black residue build up.
5/16/2016	9:54 9:55	3	310	B310-SO(2)	B310-SO(2)-CAM-107	Failed	1 in. ID steel solvent waste pipe with black residue build up.
5/16/2016	9:57	4	310	B310-SO(2)	B310-SO(2)-CAM-108	Failed	1 3/4 in. ID steel solvent waste pipe with black residue build up.
5/16/2016	9:58	3	310	B310-SO(2)	B310-SO(2)-CAM-109	Failed	1 3/4 in. ID steel solvent waste pipe with black residue build up.
5/16/2016	10:02	3	310	B310-SO(2)	B310-SO(2)-CAM-110	Failed	1 3/4 in. ID steel solvent waste pipe with black residue build up.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 25
Building 310
SWMU Pipe Camera Inspection
DCAP EOL ARO Project

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/16/2016	10:03	2	310	B310-SO(2)	B310-SO(2)-CAM-111	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	10:04	2	310	B310-SO(2)	B310-SO(2)-CAM-112	Failed	1 3/4 in. ID steel solvent waste pipe with excessive residual build up.
5/16/2016	10:05	3	310	B310-SO(2)	B310-SO(2)-CAM-113	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	10:09	2	310	B310-SO(2)	B310-SO(2)-CAM-114	Passed	3 in. ID outer steel solvent containment pipe with rusty scale.
5/16/2016	10:10 10:11	3	310	B310-SO(2)	B310-SO(2)-CAM-115	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	10:12	2	310	B310-SO(2)	B310-SO(2)-CAM-116	Passed	3 in. ID outer steel solvent containment pipe with rusty scale.
5/16/2016	10:13	3	310	B310-SO(2)	B310-SO(2)-CAM-117	Passed	1 3/4 in. ID steel solvent waste pipe with flange in the middle that has rusty scale and mineral deposit.
5/16/2016	10:15	3	310	B310-SO(2)	B310-SO(2)-CAM-118	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	10:16	3	310	B310-SO(2)	B310-SO(2)-CAM-119	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	10:18	3	310	B310-SO(2)	B310-SO(2)-CAM-120	Passed	3 in. ID outer steel solvent containment pipe.
5/16/2016	10:19	3	310	B310-SO(2)	B310-SO(2)-CAM-121	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/16/2016	10:19	3	310	B310-SO(2)	B310-SO(2)-CAM-122	Failed	1 3/4 in. ID steel solvent waste pipe with rusty scale and black residual build up.
5/16/2016	10::25	3	310	B310-SO(2)	B310-SO(2)-CAM-123	Passed	3 in. ID outer steel solvent containment pipe.
5/16/2016	10:25 10:26	2	310	B310-SO(2)	B310-SO(2)-CAM-124	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	10:26	2	310	B310-SO(2)	B310-SO(2)-CAM-125	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	10:27 10:28	2	310	B310-SO(2)	B310-SO(2)-CAM-126	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	10:32	3	310	B310-SO(2)	B310-SO(2)-CAM-127	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	10:32 10:33	4	310	B310-SO(2)	B310-SO(2)-CAM-128	Failed	1 3/4 in. ID steel solvent waste pipe with rusty scale and black residual build up.
5/16/2016	10:35	4	310	B310-SO(2)	B310-SO(2)-CAM-129	Passed	1 3/4 in. ID steel solvent waste pipe with flange in the middle that has rusty scale and mineral deposit.
5/16/2016	10:37	3	310	B310-SO(2)	B310-SO(2)-CAM-130	Passed	1 3/4 in. ID steel solvent waste pipe with open flange at end.
5/16/2016	10:38	3	310	B310-SO(2)	B310-SO(2)-CAM-131	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.
5/16/2016	10:39	3	310	B310-SO(2)	B310-SO(2)-CAM-132	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/16/2016	10:40	3	310	B310-SO(2)	B310-SO(2)-CAM-133	Failed	1 3/4 in. ID steel solvent waste pipe with residual build up.
5/16/2016	10:41	3	310	B310-SO(2)	B310-SO(2)-CAM-134	Failed	1 3/4 in. ID steel solvent waste pipe with black residue build up.
5/16/2016	10:43	2	310	B310-SO(2)	B310-SO(2)-CAM-135	Passed	1 3/4 in. ID steel solvent waste flange connection.
5/16/2016	10:44	2	310	B310-SO(2)	B310-SO(2)-CAM-136	Passed	1 3/4 in. ID stainless steel solvent waste pipe T shaped with one closed end.
5/16/2016	10:45	2	310	B310-SO(2)	B310-SO(2)-CAM-137	Failed	1 3/4 in. ID steel solvent waste pipe with flange that has a 90 degree turn with residual build up.
5/16/2016	10:47	2	310	B310-SO(2)	B310-SO(2)-CAM-138	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	10:48	2	310	B310-SO(2)	B310-SO(2)-CAM-139	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	10:49	2	310	B310-SO(2)	B310-SO(2)-CAM-140	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	10:50 10:51	2	310	B310-SO(2)	B310-SO(2)-CAM-141	Passed	1 3/4 in. ID steel solvent waste pipe with 90 degree angle.
5/16/2016	11:01	2	310	B310-SO(2)	B310-SO(2)-CAM-142	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	11:02 11:03	4	310	B310-SO(2)	B310-SO(2)-CAM-143	Failed	1 3/4 in. ID steel solvent waste pipe with flange and angles that has rusty scale and black residue.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Date	Time	# of Photos	Building	SWMU ID#	Sample #	Inspection Pass/Fail	Description
5/16/2016	11:04 11:05	3	310	B310-SO(2)	B310-SO(2)-CAM-144	Passed	1 3/4 in. ID steel solvent waste pipe
5/16/2016	11:05 11:06	3	310	B310-SO(2)	B310-SO(2)-CAM-145	Failed	1 3/4 in. ID steel solvent waste flange connection with residual build up.
5/16/2016	11:06	2	310	B310-SO(2)	B310-SO(2)-CAM-146	Passed	1 3/4 in. ID inner stainless steel solvent waste pipe
5/16/2016	12:07	2	310	B310-SO(2)	B310-SO(2)-CAM-147	Failed	1 3/4 in. ID steel solvent waste pipe with black shinny residue.
5/16/2016	12:09	2	310	B310-SO(2)	B310-SO(2)-CAM-148	Failed	1 3/4 in. ID steel solvent waste pipe with black residue build up.
5/16/2016	12:10	2	310	B310-SO(2)	B310-SO(2)-CAM-149	Passed	1 3/4 in. ID steel solvent waste pipe with rusty scale.

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 27
Building 310 Area 66
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/19/2016	310	66	B/310 LS IW	ECOL#2468-1	5.5		Inside poly tank to ECOL #2468 lift pump at column C21.
7/19/2016	310	66	B/310 LS IW	ECOL#2468-2	5.5		Inside of pipe coming out of poly tank to ECOL #2468 lift pump at column C21.
7/19/2016	310	66	B/310 LS IW	ECOL#2468-3	5.5		Inside of pipe coming out of poly tank to ECOL #2468 lift pump at column C21.

Total Number of Samples 3 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 28
Building 310 Area 56
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/19/2016	310	56	B/310 LS IW	ECOL#2377-1	6.0		Inside tank to ECOL #2377 lift pump at column H17.
7/19/2016	310	56	B/310 LS IW	ECOL#2377-2	6.0		Inside of pipe coming out of tank to ECOL #2377 lift pump at column H17.
7/19/2016	310	56	B/310 LS IW	ECOL#2377-3	6.0		Inside of pipe coming out of tank to ECOL #2377 lift pump at column H17.

Total Number of Samples 3 Maximum pH 6.0 Minimum pH 6.0

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 29
Building 310 Area 72
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/19/2016	310	72	B/310 LS IW	ECOL#2477-1	5.5		Inside of pipe coming out of tank to ECOL #2477 lift pump at column E25.
7/19/2016	310	72	B/310 LS IW	ECOL#2477-2	5.5		Inside of pipe coming out of tank to ECOL #2477 lift pump at column E25.

Total Number of Samples 2 Maximum pH 5.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 30
Building 310 Area 65
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
7/28/2016	310	65	B/310 LS IW	ACID#90-1	6.5		Inside of discharge pipe coming out of tank to Acid #90 lift pump at column B19.
7/28/2016	310	65	B/310 LS IW	ACID#90-2	6.0		Inside of discharge pipe coming out of tank to Acid #90 lift pump at column B19.
7/28/2016	310	65	B/310 LS IW	ACID#90-3	5.5		Inside of intake pipe coming out of tank to Acid #90 lift pump at column B19.

Total Number of Samples 3 Maximum pH 6.5 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 31
Building 310 Area 68
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
8/18/2016	310	68	B/310 LS IW	ACID#24-1	6.0		Inside bottom of tank to Acid #24 lift pump at column E-23.
8/18/2016	310	68	B/310 LS IW	ACID#24-2	6.0		Inside sidewall of tank to Acid #24 lift pump at column E-23.
8/18/2016	310	68	B/310 LS IW	ACID#24-3	6.0		Inside of discharge pipe coming out of tank to Acid #24 lift pump at column E-23.
8/18/2016	310	68	B/310 LS IW	ACID#24-4	6.0		Top of lid of tank to Acid #24 lift pump at column E-23.
8/18/2016	310	68	B/310 LS IW	ACID#24-5	6.0		Bottom of lid of tank to Acid #24 lift pump at column E-23.

Total Number of Samples 5 Maximum pH 6.0 Minimum pH 6.0

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Table 32
Building 310 Area 26
SWMU Component Verification Data
DCAP EOL ARO Project

Date	Building	Area	SWMU ID#	Sample #	Hydrion [1] (pH Test)	colorpHast[2] (pH Test)	Description
2/23/2016	310	26	B/310 LS IW	ACID#17-1	6.0		Inside bottom of lift tank to Acid #17 lift pump between columns D6 and D7
2/23/2016	310	26	B/310 LS IW	ACID#17-2	6.0		Inside bottom of catch pan to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-3	6.0		Top of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-4	6.0		Inside drain pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-5	6.0		Inside drain pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-6	6.0		Inside drain pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-7	6.0		Inside drain pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-8	6.0		Inside drain pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-9	5.5		Inside copper pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.
2/23/2016	310	26	B/310 LS IW	ACID#17-10	5.5		Inside copper pipe coming off of lift tank to Acid #17 lift pump between columns D6 and D7.

Total Number of Samples 10 Maximum pH 6.0 Minimum pH 5.5

Notes:
1 - HYDRION pH test strips with range from 5.0 to 9.0
2 - colorpHast pH test strips with range from 0 to 14 (same used by Stryker DES)

Attachment C

Analytical Data Tables and Reports For Trenches in Solvent Room and Corrosives Room – SWMU Lift Stations



Attachment C
Table C-1
Area 13 Solvent Room Concrete Trench Sample Results
DCAP SWMU Closure Report
GLOBALFOUNDRIES US 2 LLC FAB 10
Hopewell Junction, NY

ANALYTE	DATE SAMPLE UNITS	7/27/2016 SRT-1 RESULT	Q	MRL	7/27/2016 SRT-2 RESULT	Q	MRL	7/27/2016 SRT-3 RESULT	Q	MRL	7/27/2016 SRT-4 RESULT	Q	MRL	7/27/2016 SRT-5 RESULT	Q	MRL
2-Propanol (Isopropyl Alcohol)	µg/kg	**1700**		10000	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000
n-Butyl Acetate	µg/kg	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000
2-Ethoxyethyl Acetate	µg/kg	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000
gamma-Butyrolactone (GBL)	µg/kg	5000	U	5000	5000	U	5000	5000	U	5000	5000	U	5000	5000	U	5000

ANALYTE	DATE SAMPLE UNITS	7/27/2016 SRT-6 RESULT	Q	MRL	7/27/2016 SRT-Back RESULT	Q	MRL	8/17/2016 SRT-7 RESULT	Q	MRL	8/17/2016 SRT-8 RESULT	Q	MRL
2-Propanol (Isopropyl Alcohol)	µg/kg	10000	U	10000	10000	U	10000	**4500**	**U**	10000	10000	U	10000
n-Butyl Acetate	µg/kg	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000
2-Ethoxyethyl Acetate	µg/kg	10000	U	10000	10000	U	10000	10000	U	10000	10000	U	10000
gamma-Butyrolactone (GBL)	µg/kg	5000	U	5000	5000	U	5000	5000	U	5000	5000	U	5000

Notes:
Detected concentrations are in bold.
Units in µg/kg are equivalent to parts-per-billion by volume.
U- Undetected at the specified method reporting limit.
MRL= Method Reporting Limit.
SRT-1 through 6 are pulverized concrete core samples of trench bottom (0-3 inch interval).
SRT-7 and 8 are pulverized concrete core samples of slab beneath trench liner at and adjacent to the SRT-1 location (0-3 inch interval in underlying slab).
SRT-BACK is the designated background slab sample obtained from adjacent room.

Attachment C
Table C-2
Area 13 Corrosives Room Concrete Trench Sample Results
DCAP SWMU Closure Report
GLOBALFOUNDRIES US 2 LLC FAB 10
Hopewell Junction, NY

ANALYTE	DATE SAMPLE UNITS	7/28/2016 CRT-1 RESULT	Q	MRL	7/28/2016 CRT-2 RESULT	Q	MRL	7/28/2016 CRT-3 RESULT	Q	MRL	7/28/2016 CRT-4 RESULT	Q	MRL	7/27/2016 CRT-BACK RESULT	Q	MRL
Arsenic, Total	mg/kg	**3.59**		0.99	**4.4**		1.0	**2.86**		0.99	**4.4**		0.98	**3.62**		0.99
Barium, Total	mg/kg	**34.3**		2.0	**58.6**		2.0	**27.9**		2.0	**34.6**		2.0	**40.8**		2.0
Cadmium, Total	mg/kg	0.50	U	0.50	0.50	U	0.50	0.50	U	0.50	0.49	U	0.49	0.50	U	0.50
Chromium, Total	mg/kg	**8.03**		0.99	**9.2**		1.0	**7.89**		0.99	**10.6**		0.98	**9.74**		0.99
Lead, Total	mg/kg	5.0	U	5.0	**5.0**		5.0	5.0	U	5.0	**6.5**		4.9	**8.6**		5.0
Mercury, Total	mg/kg	0.032	U	0.032	0.032	U	0.032	0.032	U	0.032	0.032	U	0.032	0.033	U	0.033
Potassium, Total	mg/kg	**990**		200	**1320**		200	**950**		200	**1230**		200	**1430**		200
Selenium, Total	mg/kg	**2.30**		0.99	**2.8**		1.0	**1.75**		0.99	**2.50**		0.98	**1.88**		0.99
Silver, Total	mg/kg	0.99	U	0.99	1.0	U	1.0	0.99	U	0.99	0.98	U	0.98	0.99	U	0.99
Sodium, Total	mg/kg	**339**		99	**370**		100	**308**		99	**414**		98	**569**		99
Ammonia as Nitrogen	mg/kg	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0
Chloride	mg/kg	**38**		30	**56**		30	**41**		30	**71**		30	**361**		30
Nitrate as Nitrogen	mg/kg	10	U	10	10	U	10	10	U	10	10	U	10	10	U	10
Nitrite as Nitrogen	mg/kg	10	U	10	10	U	10	10	U	10	10	U	10	10	U	10
pH	pH Units	**12.06**		-	**12.05**		-	**11.98**		-	**12.0**		-	**11.93**		-
Sulfate	mg/kg	**1130**		120	**1210**		120	**955**		30	**1300**		120	**1100**		120

Notes:
Detected concentrations are in bold.
Units in mg/kg are equivalent to parts-per-million by volume.
U- Undetected at the specified method reporting limit.
MRL= Method Reporting Limit.
CRT-1 through 4 are pulverized concrete core samples of trench bottom (0-3 inch interval).
CRT-BACK is the designated background slab sample obtained from adjacent room.

Attachment C
Table C-3
Area 13 Corrosives Room Concrete Trench Sample Results Compared to Indicator Values
DCAP SWMU Closure Report
GLOBALFOUNDRIES US 2 LLC FAB 10
Hopewell Junction, NY

ANALYTE	DATE SAMPLE UNITS	7/28/2016 CRT-1 RESULT	Q	MRL	7/28/2016 CRT-2 RESULT	Q	MRL	7/28/2016 CRT-3 RESULT	Q	MRL	7/28/2016 CRT-4 RESULT	Q	MRL	7/27/2016 CRT-BACK RESULT	Q	MRL	RCRA Indicator Values	Samples Above RCRA Indicator Values	Unrestricted Soil Use Indicator Values	Samples Above Soil Indicator Values
Arsenic, Total	mg/kg	**3.59**		0.99	**4.4**		1.0	**2.86**		0.99	**4.4**		0.98	**3.62**		0.99	100.0	0	13	0
Barium, Total	mg/kg	**34.3**		2.0	**58.6**		2.0	**27.9**		2.0	**34.6**		2.0	**40.8**		2.0	2000.0	0	350	0
Cadmium, Total	mg/kg	0.50	U	0.50	0.50	U	0.50	0.50	U	0.50	0.49	U	0.49	0.50	U	0.50	20.0	0	2.5	0
Chromium, Total	mg/kg	**8.03**		0.99	**9.2**		1.0	**7.89**		0.99	**10.6**		0.98	**9.74**		0.99	100.0	0	30	0
Lead, Total	mg/kg	5.0	U	5.0	**5.0**		5.0	5.0	U	5.0	**6.5**		4.9	**8.6**		5.0	100.0	0	63	0
Mercury, Total	mg/kg	0.032	U	0.032	0.032	U	0.032	0.032	U	0.032	0.032	U	0.032	0.033	U	0.033	4.0	0	0.18	0
Potassium, Total	mg/kg	**990**		200	**1320**		200	**950**		200	**1230**		200	**1430**		200	NA	NA	NA	NA
Selenium, Total	mg/kg	**2.30**		0.99	**2.8**		1.0	**1.75**		0.99	**2.50**		0.98	**1.88**		0.99	20.0	0	3.9	0
Silver, Total	mg/kg	0.99	U	0.99	1.0	U	1.0	0.99	U	0.99	0.98	U	0.98	0.99	U	0.99	100.0	0	2	0
Sodium, Total	mg/kg	**339**		99	**370**		100	**308**		99	**414**		98	**569**		99	NA	NA	NA	NA
Ammonia as Nitrogen	mg/kg	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	NA	NA	NA	NA
Chloride	mg/kg	**38**		30	**56**		30	**41**		30	**71**		30	**361**		30	NA	NA	NA	NA
Nitrate as Nitrogen	mg/kg	10	U	10	10	U	10	10	U	10	10	U	10	10	U	10	NA	NA	NA	NA
Nitrite as Nitrogen	mg/kg	10	U	10	10	U	10	10	U	10	10	U	10	10	U	10	NA	NA	NA	NA
pH	pH Units	**12.06**		-	**12.05**		-	**11.98**		-	**12.0**		-	**11.93**		-	≥12.5	0	NA	NA
Sulfate	mg/kg	**1130**		120	**1210**		120	**955**		30	**1300**		120	**1100**		120	NA	NA	NA	NA

Notes:
Detected concentrations are in bold.
Units in mg/kg are equivalent to parts-per-million by volume.
U- Undetected at the specified method reporting limit
MRL= Method Reporting Limit.
CRT-1 through 4 are pulverized concrete samples of trench bottom (0-3 inch interval).
CRT-BACK is the designated background slab sample obtained from adjacent room.
RCRA Indicator Value for TCLP metals, analyzed as total metals, is 20 X TCLP limit in the extract to indicate a potential RCRA Characteristic Waste for Toxicity.
RCRA Indicator Value for pH is ≥12.5 to indicate a potential RCRA Characteristic Waste for Corrosivity.
Unrestricted Soil Use Indicator Value: 6NYCRR Part 375-6.8, Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives, used as a reference value for comparison to pulverized concrete.

September 13, 2016 Service Request No:R1607928

Raymond Kapp
ARCADIS U.S., Inc.
17-17 Route 208 North
2nd Floor
Fair Lawn, NJ 07410

Laboratory Results for: DCAP

Dear Raymond,

Enclosed are the results of the sample(s) submitted to our laboratory July 29, 2016
For your reference, these analyses have been assigned our service request number **R1607928.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Solid

Service Request:R1607928
Date Received:7/29/16

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Nineteen solid, wipe and water samples were received for analysis at ALS Environmental on 07/29/2016. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Semi-Volatile Organic Analyses:

Method 8015 08/02/16: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8082, 08/03/16: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Metals Analyses:

No significant anomalies were noted with this analysis.

General Chemistry Analyses:

No significant anomalies were noted with this analysis.

Sample Receiving Notes:

pH was not performed in the field as recommended by the EPA to meet an "immediate" or 15 minute Holding Time. In addition, pH is a temperature dependent analysis. The temperature of the sample during pH measurement is included as required by the method. Samples analyzed in the laboratory have been flagged with an "H" to indicate the "immediate" holding time has been exceeded.

Approved by _____ Date 9/13/2016

SAMPLE DETECTION SUMMARY

CLIENT ID: CRT-4	Lab ID: R1607928-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloride	71		6	30	mg/Kg	9056A
pH	12.00				pH Units	9045D
Sulfate	1300		50	120	mg/Kg	9056A
Arsenic, Total	4.40		0.24	0.98	mg/Kg	6010C
Barium, Total	34.6		0.2	2.0	mg/Kg	6010C
Chromium, Total	10.6		0.13	0.98	mg/Kg	6010C
Lead, Total	6.5		0.3	4.9	mg/Kg	6010C
Potassium, Total	1230		5	200	mg/Kg	6010C
Selenium, Total	2.50		0.60	0.98	mg/Kg	6010C
Sodium, Total	414		11	98	mg/Kg	6010C

CLIENT ID: CRT-3	Lab ID: R1607928-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloride	41		6	30	mg/Kg	9056A
pH	11.98				pH Units	9045D
Sulfate	955		11	30	mg/Kg	9056A
Arsenic, Total	2.86		0.24	0.99	mg/Kg	6010C
Barium, Total	27.9		0.2	2.0	mg/Kg	6010C
Chromium, Total	7.89		0.13	0.99	mg/Kg	6010C
Potassium, Total	950		5	200	mg/Kg	6010C
Selenium, Total	1.75		0.60	0.99	mg/Kg	6010C
Sodium, Total	308		11	99	mg/Kg	6010C

CLIENT ID: CRT-2	Lab ID: R1607928-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloride	56		6	30	mg/Kg	9056A
pH	12.05				pH Units	9045D
Sulfate	1210		50	120	mg/Kg	9056A
Arsenic, Total	4.4		0.3	1.0	mg/Kg	6010C
Barium, Total	58.6		0.2	2.0	mg/Kg	6010C
Chromium, Total	9.2		0.2	1.0	mg/Kg	6010C
Lead, Total	5.0		0.3	5.0	mg/Kg	6010C
Potassium, Total	1320		5	200	mg/Kg	6010C
Selenium, Total	2.8		0.6	1.0	mg/Kg	6010C
Sodium, Total	370		20	100	mg/Kg	6010C

CLIENT ID: CRT-1	Lab ID: R1607928-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloride	38		6	30	mg/Kg	9056A
pH	12.06				pH Units	9045D
Sulfate	1130		50	120	mg/Kg	9056A
Arsenic, Total	3.59		0.24	0.99	mg/Kg	6010C
Barium, Total	34.3		0.2	2.0	mg/Kg	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: CRT-1	Lab ID: R1607928-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chromium, Total	8.03		0.13	0.99	mg/Kg	6010C
Potassium, Total	990		5	200	mg/Kg	6010C
Selenium, Total	2.30		0.60	0.99	mg/Kg	6010C
Sodium, Total	339		11	99	mg/Kg	6010C

CLIENT ID: CRT-BACK	Lab ID: R1607928-005					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloride	361		6	30	mg/Kg	9056A
pH	11.93				pH Units	9045D
Sulfate	1100		50	120	mg/Kg	9056A
Arsenic, Total	3.62		0.24	0.99	mg/Kg	6010C
Barium, Total	40.8		0.2	2.0	mg/Kg	6010C
Chromium, Total	9.74		0.13	0.99	mg/Kg	6010C
Lead, Total	8.6		0.3	5.0	mg/Kg	6010C
Potassium, Total	1430		5	200	mg/Kg	6010C
Selenium, Total	1.88		0.60	0.99	mg/Kg	6010C
Sodium, Total	569		11	99	mg/Kg	6010C

CLIENT ID: SRT-1	Lab ID: R1607928-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
2-Propanol (Isopropyl Alcohol)	17000			10000	ug/Kg	8015C

CLIENT ID: RINSE BLANK	Lab ID: R1607928-018					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
pH	6.68				pH Units	9040C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. **Service Request:**R1607928
Project: DCAP/B000130.0001

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1607928-001	CRT-4	7/28/2016	1015
R1607928-002	CRT-3	7/28/2016	1002
R1607928-003	CRT-2	7/28/2016	0943
R1607928-004	CRT-1	7/28/2016	0908
R1607928-005	CRT-BACK	7/27/2016	1640
R1607928-006	A30-HYD1B	7/28/2016	1420
R1607928-007	A30-HYD1S	7/28/2016	1425
R1607928-008	A30-HYD2B	7/28/2016	1440
R1607928-009	A30-HYD2S	7/28/2016	1445
R1607928-011	SRT-1	7/27/2016	1355
R1607928-012	SRT-2	7/27/2016	1419
R1607928-013	SRT-6	7/27/2016	1614
R1607928-014	SRT-5	7/27/2016	1608
R1607928-015	SRT-3	7/27/2016	1435
R1607928-016	SRT-4	7/27/2016	1549
R1607928-017	SRT-BACK	7/28/2016	1029
R1607928-018	RINSE BLANK	7/28/2016	1505
R1607928-019	TRAVEL BLANK	7/28/2016	1516

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 14623 585-288-5380 FAX 585-288-8475

SR# _____

Project Name: DCAP Project Number: B000130.0001

Project Manager: Ray Kapp Company: Arcadis

Company/Address: 17-17 Rt 208 N. Phone: 845-346-6454

City, State, Zip: Fair Lawn, NJ Email: raymond.kapp@arcadis.com

Sampler's Signature: _____

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: Chloride, Nitrite, Nitrate, Sulfate	Nitrogen, Ammonia	Potassium, Sodium, RCRA Metals	pH	PCBs Aroclors 8082A	REMARKS
CRT-4	7/28/16	1015		S	1	X	X	X	X		
CRT-3	7/28/16	1002		S	1	X	X	X	X		
CRT-2	7/28/16	0943		S	1	X	X	X	X		
CRT-1	7/28/16	0908		S	1	X	X	X	X		
CRT-BACK	7/27/16	1640		S	1	X	X	X	X		
A3D-HYD 1B	7/28/16	1420		wipe						X	
A3D-HYD 1S	7/28/16	1425		wipe						X	
A3D-HYD 2B	7/28/16	1440		wipe						X	
A3D-HYD 2S	7/28/16	1445		wipe						X	
Trip Blank	7/28/16	15:16		W						X	

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 BD

X Standard (15 BD)

____ Provide FAX Preliminary Results

Requested Report Date: _____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

____ I. Routine Report: Results and Method Blank (Surrogate, as required)

____ II. Results w/ QC (Dup., MS, MSD as req)

____ III. Results (with QC and Calibration Summaries)

X IV. ASP-B

____ V. CLP

____ EDD?:

Comments/Special Instructions:

RELINQUISHED BY:

Signature: Raymond M Kapp

Printed Name: RAYMOND M. KAPP

Firm: ARCADIS

Date/Time: 7/28/16 1550

RECEIVED BY:

Signature: _____

Printed Name: M. MADISON

Firm: ALS

Date/Time: 7/28/16 1550

RELINQUISHED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

RECEIVED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/

R1607928 10

ARCADIS U.S., Inc.

DCAP

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 14623 585-288-5380 FAX 585-288-8475

SR# _____

Project Name: DCAP **Project Number:** B0001.30.0001

Project Manager: Ray Kapp **Company:** Arcadis

Company/Address: 17-17Rt 208 N **Phone:** 845-346-6454

City, State, Zip: Fair Lawn NJ 07410 **Email:** Raymond.Kapp@arcadis.com

Sampler's Signature: C. Smith R McKapp

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: Non-Halogenated Semi VOCs (1)	Chloride, Nitrite, Nitrate, Sulfate	Nitrogen, Ammonia	Potassium, Sodium RCRA Metals	pH	REMARKS
SRT-1	7/27/16	13:55		S	1	X					
SRT-2	7/27/16	14:19		Soil	1	X					
SRT-6 (16'14)	7/27/16	16:14		Soil	1	X					
SRT-5 RMK	7/27/16	16:08		S	1	X					
SRT-3	7/27/16	14:35		S	1	X					
SRT-4	7/27/16	15:45		S	1	X					
SRT-Back 7/28/16	~~7/27/16~~ RMK	10:29		S	1	X					
Rinse Blanck	7/28/16	15:05		W	3	X	X	X	X	X	

TURNAROUND REQUIREMENTS

___ 24 hr ___ 48 hr ___ 5 BD

X Standard (15 BD)

___ Provide FAX Preliminary Results

Requested Report Date: _____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

___ I. Routine Report: Results and Method Blank (Surrogate, as required)

___ II. Results w/ QC (Dup., MS, MSD as req)

___ III. Results (with QC and Calibration Summaries)

X IV. ASP-B

___ V. CLP

___ EDD?: _____

Comments/Special Instructions:

(1) Semi-VOCs are limited to IPA, NBA, GBL, CAC

RELINQUISHED BY:

Signature: Raymond M Kapp

Printed Name: Raymond M. Kapp

Firm: Arcadis

Date/Time: 7/28/16 1550

RECEIVED BY:

Signature: _____

Printed Name: M. MADISON

Firm: ALS

Date/Time: 7/28/16 1550

RELINQUISHED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

RECEIVED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date: _____

R1607928 10

ARCADIS U.S., Inc.

DCAP

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 14623 585-288-5380 FAX 585-288-8475

SR# _____

Project Name: DCAP **Project Number:** B000130.0001

Project Manager: Ray Kapp **Company:** Arcadis

Company/Address: 17-17 Rt 208 N. **Phone:** 845-346-6454

City, State, Zip: Fair Lawn, NJ **Email:** raymond.kapp@arcadis.com

Sampler's Signature: _____

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: Chloride, Nitrite, Nitrate, Sulfate	Nitrogen, Ammonia	Potassium, Sodium RCRA Metals	pH	PCBs (Aroclors 8082A)	REMARKS
CRT-4	7/28/16	1015		S	1	X	X	X	X		
CRT-3	7/28/16	1002		S	1	X	X	X	X		
CRT-2	7/28/16	0943		S	1	X	X	X	X		
CRT-1	7/28/16	0908		S	1	X	X	X	X		
CRT-BACK	7/27/16	1640		S	1	X	X	X	X		
A3D-HYD 1B	7/28/16	1420		wipe						X	
A3D-HYD 1S	7/28/16	1425		wipe						X	
A3D-HYD 2B	7/28/16	1440		wipe						X	
A3D-HYD 2S	7/28/16	1445		wipe						X	
Travel Blank	7/28/16	15:16		W						X	

REVISED AR

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 BD

X Standard (15 BD)

____ Provide FAX Preliminary Results

Requested Report Date: _____

REPORT REQUIREMENTS

____ I. Routine Report: Results and Method Blank (Surrogate, as required)

____ II. Results w/ QC (Dup., MS, MSD as req)

____ III. Results (with QC and Calibration Summaries)

X IV. ASP-B

____ V. CLP

____ EDD?:

Comments/Special Instructions:

Invoice Information

P.O. # _____

Bill to: _____

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Raymond M. Kapp	Signature:	Signature:	Signature:
Printed Name: RAYMOND M. KAPP	Printed Name: M. MADISON	Printed Name:	Printed Name:
Firm: ARCADIS	Firm: ALS	Firm:	Firm: ALS
Date/Time: 7/28/16 1550	Date/Time: 7/28/16 1550	Date/Time:	Date/Time: 7/29/16 0915

R1607928 10

ARCADIS U.S., Inc.

DCAP

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 14623 585-288-5380 FAX 585-288-8475

SR# _____

PAGE 2 OF 2

Project Name: DEAP **Project Number:** B0001130.0001

Project Manager: Ray Kapp **Company:** Arcadis

Company/Address: 17-17Rt 208N **Phone:** 845-346-6454

City, State, Zip: Fair Lawn, NJ 07410 **Email:** Raymond.Kapp@arcadis.com

Sampler's Signature: [signature] RMKapp

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: Non-Halogenated Semi VOCs (1)	Chloride, Nitrite, Nitrate, Sulfate	Nitrogen, Ammonia	Potassium, Sodium RCRA Metals	pH	REMARKS
SRT-1	7/27/16	1355		S	1	X					Revised QR
SRT-2	7/27/16	14:19		Soil	1	X					
SRT-6	7/27/16	16:74		Soil	1	X					
SRT-5	7/27/16	16:08		S	1	X					
SRT-3	7/27/16	14:35		S	1	X					
SRT-4	7/27/16	1545		S	1	X					
SRT-Back	7/27/16	10:29		S	1	X					
Rinse Blanck	7/28/16	15:05		W	3	X	X	X	X	X	

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 BD

X Standard (15 BD)

____ Provide FAX Preliminary Results

Requested Report Date: _____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

____ I. Routine Report: Results and Method Blank (Surrogate, as required)

____ II. Results w/ QC (Dup., MS, MSD as req)

____ III. Results (with QC and Calibration Summaries)

X IV. ASP-B

____ V. CLP

____ EDD?:

Comments/Special Instructions:

(1) Semi-VOCs are limited to IPA, NBA, GBL, CAC

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Raymond M. Kapp	Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Raymond M. Kapp	Printed Name: M. MADISON	Printed Name:	Printed Name: Greg LaTorre
Firm: Arcadis	Firm: ALS	Firm:	Firm: ALS
Date/Time: 7/28/16 1550	Date/Time: 7/28/16 1550	Date/Time:	Date/Time: 7/29/16 0905

R1607928 10
ARCADIS U.S., Inc.
DCAP

Cooler Receipt and Preservation Check Form

Project/Client Arcadis Folder Number R1607928

Cooler received on 7/29/16 by: @ COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	(Y) N	5a	Perchlorate samples have required headspace?	Y N (NA)
2	Custody papers properly completed (ink, signed)?	Y (N)	5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	Y N (NA)
3	Did all bottles arrive in good condition (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) (CLIENT)
4	Circle: (Wet Ice) Dry Ice Gel packs present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 7/29/16 Time: 0937 ID: (IR#5) IR#6 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	2.3						
Correction Factor (°C)	+0.2						
Corrected Temp (°C)	2.5°						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by @ on 7/29/16 at 0938
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 7-29-16 Time: 1411C by: RE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? YES (NO) *
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3	X		No Lot Info					
≤2	H_2SO_4		X	None		018	0.5ml	LVC149175E	<2
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 112414-1BNU, 050716-1BNS, 102615-1BLT, 061316-2AAP

Other Comments:

* Rinsate Blank: No aliquot for NH_3 sent. NH_3 aliquot poured off from 5VOA bottle into an H_2SO_4 bottle. Aliquots for NO_3, NO_2, SO_4 poured off into an unpreserved 250ml bottle.

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
(PH)	SUB
SO3	MARRS
ALS	REV

PC Secondary Review: KR

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8015C	Water	2-Ethoxyethyl Acetate
8015C	Water	Isopropyl Alcohol
8015C	Water	gamma-Butyrolactone (GBL)
8015C	Water	n-Butyl Acetate
8015C	Solid	2-Ethoxyethyl Acetate
8015C	Solid	2-Propanol (Isopropyl Alcohol)
8015C	Solid	gamma-Butyrolactone (GBL)
8015C	Solid	n-Butyl Acetate
8082A	Wipe	Aroclor 1016
8082A	Wipe	Aroclor 1221
8082A	Wipe	Aroclor 1232
8082A	Wipe	Aroclor 1242
8082A	Wipe	Aroclor 1248
8082A	Wipe	Aroclor 1254
8082A	Wipe	Aroclor 1260
8082A	Wipe	Aroclor 1262
8082A	Wipe	Aroclor 1268
9040C	Water	pH
ASTM D6919-09	Solid	Ammonia as Nitrogen, undistilled

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001

Sample Name: CRT-4 **Date Collected:** 07/28/16
Lab Code: R1607928-001 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CGILDAY	AMESSUR
7471B	CGILDAY	CGILDAY
9045D		MSTONE
9056A	CWOODS	CWOODS
ASTM D6919-09	NMANSEN	TSABO

Sample Name: CRT-3 **Date Collected:** 07/28/16
Lab Code: R1607928-002 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CGILDAY	AMESSUR
7471B	CGILDAY	CGILDAY
9045D		MSTONE
9056A	CWOODS	CWOODS
ASTM D6919-09	NMANSEN	TSABO

Sample Name: CRT-2 **Date Collected:** 07/28/16
Lab Code: R1607928-003 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CGILDAY	AMESSUR
7471B	CGILDAY	CGILDAY
9045D		MSTONE
9056A	CWOODS	CWOODS
ASTM D6919-09	NMANSEN	TSABO

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001

Sample Name: CRT-1 **Date Collected:** 07/28/16
Lab Code: R1607928-004 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CGILDAY	AMESSUR
7471B	CGILDAY	CGILDAY
9045D		MSTONE
9056A	CWOODS	CWOODS
ASTM D6919-09	NMANSEN	TSABO

Sample Name: CRT-BACK **Date Collected:** 07/27/16
Lab Code: R1607928-005 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CGILDAY	AMESSUR
7471B	CGILDAY	CGILDAY
9045D		MSTONE
9056A	CWOODS	CWOODS
ASTM D6919-09	NMANSEN	TSABO

Sample Name: A30-HYD1B **Date Collected:** 07/28/16
Lab Code: R1607928-006 **Date Received:** 07/29/16
Sample Matrix: Wipe

Analysis Method	Extracted/Digested By	Analyzed By
8082A	DMURPHY	MPEDRO

Sample Name: A30-HYD1S **Date Collected:** 07/28/16
Lab Code: R1607928-007 **Date Received:** 07/29/16
Sample Matrix: Wipe

Analysis Method	Extracted/Digested By	Analyzed By
8082A	DMURPHY	MPEDRO

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001

Sample Name: A30-HYD2B **Date Collected:** 07/28/16
Lab Code: R1607928-008 **Date Received:** 07/29/16
Sample Matrix: Wipe

Analysis Method	Extracted/Digested By	Analyzed By
8082A	DMURPHY	MPEDRO

Sample Name: A30-HYD2S **Date Collected:** 07/28/16
Lab Code: R1607928-009 **Date Received:** 07/29/16
Sample Matrix: Wipe

Analysis Method	Extracted/Digested By	Analyzed By
8082A	DMURPHY	MPEDRO

Sample Name: SRT-1 **Date Collected:** 07/27/16
Lab Code: R1607928-011 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name: SRT-2 **Date Collected:** 07/27/16
Lab Code: R1607928-012 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name: SRT-6 **Date Collected:** 07/27/16
Lab Code: R1607928-013 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001

Sample Name: SRT-5 **Date Collected:** 07/27/16
Lab Code: R1607928-014 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name: SRT-3 **Date Collected:** 07/27/16
Lab Code: R1607928-015 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name: SRT-4 **Date Collected:** 07/27/16
Lab Code: R1607928-016 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name: SRT-BACK **Date Collected:** 07/28/16
Lab Code: R1607928-017 **Date Received:** 07/29/16
Sample Matrix: Solid

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name: RINSE BLANK **Date Collected:** 07/28/16
Lab Code: R1607928-018 **Date Received:** 07/29/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CGILDAY	AMESSUR

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001		

Sample Name:	RINSE BLANK	**Date Collected:**	07/28/16
Lab Code:	R1607928-018	**Date Received:**	07/29/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
7470A	CGILDAY	CGILDAY
8015C		AMOSES
9040C		MSTONE
9056A		CWOODS
ASTM D6919-09		NMANSEN

Sample Name:	TRAVEL BLANK	**Date Collected:**	07/28/16
Lab Code:	R1607928-019	**Date Received:**	07/29/16
Sample Matrix:	Wipe		

Analysis Method	Extracted/Digested By	Analyzed By
8082A	DMURPHY	MPEDRO

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 13:55
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-1	**Units:**	ug/Kg
Lab Code:	R1607928-011	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	**17000**	10000	1	08/08/16 15:00	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 15:00	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 15:00	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 15:00	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	94	70 - 130	08/08/16 15:00	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 14:19
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-2	**Units:**	ug/Kg
Lab Code:	R1607928-012	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	10000 U	10000	1	08/08/16 15:31	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 15:31	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 15:31	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 15:31	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	92	70 - 130	08/08/16 15:31	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 16:14
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-6	**Units:**	ug/Kg
Lab Code:	R1607928-013	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	10000 U	10000	1	08/08/16 16:01	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 16:01	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 16:01	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 16:01	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	98	70 - 130	08/08/16 16:01	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 16:08
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-5	**Units:**	ug/Kg
Lab Code:	R1607928-014	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	10000 U	10000	1	08/08/16 16:32	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 16:32	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 16:32	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 16:32	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	96	70 - 130	08/08/16 16:32	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 14:35
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-3	**Units:**	ug/Kg
Lab Code:	R1607928-015	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	10000 U	10000	1	08/08/16 17:02	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 17:02	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 17:02	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 17:02	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	97	70 - 130	08/08/16 17:02	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 15:49
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-4	**Units:**	ug/Kg
Lab Code:	R1607928-016	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	10000 U	10000	1	08/08/16 17:33	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 17:33	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 17:33	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 17:33	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	95	70 - 130	08/08/16 17:33	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 10:29
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	SRT-BACK	**Units:**	ug/Kg
Lab Code:	R1607928-017	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	10000 U	10000	1	08/08/16 18:03	8/8/16	
n-Butyl Acetate	10000 U	10000	1	08/08/16 18:03	8/8/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/08/16 18:03	8/8/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/08/16 18:03	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	94	70 - 130	08/08/16 18:03	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 15:05
Sample Matrix:	Water	**Date Received:**	07/29/16 09:05
Sample Name:	RINSE BLANK	**Units:**	
Lab Code:	R1607928-018	**Basis:**	NA

Alcohols using GC/FID

Analysis Method: 8015C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
2-Ethoxyethyl Acetate		U	-	1	08/04/16 18:44	
gamma-Butyrolactone (GBL)		U	-	1	08/04/16 18:44	
Isopropyl Alcohol	1000	U	1000	1	08/04/16 18:44	
n-Butyl Acetate	1000	U	1000	1	08/04/16 18:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	96	85 - 121	08/04/16 18:44	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 14:20
Sample Matrix:	Wipe	**Date Received:**	07/29/16 09:05
Sample Name:	A30-HYD1B	**Units:**	ug/WIPE
Lab Code:	R1607928-006	**Basis:**	As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3550C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1221	4.0 U	4.0	1	08/03/16 18:14	8/3/16	
Aroclor 1232	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1242	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1248	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1254	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1260	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1262	2.0 U	2.0	1	08/03/16 18:14	8/3/16	
Aroclor 1268	2.0 U	2.0	1	08/03/16 18:14	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	96	47 - 125	08/03/16 18:14	
Tetrachloro-m-xylene	91	65 - 143	08/03/16 18:14	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 14:25
Sample Matrix:	Wipe	**Date Received:**	07/29/16 09:05
Sample Name:	A30-HYD1S	**Units:**	ug/WIPE
Lab Code:	R1607928-007	**Basis:**	As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3550C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1221	4.0 U	4.0	1	08/03/16 18:40	8/3/16	
Aroclor 1232	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1242	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1248	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1254	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1260	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1262	2.0 U	2.0	1	08/03/16 18:40	8/3/16	
Aroclor 1268	2.0 U	2.0	1	08/03/16 18:40	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	47 - 125	08/03/16 18:40	
Tetrachloro-m-xylene	86	65 - 143	08/03/16 18:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 14:40
Sample Matrix:	Wipe	**Date Received:**	07/29/16 09:05
Sample Name:	A30-HYD2B	**Units:**	ug/WIPE
Lab Code:	R1607928-008	**Basis:**	As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3550C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1221	4.0 U	4.0	1	08/03/16 19:05	8/3/16	
Aroclor 1232	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1242	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1248	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1254	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1260	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1262	2.0 U	2.0	1	08/03/16 19:05	8/3/16	
Aroclor 1268	2.0 U	2.0	1	08/03/16 19:05	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	96	47 - 125	08/03/16 19:05	
Tetrachloro-m-xylene	92	65 - 143	08/03/16 19:05	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 14:45
Sample Matrix:	Wipe	**Date Received:**	07/29/16 09:05
Sample Name:	A30-HYD2S	**Units:**	ug/WIPE
Lab Code:	R1607928-009	**Basis:**	As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3550C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1221	4.0 U	4.0	1	08/03/16 19:31	8/3/16	
Aroclor 1232	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1242	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1248	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1254	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1260	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1262	2.0 U	2.0	1	08/03/16 19:31	8/3/16	
Aroclor 1268	2.0 U	2.0	1	08/03/16 19:31	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	88	47 - 125	08/03/16 19:31	
Tetrachloro-m-xylene	85	65 - 143	08/03/16 19:31	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 15:16
Sample Matrix:	Wipe	**Date Received:**	07/29/16 09:05
Sample Name:	TRAVEL BLANK	**Units:**	ug/WIPE
Lab Code:	R1607928-019	**Basis:**	As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3550C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1221	4.0 U	4.0	1	08/03/16 19:57	8/3/16	
Aroclor 1232	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1242	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1248	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1254	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1260	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1262	2.0 U	2.0	1	08/03/16 19:57	8/3/16	
Aroclor 1268	2.0 U	2.0	1	08/03/16 19:57	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	47 - 125	08/03/16 19:57	
Tetrachloro-m-xylene	83	65 - 143	08/03/16 19:57	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 10:15
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-4	**Basis:**	As Received
Lab Code:	R1607928-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**4.40**	mg/Kg	0.98	1	08/02/16 20:36	08/01/16	
Barium, Total	6010C	**34.6**	mg/Kg	2.0	1	08/02/16 20:36	08/01/16	
Cadmium, Total	6010C	0.49 U	mg/Kg	0.49	1	08/02/16 20:36	08/01/16	
Chromium, Total	6010C	**10.6**	mg/Kg	0.98	1	08/02/16 20:36	08/01/16	
Lead, Total	6010C	**6.5**	mg/Kg	4.9	1	08/02/16 20:36	08/01/16	
Mercury, Total	7471B	0.032 U	mg/Kg	0.032	1	08/05/16 14:09	08/05/16	
Potassium, Total	6010C	**1230**	mg/Kg	200	1	08/02/16 20:36	08/01/16	
Selenium, Total	6010C	**2.50**	mg/Kg	0.98	1	08/03/16 17:14	08/01/16	
Silver, Total	6010C	0.98 U	mg/Kg	0.98	1	08/02/16 20:36	08/01/16	
Sodium, Total	6010C	**414**	mg/Kg	98	1	08/02/16 20:36	08/01/16	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 10:02
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-3	**Basis:**	As Received
Lab Code:	R1607928-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**2.86**	mg/Kg	0.99	1	08/02/16 20:40	08/01/16	
Barium, Total	6010C	**27.9**	mg/Kg	2.0	1	08/02/16 20:40	08/01/16	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	08/02/16 20:40	08/01/16	
Chromium, Total	6010C	**7.89**	mg/Kg	0.99	1	08/02/16 20:40	08/01/16	
Lead, Total	6010C	5.0 U	mg/Kg	5.0	1	08/02/16 20:40	08/01/16	
Mercury, Total	7471B	0.032 U	mg/Kg	0.032	1	08/05/16 14:14	08/05/16	
Potassium, Total	6010C	**950**	mg/Kg	200	1	08/02/16 20:40	08/01/16	
Selenium, Total	6010C	**1.75**	mg/Kg	0.99	1	08/03/16 17:18	08/01/16	
Silver, Total	6010C	0.99 U	mg/Kg	0.99	1	08/02/16 20:40	08/01/16	
Sodium, Total	6010C	**308**	mg/Kg	99	1	08/02/16 20:40	08/01/16	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 09:43
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-2	**Basis:**	As Received
Lab Code:	R1607928-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**4.4**	mg/Kg	1.0	1	08/02/16 20:44	08/01/16	
Barium, Total	6010C	**58.6**	mg/Kg	2.0	1	08/02/16 20:44	08/01/16	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	08/02/16 20:44	08/01/16	
Chromium, Total	6010C	**9.2**	mg/Kg	1.0	1	08/02/16 20:44	08/01/16	
Lead, Total	6010C	**5.0**	mg/Kg	5.0	1	08/02/16 20:44	08/01/16	
Mercury, Total	7471B	0.032 U	mg/Kg	0.032	1	08/05/16 14:15	08/05/16	
Potassium, Total	6010C	**1320**	mg/Kg	200	1	08/02/16 20:44	08/01/16	
Selenium, Total	6010C	**2.8**	mg/Kg	1.0	1	08/02/16 20:44	08/01/16	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	08/02/16 20:44	08/01/16	
Sodium, Total	6010C	**370**	mg/Kg	100	1	08/02/16 20:44	08/01/16	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 09:08
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-1	**Basis:**	As Received
Lab Code:	R1607928-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**3.59**	mg/Kg	0.99	1	08/02/16 20:48	08/01/16	
Barium, Total	6010C	**34.3**	mg/Kg	2.0	1	08/02/16 20:48	08/01/16	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	08/02/16 20:48	08/01/16	
Chromium, Total	6010C	**8.03**	mg/Kg	0.99	1	08/02/16 20:48	08/01/16	
Lead, Total	6010C	5.0 U	mg/Kg	5.0	1	08/02/16 20:48	08/01/16	
Mercury, Total	7471B	0.032 U	mg/Kg	0.032	1	08/05/16 14:17	08/05/16	
Potassium, Total	6010C	**990**	mg/Kg	200	1	08/02/16 20:48	08/01/16	
Selenium, Total	6010C	**2.30**	mg/Kg	0.99	1	08/02/16 20:48	08/01/16	
Silver, Total	6010C	0.99 U	mg/Kg	0.99	1	08/02/16 20:48	08/01/16	
Sodium, Total	6010C	**339**	mg/Kg	99	1	08/02/16 20:48	08/01/16	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 16:40
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-BACK	**Basis:**	As Received
Lab Code:	R1607928-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**3.62**	mg/Kg	0.99	1	08/02/16 20:52	08/01/16	
Barium, Total	6010C	**40.8**	mg/Kg	2.0	1	08/02/16 20:52	08/01/16	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	08/02/16 20:52	08/01/16	
Chromium, Total	6010C	**9.74**	mg/Kg	0.99	1	08/02/16 20:52	08/01/16	
Lead, Total	6010C	**8.6**	mg/Kg	5.0	1	08/02/16 20:52	08/01/16	
Mercury, Total	7471B	0.033 U	mg/Kg	0.033	1	08/05/16 14:19	08/05/16	
Potassium, Total	6010C	**1430**	mg/Kg	200	1	08/02/16 20:52	08/01/16	
Selenium, Total	6010C	**1.88**	mg/Kg	0.99	1	08/02/16 20:52	08/01/16	
Silver, Total	6010C	0.99 U	mg/Kg	0.99	1	08/02/16 20:52	08/01/16	
Sodium, Total	6010C	**569**	mg/Kg	99	1	08/02/16 20:52	08/01/16	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 15:05
Sample Matrix:	Water	**Date Received:**	07/29/16 09:05
Sample Name:	RINSE BLANK	**Basis:**	NA
Lab Code:	R1607928-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	08/02/16 19:00	08/01/16	
Barium, Total	6010C	20 U	ug/L	20	1	08/02/16 19:00	08/01/16	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	08/02/16 19:00	08/01/16	
Chromium, Total	6010C	10 U	ug/L	10	1	08/02/16 19:00	08/01/16	
Lead, Total	6010C	50 U	ug/L	50	1	08/02/16 19:00	08/01/16	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	08/09/16 11:11	08/05/16	
Potassium, Total	6010C	2000 U	ug/L	2000	1	08/02/16 19:00	08/01/16	
Selenium, Total	6010C	10 U	ug/L	10	1	08/02/16 19:00	08/01/16	
Silver, Total	6010C	10 U	ug/L	10	1	08/02/16 19:00	08/01/16	
Sodium, Total	6010C	1000 U	ug/L	1000	1	08/02/16 19:00	08/01/16	

General Chemistry

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Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 10:15
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-4	**Basis:**	As Received
Lab Code:	R1607928-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	5.0	U	mg/Kg	5.0	10	08/04/16 12:04	08/03/16	
Chloride	9056A	**71**		mg/Kg	30	1	08/11/16 05:57	08/10/16	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 05:57	08/10/16	
Nitrite as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 05:57	08/10/16	
pH	9045D	**12.00**		pH Units	-	1	08/03/16 18:50	NA	H
Sulfate	9056A	**1300**		mg/Kg	120	4	08/11/16 15:43	08/10/16	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 10:02
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-3	**Basis:**	As Received
Lab Code:	R1607928-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	5.0	U	mg/Kg	5.0	10	08/04/16 13:01	08/03/16	
Chloride	9056A	**41**		mg/Kg	30	1	08/11/16 06:11	08/10/16	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:11	08/10/16	
Nitrite as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:11	08/10/16	
pH	9045D	**11.98**		pH Units	-	1	08/03/16 18:50	NA	H
Sulfate	9056A	**955**		mg/Kg	30	1	08/11/16 06:11	08/10/16	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 09:43
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-2	**Basis:**	As Received
Lab Code:	R1607928-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	5.0	U	mg/Kg	5.0	10	08/04/16 13:20	08/03/16	
Chloride	9056A	**56**		mg/Kg	30	1	08/11/16 06:22	08/10/16	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:22	08/10/16	
Nitrite as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:22	08/10/16	
pH	9045D	**12.05**		pH Units	-	1	08/03/16 18:50	NA	H
Sulfate	9056A	**1210**		mg/Kg	120	4	08/11/16 15:57	08/10/16	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 09:08
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-1	**Basis:**	As Received
Lab Code:	R1607928-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	5.0	U	mg/Kg	5.0	10	08/04/16 13:39	08/03/16	
Chloride	9056A	**38**		mg/Kg	30	1	08/11/16 06:36	08/10/16	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:36	08/10/16	
Nitrite as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:36	08/10/16	
pH	9045D	**12.06**		pH Units	-	1	08/03/16 18:50	NA	H
Sulfate	9056A	**1130**		mg/Kg	120	4	08/11/16 16:52	08/10/16	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/27/16 16:40
Sample Matrix:	Solid	**Date Received:**	07/29/16 09:05
Sample Name:	CRT-BACK	**Basis:**	As Received
Lab Code:	R1607928-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	5.0	U	mg/Kg	5.0	10	08/04/16 13:58	08/03/16	
Chloride	9056A	**361**		mg/Kg	30	1	08/11/16 06:49	08/10/16	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:49	08/10/16	
Nitrite as Nitrogen	9056A	10	U	mg/Kg	10	1	08/11/16 06:49	08/10/16	
pH	9045D	**11.93**		pH Units	-	1	08/03/16 18:50	NA	H
Sulfate	9056A	**1100**		mg/Kg	120	4	08/11/16 17:07	08/10/16	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	07/28/16 15:05
Sample Matrix:	Water	**Date Received:**	07/29/16 09:05
Sample Name:	RINSE BLANK	**Basis:**	NA
Lab Code:	R1607928-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.050	U	mg/L	0.050	10	07/31/16 00:56	
Chloride	9056A	2.0	U	mg/L	2.0	10	08/02/16 16:49	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	08/02/16 16:49	*
Nitrite as Nitrogen	9056A	1.0	U	mg/L	1.0	10	08/02/16 16:49	*
pH	9040C	**6.68**		pH Units	-	1	08/02/16 15:46	H
Sulfate	9056A	2.0	U	mg/L	2.0	10	08/04/16 00:53	

QC Summary Forms

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Semivolatile Organic Compounds by GC

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Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001
Sample Matrix: Solid

SURROGATE RECOVERY SUMMARY
Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Extraction Method: Method

Sample Name	Lab Code	2-Hexanone 70 - 130
SRT-1	R1607928-011	94
SRT-2	R1607928-012	92
SRT-6	R1607928-013	98
SRT-5	R1607928-014	96
SRT-3	R1607928-015	97
SRT-4	R1607928-016	95
SRT-BACK	R1607928-017	94
Method Blank	RQ1609204-01	97
Lab Control Sample	RQ1609204-02	101
Duplicate Lab Control Sample	RQ1609204-03	106

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1609204-01	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol (Isopropyl Alcohol)	1000 U	1000	1	08/08/16 10:55	8/8/16	
n-Butyl Acetate	1000 U	1000	1	08/08/16 10:55	8/8/16	
2-Ethoxyethyl Acetate	1000 U	1000	1	08/08/16 10:55	8/8/16	
gamma-Butyrolactone (GBL)	5000 U	5000	1	08/08/16 10:55	8/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	97	70 - 130	08/08/16 10:55	

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Solid

Service Request: R1607928
Date Analyzed: 08/08/16

Duplicate Lab Control Sample Summary
Nonhalogenated Semi Volatile Organics by GC

Units:ug/Kg
Basis: As Received

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1609204-02			RQ1609204-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Propanol (Isopropyl Alcohol)	8015C	18400	20000	92	20200	20000	101	43-156	10	30
n-Butyl Acetate	8015C	16000	20000	80	19300	20000	96	56-102	18	30
2-Ethoxyethyl Acetate	8015C	18700	20000	94	21000	20000	105	80-120	12	30
gamma-Butyrolactone (GBL)	8015C	20200	20000	101	20800	20000	104	80-120	3	30

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Alcohols using GC/FID

Analysis Method: 8015C

		2-Hexanone
Sample Name	**Lab Code**	**85 - 121**
RINSE BLANK	R1607928-018	96
Method Blank	RQ1609286-01	93
Lab Control Sample	RQ1609286-02	100
Duplicate Lab Control Sample	RQ1609286-03	99

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	
Lab Code:	RQ1609286-01	**Basis:**	NA

Alcohols using GC/FID

Analysis Method: 8015C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Isopropyl Alcohol	1000 U	1000	1	08/04/16 13:37	
n-Butyl Acetate	1000 U	1000	1	08/04/16 13:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	93	85 - 121	08/04/16 13:37	

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Water

Service Request: R1607928
Date Analyzed: 08/04/16

Duplicate Lab Control Sample Summary
Alcohols using GC/FID

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1609286-02			RQ1609286-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Isopropyl Alcohol	8015C	9890	10000	99	10300	10000	103	81-116	4	30
n-Butyl Acetate	8015C	10100	10000	100	9750	10000	98	33-129	3	30

Client: ARCADIS U.S., Inc. **Service Request:** R1607928
Project: DCAP/B000130.0001
Sample Matrix: Wipe

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3550C

Sample Name	Lab Code	Decachlorobiphenyl 47 - 125	Tetrachloro-m-xylene 65 - 143
A30-HYD1B	R1607928-006	96	91
A30-HYD1S	R1607928-007	84	86
A30-HYD2B	R1607928-008	96	92
A30-HYD2S	R1607928-009	88	85
TRAVEL BLANK	R1607928-019	84	83
Method Blank	RQ1609054-01	103	97
Lab Control Sample	RQ1609054-02	101	95
Duplicate Lab Control Sample	RQ1609054-03	104	97

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Wipe	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/WIPE
Lab Code:	RQ1609054-01	**Basis:**	As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3550C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1221	4.0 U	4.0	1	08/03/16 16:57	8/3/16	
Aroclor 1232	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1242	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1248	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1254	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1260	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1262	2.0 U	2.0	1	08/03/16 16:57	8/3/16	
Aroclor 1268	2.0 U	2.0	1	08/03/16 16:57	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	103	47 - 125	08/03/16 16:57	
Tetrachloro-m-xylene	97	65 - 143	08/03/16 16:57	

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Wipe

Service Request: R1607928
Date Analyzed: 08/03/16

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units: ug/WIPE
Basis: As Received

			Lab Control Sample RQ1609054-02			Duplicate Lab Control Sample RQ1609054-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	6.27	5.00	125	6.54	5.00	131 *	70-130	4	30
Aroclor 1260	8082A	5.47	5.00	109	5.78	5.00	116	70-130	5	30

Metals

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1607928-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	08/02/16 17:59	08/01/16	
Barium, Total	6010C	20 U	ug/L	20	1	08/02/16 17:59	08/01/16	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	08/02/16 17:59	08/01/16	
Chromium, Total	6010C	10 U	ug/L	10	1	08/02/16 17:59	08/01/16	
Lead, Total	6010C	50 U	ug/L	50	1	08/02/16 17:59	08/01/16	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	08/09/16 10:45	08/05/16	
Potassium, Total	6010C	2000 U	ug/L	2000	1	08/02/16 17:59	08/01/16	
Selenium, Total	6010C	10 U	ug/L	10	1	08/02/16 17:59	08/01/16	
Silver, Total	6010C	10 U	ug/L	10	1	08/02/16 17:59	08/01/16	
Sodium, Total	6010C	1000 U	ug/L	1000	1	08/02/16 17:59	08/01/16	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	As Received
Lab Code:	R1607928-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	1.0	U	mg/Kg	1.0	1	08/02/16 19:31	08/01/16	
Barium, Total	6010C	2.0	U	mg/Kg	2.0	1	08/02/16 19:31	08/01/16	
Cadmium, Total	6010C	0.50	U	mg/Kg	0.50	1	08/02/16 19:31	08/01/16	
Chromium, Total	6010C	1.0	U	mg/Kg	1.0	1	08/02/16 19:31	08/01/16	
Lead, Total	6010C	5.0	U	mg/Kg	5.0	1	08/02/16 19:31	08/01/16	
Mercury, Total	7471B	0.033	U	mg/Kg	0.033	1	08/05/16 13:49	08/05/16	
Potassium, Total	6010C	200	U	mg/Kg	200	1	08/02/16 19:31	08/01/16	
Selenium, Total	6010C	1.0	U	mg/Kg	1.0	1	08/02/16 19:31	08/01/16	
Silver, Total	6010C	1.0	U	mg/Kg	1.0	1	08/02/16 19:31	08/01/16	
Sodium, Total	6010C	100	U	mg/Kg	100	1	08/02/16 19:31	08/01/16	

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Solid

Service Request: R1607928
Date Analyzed: 08/02/16 - 08/05/16

Lab Control Sample Summary
Inorganic Parameters

Units:mg/Kg
Basis: As Received

Lab Control Sample
R1607928-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	3.59	4.0	90	80-120
Barium, Total	6010C	194	200	97	80-120
Cadmium, Total	6010C	4.70	5.00	94	80-120
Chromium, Total	6010C	19.2	20.0	96	80-120
Lead, Total	6010C	47.4	50.0	95	80-120
Mercury, Total	7471B	0.145	0.167	87	80-120
Potassium, Total	6010C	1820	2000	91	80-120
Selenium, Total	6010C	85.7	101	85	80-120
Silver, Total	6010C	4.54	5.0	91	80-120
Sodium, Total	6010C	1850	2000	93	80-120

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Water

Service Request: R1607928
Date Analyzed: 08/02/16 - 08/09/16

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R1607928-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	36.9	40	92	80-120
Barium, Total	6010C	1920	2000	96	80-120
Cadmium, Total	6010C	47.4	50.0	95	80-120
Chromium, Total	6010C	188	200	94	80-120
Lead, Total	6010C	475	500	95	80-120
Mercury, Total	7470A	0.984	1.00	98	80-120
Potassium, Total	6010C	17900	20000	90	80-120
Selenium, Total	6010C	929	1010	92	80-120
Silver, Total	6010C	45.5	50	91	80-120
Sodium, Total	6010C	18200	20000	91	80-120

General Chemistry

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Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1607928-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/30/16 22:24	
Chloride	9056A	0.20 U	mg/L	0.20	1	08/02/16 16:18	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	08/02/16 16:18	
Nitrite as Nitrogen	9056A	0.10 U	mg/L	0.10	1	08/02/16 16:18	
Sulfate	9056A	0.20 U	mg/L	0.20	1	08/03/16 17:37	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1607928
Project:	DCAP/B000130.0001	**Date Collected:**	NA
Sample Matrix:	Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	As Received
Lab Code:	R1607928-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.96**		mg/Kg	0.50	1	08/04/16 10:47	08/03/16	
Chloride	9056A	30	U	mg/Kg	30	1	08/10/16 23:20	08/10/16	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	08/10/16 23:20	08/10/16	
Nitrite as Nitrogen	9056A	10	U	mg/Kg	10	1	08/10/16 23:20	08/10/16	
Sulfate	9056A	30	U	mg/Kg	30	1	08/10/16 23:20	08/10/16	

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Solid

Service Request: R1607928
Date Analyzed: 08/04/16 - 08/10/16

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: As Received

Lab Control Sample
R1607928-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	48.5	50.0	97	69-142
Chloride	9056A	198	200	99	80-120
Nitrate as Nitrogen	9056A	98.3	100	98	80-120
Nitrite as Nitrogen	9056A	90.8	100	91	80-120
Sulfate	9056A	192	200	96	80-120

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0001
Sample Matrix: Water

Service Request: R1607928
Date Analyzed: 07/31/16 - 08/03/16

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1607928-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.468	0.500	94	90-110
Chloride	9056A	2.04	2.00	102	80-120
Nitrate as Nitrogen	9056A	0.974	1.00	97	80-120
Nitrite as Nitrogen	9056A	1.02	1.00	102	80-120
Sulfate	9056A	1.94	2.00	97	80-120

September 13, 2016 Service Request No:R1608759

Raymond Kapp
ARCADIS U.S., Inc.
17-17 Route 208 North
2nd Floor
Fair Lawn, NJ 07410

Laboratory Results for: DCAP

Dear Raymond,

Enclosed are the results of the sample(s) submitted to our laboratory August 18, 2016
For your reference, these analyses have been assigned our service request number **R1608759.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0004
Sample Matrix: Solid

Service Request:R1608759
Date Received:8/18/16

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Two solid samples were received for analysis at ALS Environmental on 08/18/2016. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Semi-Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

Approved by _____ Date 9/13/2016

SAMPLE DETECTION SUMMARY

CLIENT ID: SRT-7	Lab ID: R1608759-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
2-Propanol	45000			10000	ug/Kg	8015C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. **Service Request:**R1608759
Project: DCAP/B000130.0004

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1608759-001	SRT-7	8/17/2016	1350
R1608759-002	SRT-8	8/17/2016	1410

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 14623 585-288-5380 FAX 585-288-8475

SR# _____

PAGE _____ OF _____

Project Name: DCAP Project Number: B000130.0004

Project Manager: RAY KAPP Company: Arcadis

Company/Address: 17-17 Rt 208N Phone: 845-346-6434

City, State, Zip: FAIRLAWN, NJ Email: raymond.kapp@arcadis.com

Sampler's Signature: _____

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: Non-halogenated SVOCs (1)					REMARKS
SRT-7	8/17/16	1350		Solid	1	X					
SRT-8	8/17/16	1410		Solid	1	X					

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 BD

__X__ Standard (15 BD)

__X__ Provide FAX Preliminary Results

Requested Report Date:_____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

_____ I. Routine Report: Results and Method Blank (Surrogate, as required)

_____ II. Results w/ QC (Dup., MS, MSD as req)

_____ III. Results (with QC and Calibration Summaries)

__X__ IV. ASP-B

_____ V. CLP

_____ EDD?: _____

Comments/Special Instructions:

(1) Limited to IPA, NBA, GBL, CAC

Preliminary data requested.

RELINQUISHED BY:

Signature: Raymond Kapp

Printed Name: RAY KAPP

Firm: ARCADIS

Date/Time: 8/17/16 1500

RECEIVED BY:

Signature: _____

Printed Name: Bryan Hanscomb

Firm: ALS

Date/Time: 8-17-16 3:00

RELINQUISHED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

RECEIVED BY:

Signature: _____

Printed Name: _____

Firm: ALS

Date/Time: 8/18/16 0920

R1608759 10
ARCADIS U.S., Inc.
DCAP

R1608759
ARCADIS U.S., Inc
DCAP
10

ARCADIS U/S

Cooler Receipt and Preservation Check Form

Project/Client G.E. Folder Number R1608759.

Cooler received on 8/15/16 by: (A)

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate? ALS/ROC	(CLIENT)
4	Circle: (**Wet Ice**) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: (Bulk) Encore 5035set NA	

8. Temperature Readings Date: 8/15/16 Time: 0933 ID (IR#5) IR#6 From: Temp Blank (Sample Bottle)

Observed Temp (°C)	5.1	2.5					
Correction Factor (°C)	–	–					
Corrected Temp (°C)	5.1°	2.5°					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Room by (A) on 8/15/16 at 0940
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 8-15-16 Time: 2:56 by: HZ

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
5. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 112919-1BNH

Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

PC Secondary Review: ECS

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ARCADIS U.S., Inc. **Service Request:** R1608759
Project: DCAP/B000130.0004

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8015C	Solid	2-Ethoxyethyl Acetate
8015C	Solid	2-Propanol
8015C	Solid	gamma-Butyrolactone (GBL)
8015C	Solid	n-Butyl Acetate

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1608759
Project:	DCAP/B000130.0004		

Sample Name:	SRT-7	**Date Collected:**	08/17/16
Lab Code:	R1608759-001	**Date Received:**	08/18/16
Sample Matrix:	Solid		

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

Sample Name:	SRT-8	**Date Collected:**	08/17/16
Lab Code:	R1608759-002	**Date Received:**	08/18/16
Sample Matrix:	Solid		

Analysis Method	Extracted/Digested By	Analyzed By
8015C	AMOSES	AMOSES

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1608759
Project:	DCAP/B000130.0004	**Date Collected:**	08/17/16 13:50
Sample Matrix:	Solid	**Date Received:**	08/18/16 09:20
Sample Name:	SRT-7	**Units:**	ug/Kg
Lab Code:	R1608759-001	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol	**45000**	10000	1	08/22/16 21:23	8/22/16	
n-Butyl Acetate	10000 U	10000	1	08/22/16 21:23	8/22/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/22/16 21:23	8/22/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/22/16 21:23	8/22/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	94	70 - 130	08/22/16 21:23	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1608759
Project:	DCAP/B000130.0004	**Date Collected:**	08/17/16 14:10
Sample Matrix:	Solid	**Date Received:**	08/18/16 09:20
Sample Name:	SRT-8	**Units:**	ug/Kg
Lab Code:	R1608759-002	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol	10000 U	10000	1	08/22/16 21:54	8/22/16	
n-Butyl Acetate	10000 U	10000	1	08/22/16 21:54	8/22/16	
2-Ethoxyethyl Acetate	10000 U	10000	1	08/22/16 21:54	8/22/16	
gamma-Butyrolactone (GBL)	50000 U	50000	1	08/22/16 21:54	8/22/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	94	70 - 130	08/22/16 21:54	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Client: ARCADIS U.S., Inc. **Service Request:** R1608759
Project: DCAP/B000130.0004
Sample Matrix: Solid

SURROGATE RECOVERY SUMMARY
Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Extraction Method: Method

Sample Name	Lab Code	2-Hexanone 70 - 130
SRT-7	R1608759-001	94
SRT-8	R1608759-002	94
Method Blank	RQ1609908-01	96
Lab Control Sample	RQ1609908-02	93
Duplicate Lab Control Sample	RQ1609908-03	96

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1608759
Project:	DCAP/B000130.0004	**Date Analyzed:**	08/22/16 19:51
Sample Matrix:	Solid	**Date Extracted:**	08/22/16

Method Blank Summary
Nonhalogenated Semi Volatile Organics by GC

Sample Name:	Method Blank	**Instrument ID:**	R-GC-60
Lab Code:	RQ1609908-01	**File ID:**	I:\ACQUDATA\6890J\Data\082216\AM769.D\
Analysis Method:	8015C	**Analysis Lot:**	511064
Prep Method:	Method	**Extraction Lot:**	269187

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1609908-02	I:\ACQUDATA\6890J\Data\082216\AM770.D\	08/22/16 20:22
Duplicate Lab Control Sample	RQ1609908-03	I:\ACQUDATA\6890J\Data\082216\AM771.D\	08/22/16 20:52
SRT-7	R1608759-001	I:\ACQUDATA\6890J\Data\082216\AM772.D\	08/22/16 21:23
SRT-8	R1608759-002	I:\ACQUDATA\6890J\Data\082216\AM773.D\	08/22/16 21:54

Client:	ARCADIS U.S., Inc.	**Service Request:**	R1608759
Project:	DCAP/B000130.0004	**Date Collected:**	NA
Sample Matrix:	Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1609908-01	**Basis:**	As Received

Nonhalogenated Semi Volatile Organics by GC

Analysis Method: 8015C
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2-Propanol	1000 U	1000	1	08/22/16 19:51	8/22/16	
n-Butyl Acetate	1000 U	1000	1	08/22/16 19:51	8/22/16	
2-Ethoxyethyl Acetate	1000 U	1000	1	08/22/16 19:51	8/22/16	
gamma-Butyrolactone (GBL)	5000 U	5000	1	08/22/16 19:51	8/22/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Hexanone	96	70 - 130	08/22/16 19:51	

Client: ARCADIS U.S., Inc.
Project: DCAP/B000130.0004
Sample Matrix: Solid

Service Request: R1608759
Date Analyzed: 08/22/16

Duplicate Lab Control Sample Summary
Nonhalogenated Semi Volatile Organics by GC

Units:ug/Kg
Basis: As Received

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1609908-02			RQ1609908-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Propanol	8015C	8240	10000	82	7920	10000	79	43-156	4	30
n-Butyl Acetate	8015C	8810	10000	88	8660	10000	87	56-102	2	30
2-Ethoxyethyl Acetate	8015C	8490	10000	85	8110	10000	81	80-120	5	30
gamma-Butyrolactone (GBL)	8015C	8120	10000	81	8420	10000	84	80-120	4	30