SHARPS
Compliance, Inc.

ENGINEERING REPORT FOR
REGULATED MEDICALWASTE TRANSFER STATION

893 Shepherd Avenue Brooklyn, NY 11208

in support of

SOLID WASTE PERMIT

No.6105-00889/00001 PURSUANT TO

6 NYCRR PARTS 360 & 365

submitted to

NYSDEC REGION 2

47-40 21st Street

Long Island City, NY 11101

on behalf of

SHARPS COMPLIANCE, INC.

893 Shepherd Ave, Brooklyn, NY 11208

by

MR. HONG SIMA, PH.D., P.E.
275 Barnhill Rd., Perkasie, PA 18944

NYS License No: 082602-1

(REVISED June 19, 2018)

PROFESSIONAL ENGINEERS CERTIFICATION STATEMENT

The undersigned Licensed Professional Engineer (P.E.) registered in the State of New York attests that this Engineering Report (the Report) has been prepared in conformance with 6NYCRR Parts 360 and 365.

The information and data provided in the Report and accompanying Drawings are accurate.

This certification is valid only to the extent that the facility owner or operator implements the Report in full compliance with all the requirements of 6NYCRR Parts 360 and 365.

All third-party materials including the Manufacturer's Literature provided in Appendix K and the BSD Technical Report for Completion of Field Work in Attachment 2 of the June 19, 2018 Response to NOIA of May 18, 2018 were reviewed but not verified or covered under this P.E. Certification.

Hong Sima, Ph.D., P.E.

New York State Registration No.: 082602-1

Expiration Date: 02/28/2019

TABLE OF CONTENTS

1. INTRODUCTION. 1
1.1 Facility Service Area (360.16(c)(4)(i)(a)) and (365-2.4(a)(2)) 1
1.2 Zoning (365-2.4 (h)) 2
1.3 Regulatory Issues (360.16(c)(4)(ii)(l)) 2
1.4 Permission (360.16(c)(1)(iii)) 2
1.5 Inspection 2
2. FACILITY DESCRIPTION 3
2.1 General Facility Activities (365-2.4(a)(8) and 365-2.5(c)) 4
2.2 Radiation Monitoring Plan (365-2.4(b)(1)(i)) 6
2.3 Water Quality Protection (360.19(b)(1-2) and 365-2.5(d)(2)) 6
2.4 Confinement of Solid Waste (360-19(f)) 6
2.5 Equipment Maintenance Facility and Equipment Shelter 6
2.6 Operating Personnel Facilities 6
2.7 Unloading and Loading Areas (365-2.5(e)(17), 360.19(c)(9) and 365-2.4(b)(1)(ii)) 7
2.8 Total Storage Volume 7
2.9 Facilities at or Near Sites Remedial Program (360.16(h)(1-2)) 8
2.10 Environmental Monitoring Services (360.20(a-b) and 360.19(k)(3)(ii)) 8
3. DESCRIPTION OF PROCESSED WASTE 10
3.1 Incoming RMW (365-2.5(d)) 10
3.2 Incoming and Transfer Records (365-2.5(d)(4)) 10
4. TRAFFIC FLOW (360.16(c)(4)(ii)(j) and 360.19(d)(2)) 13
4.1 Truck Queueing 13
4.2 Truck Staging 13
5. FACILITY OPERATIONS 14
5.1 Authorized Waste (360.16 (c)(4)(i)(b)) 14
5.2 Authorized Location(s) (360.16(c)(4)(i)(c)) 16
5.3 Operation and Maintenance Plan (360.16(c)(4)(ii) and 360.16(c)(4)(ii)(b)) 19
5.4 Process Flow Diagram (360.16(c)(4)(ii)(c)) 19
5.5 Monitoring, Maintenance and Inspection procedures (360.16(c)(4)(ii)(f)) 19
5.6 Unauthorized Waste (360.19(c)(4)) 19
5.7 Unauthorized Waste Record (360.19(c)(4)(i)(a-e)) 20
5.8 Special Waste Management (365-2.4(a)(3)) 21
5.9 Unloading (365-2.4 (b)(1)(ii) and 365-2.5(e)(3)) 22
5.10 Equipment and Personal Disinfection (365-2.4(b)(9)) 23
6. MACHINERY AND EQUIPMENT 27
6.1 Machinery and Equipment (360.16(c)(4)(ii)(d) and 365-2.4(b)(5)) 27
6.2 Calibration Intervals (360.16(c)(4)(ii)(i) and 360.19(d)(7)) 27
6.3 Maintenance and Operation (360.19(d)(1, 3, 5, 6, 8), 365-2.5(e)(16), 360.19(c)(5) and 360.19(e)) 28
6.4 Monitoring and Inspection (365-2.4(b)(6-8) and 360.16(c)(4)(ii)(f)) 29
7. CONTROL OF ACCESS 33
7.1 Waste Control Plan (360.19(c)(1)) 33
8. RECORDKEEPING 36
8.1 Recordkeeping and Reporting (360.19(k)) 36

TABLE OF CONTENTS (cont.)

8.2 Recordkeeping and Reporting Requirements (365-2.8) 36
8.3 Annual Report (360.19(k)(3)) 37
8.4 Reporting (365-2.8(b)) 37
8.5 Tracking Form (manifest) (365-2.4(a)(11)) 37
8.6 Record Retention Location (360.16(c)(4)(ii)(m)) 38
9. FACILITY START-UP AND SHUT-DOWN (365-2.4(b)(7)) 40
9.1 Description of Startup, scheduled and Unscheduled Shutdown (360.16(c)(4)(ii)(a)) 40
9.2 Handling RMW (During Shutdown) (365-2.4(b)(7)) 40
9.3 Shut-Down Notification (360.19(d)(9)) 41
10. HAZARD AND NUISANCE CONTROL 43
10.1 Leachate Minimization and Control Methods (360.16(c)(4)(ii)(e)) 43
10.2 Dust Control (360.19(g)) 43
10.3 Vector Control (360.19(h)) 43
10.4 Odor Control (360.19(i)) and (365-2.4(a)(7)) 43
10.5 Noise Levels and Noise Assessment (360.19(j)(1-6)) and 360.16(c)(3)(ii)) 43
10.6 Noise Monitoring (360.16(c)(4)(v)(a-d)) 44
11. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) (365-2.4(d)) 45
11.1 Emergency Response Plan (360.16(c)(4)(iv)) 45
11.2 Response to Emergencies (360.16(c)(4)(iv)(a)) 45
11.3 Emergency Response Methods (360.16(c)(4)(iv)(b) and 360.19(m)) 47
11.4 Handling of Spills (365-2.4(a)(9)) 50
11.5 Potential Operational Problems (365-2.4(d)) 51
11.6 Wash Water (365-2.4(e)) 55
12. TRAINING REQUIREMENTS 56
12.1 Training Plan (360.16(c)(4)(iii)) 56
12.2 Personnel Training (360.19(l)) 57
12.3 Waste Control Plan (360.19(c)(3)) 57
12.4 Training Objectives (365-2.4(c)) 57
13. CLOSURE PLAN 61
13.1 Closure Plan (360.16(c)(4)(vi)) 61
13.2 Closure Requirements (360.21) 61
13.3 Cleaning and Decontamination (365-2.4(i)) 61
14. FINANCIAL ASSURANCE (360.22) 63
14.1 Cost Estimates (360.22(b)) 63
14.2 Financial Assurance Requirements (360.22(c)) 63
14.3 Surety Bond (360.22(d)(2)) 64
14.4 Wording of Instruments (360.22(e)) 64

FIGURES

Figure 1	Site Location Map
Figure 1A	Site Location Map
Figure 1B	Site Location Map
Figure 1C	Site Location Map

DRAWINGS

C-01	Site Plan
C-02	Operations Plan
C-03	Queueing Site Plan
C-04	Truck Staging Site Plan

APPENDICES

Appendix A	Health and Safety Policy
Appendix B	Radiation Monitoring Plan
Appendix C	NYC Environmental Assessment Response (CEQR)
Appendix D	Waste Processing Flow Diagram
Appendix E	Application for Solid Waste Management Facility Permit Form Full
Appendix F	Environment Assessment Report and Responses
Appendix G	Permission to Inspect Property
Appendix H	Acceptable Regulated RMW Poster
Appendix I	Destination Facility Information
Appendix J	Financial Assurance Documentation
Appendix K	Manufacturer's Literature
Appendix L	Cross-Reference Table

NOMENCLATURES

CCI	Confidential Commercial Information
DOT	Department of Transportation
FDA	Food and Drug Administration
FEMA	Federal Emergency Management Agency
NFPA	National Fire Protection Agency
NYC	New York City
NYCDOS	New York City Department of Sanitation
NYCR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
OSHA	Occupational Safety & Health Administration
PPE	Personnel Protective Equipment
RMW	Regulated Medical Waste
TPD	Tons per Day
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

Sharps Compliance, Inc., hereinafter referred to as Sharps or the Company, proposes to own and operate a regulated medical waste (RMW) transfer facility located at 893 Shepherd Avenue in Brooklyn Borough, Kings County, NY (see Figure 1, Figure 1A and Figure 1B - Site Location Map). The proposed facility will receive, store and transfer approved RMW in accordance with NYSDEC regulations. RMW will be collected from healthcare facilities such as physicians, dentists, veterinary, retail pharmacies offering immunization services, home health care providers, and assisted living facilities. The RMW will be transported offsite for proper treatment and disposal.

The proposed permit boundary (Site) is the existing building at 893 Shepherd Avenue, which currently serves as a base of operations for Sharps' RMW collection business, as a transfer station where sealed RMW containers collected by Sharps' DEC permitted collection vehicles (box trucks) could be consolidated into larger vehicles (long-haul trucks) for shipment to out-of-state treatment facilities. All activities will be performed inside the permit boundary of the fully enclosed building, which is 22,000 square feet, with 20 foot ceilings and includes 2,000 square feet of office space. The building has one drive-in door and two loading docks, is equipped with a sprinkler system and is made of masonry walls with concrete floor. The site's New York City zoning designation is M1-1 Manufacturing, which allows transfer stations.

Sharps already collects RMW from local healthcare facilities, prepackaged in leakproof containers compliant with DOT, FDA and OSHA regulations. The proposed transfer station would make it possible for Sharps' collection vehicles to avoid travelling to a transfer station in the Bronx prior to garaging at 893 Shepherd at the end of each work day. The transfer station would generate, at most, 30 collection vehicles and 7 long-haul truck trips per day.

The transfer station operations will be designed for rapid transfer and minimum retention time. Sealed containers may be temporarily stored unrefrigerated for a time period not to exceed 72 hours. Containers left longer than 72 hours will be refrigerated (<7 °C or <45 °F), but no containers will remain at the transfer station more than 7 days from date of receipt.

Access to the facility is by an entrance off of Shepherd Avenue. Operating Hours are 6:00 AM to 7:00 PM, Monday through Friday. The site will be closed on holidays.

This report has been prepared following NYSDEC rules and regulations and technical guidance, as well as the input received during our July 27, 2016 pre-application meeting with Division of Environmental Permits Region 2, 6NYCRR Part 360 Solid Waste Management Facilities and 6NYCRR 365 Regulated Medical Waste and other Infectious Wastes. The NYSDEC review comments received on 8/17/2017 for a previous application of 6NYCRR Part 360 dated May 16, 2017 are also fully considered and adequately addressed in this Report. All references to equipment models are provided to support the permit application, and approval is requested for the equipment specified or an equivalent model.

1.1 Facility Service Area (360.16(c)(4)(i)(a) and 365-2.4(a)(2))

The containers accepted at the 893 Shepherd Avenue Transfer Station consists primarily of RMW from

small to mid-size generators such as Dental offices, Veterinarian Clinics, Medical Offices, Retail Clinics, Urgent Care Centers, Long Term Care Facilities, Home Infusion, etc. within 50-mile of the facility. RMW containers are collected using NYSDEC and DOT registered collection vehicles (Box Trucks).

1.2 Zoning (365-2.4 (h))

The site's New York City zoning designation is M1-1 Manufacturing, which allows transfer stations (see Figure 1C).

1.3 Regulatory Issues (360.16(c)(4)(ii)(l))

Operation of the 893 Shepherd Avenue transfer station is consistent with NYSDEC, New York City, DOT, OSHA and with the operating requirements that are identified in section 360.19 and 365 (please note that Parts 361, 362 and 363 do not apply to the proposed facility) and Subpart 374-2 to store and transfer RMW to approved treatment facility(s).

This facility will contribute towards the local RMW waste management plans and serves to improve the general environmental condition by reduction of RMW waste flow.

Based on an evaluation of the existing site conditions, and site operations, local zoning and environmental criteria, it is the opinion of the Professional Engineer that the operation will have no significant environmental impact to the planning units of which the facility is located and from which RMW waste is to be received, stored and transferred and will serve to meet the needs of the community.

The NYSDEC review comments received on 8/17/2017 for a previous application of 6NYCRR Part 360 dated May 16, 2017 are also fully considered and adequately addressed in this Report. The previously submitted application (submitted May 16, 2017) was prepared in accordance with the expired 6 NYCRR Part 360 regulations which no longer apply as of September 5, 2017. The revised Engineering Report and application materials have been prepared in accordance with the newly finalized 6 NYCRR Part 360 and 6 NYCRR Part 365 rulings adopted on September 5, 2017. Therefore, much of the content of the Engineering has been modified, rearranged, added to, and omitted from to satisfy the new requirements. Also, please note that this revised Engineering Report and associated application materials are considered a 'new' application.

1.4 Permission (360.16(c)(1)(iii))

See Application for Solid Waste Management Facility Permit (Appendix E). Permission to inspect the property is detailed in Appendix G.

1.5 Inspection

Various inspection requirements are addressed in Sections: 2.3; 5.2; 5.5; 6.3; 6.4; 7.1; 8.1; and 8.2, to satisfy the following requirements: 365-2.5(d)(2); 360.16(c)(4)(i)(d); 360.16(c)(4)(ii)(f); 360.19(e); 365-2.4(b)(6); 360.19(c)(1)(ii); 360.19(k)(1) and 360.19(k)(2); and 365-2.8(a), respectively.

2. FACILITY DESCRIPTION

The facility is located at 893 Shepherd Avenue, in the Industrial Park section of Brooklyn. The property is approximately 0.5 acres in size. This is shown on the site plans (see Drawing C-01 – Site Plan and Drawing C-02 – Operations Plan). Since the proposed operation will be in an existing building, located in an urban setting, soil erosion and ponding are not anticipated (360.19(d)(6)).

The 100-year tidal surge or 100-year flood plain is at elevation 7.44 ft BHD according to Federal Emergency Management Agency (FEMA) floodplain maps. All waste handling components of the facility's operation have been placed at elevation 7.5 ft BHD or higher. (360.16(c)(2)(iii)(a))

The zoning designation of the 893 Shepherd Avenue Site and the surrounding properties is M1-1 manufacturing use. The configuration of this facility is able to accommodate the permitted capacity of 48 tons per day (tpd) and not to exceed 12,500 tons per year (tpy) of RMW inside sealed containers (360.19(c)(11), 360.19(d)(4)) and will not be processed to reduce the size prior to transfer for treatment (365-2.5(e)(8)) and RMW will not be compacted or compressed. (365-2.5(e)(9))

The facility is designed for rapid transfer and minimum retention of sealed RMW containers. To minimize potential leakage, RMW containers will be stored and stacked upright no more than three (3) layers high or less than 8 feet above ground level (365-2.5(e)(5)). Inventory will be managed and arranged as shown in Drawing C-02 – Operations Plan (365-2.4(a)(10)). Containers received generally will be stored and transferred within three (3) days at ambient temperature from date of receipt (365-2.5(e)(14)). If a longer storage time is needed, containers will be refrigerated at < 45 °F but > 32 °F for up to seven (7) days from date of receipt (maximum detention time). In the unlikely event that waste is stored longer than seven (7) days, it will be stored at < 32 °F for up to thirty (30) days. Greater than seven (7) day storage periods are not anticipated. In the event that RMW has become putrescent, the RMW shall be removed from the facility as soon as possible (365-2.5(e)(13)). (365-2.4(b)(2) and 365-2.5(e)(12)(i-iii)). Appendix D provides a process flow diagram of how RMW is managed during operation. 365-2.4(b)(3)

Refrigerated transfer trailers will be provided at both Docks 1 and 2 (see Drawing C-02 – Operations Plan). Docks 1 and 2 are located within the proposed facility and secure from unauthorized access via rolling doors which remain locked, except when refrigerated transfer trailers are entering or exiting the docking bay(s). The refrigerated transfer trailers will be marked and labeled in accordance with applicable DOT regulations promulgated under 49 CFR §173.197. Refrigerated transfer trailer temperatures will remain at 45 °F and will be monitored by site personnel.

Receiving, storing and transferring RMW containers delivered by collection vehicles takes place within an enclosed 22,000 square foot (sq. ft.) structure with impermeable concrete floor. The fully enclosed facility consists of one (1) drive-in receiving door and two (2) docks for transfer vehicles. (365-2.5(e)(7))

The transfer station will operate five (5) days per week. Deliveries of waste are accepted only during operating hours (6:00 AM to 7:00 PM, Monday through Friday). An attendant will be on duty during posted operating hours. However, facility operations does not require permanent mechanical equipment (360.19(c)(12)). All RMW containers will be loaded into trailers and removed from the transfer station building within 72 hours of receipt. (360.16(c)(4)(ii)(h).

2.1 General Facility Activities (365-2.4(a)(8) and 365-2.5(c))

All activities at the facility will be performed in accordance with the facility plans and programs required by applicable local, State and Federal regulations and approved by the Department. These facility plans, and programs are to be maintained and available for reference and inspection at the facility.

Sharps will comply with the storage and transfer of RMW, in addition to complying with the applicable requirements set forth in Section 360.19 and 365-2.5 of this Part, and adhere to a Department-approved operation plan for the handling, storage and transfer of RMW.

Please note that a new or revised operation plan for the storage or transfer of RMW will be prepared whenever the maximum quantity, on a weight basis, of RMW stored or transferred per month by the facility exceeds 25 percent of the average quantity of RMW stored or transferred in the previous three months, or when changes are otherwise made in an existing operation. The new or revised operation plan will be submitted within 30 days of exceeding the 25 percent level. The operation plan will be sent to the regional solid waste engineer in the office of the department administering of Region 2, with a copy sent to the Director, Division of Solid Waste, New York State Department of Environmental Conservation, 625 Broadway, Albany, NY 12233-4010.

All RMW received in packaged and labeled containers will be managed in a manner to maintain the integrity of the containers, prevent the leakage or release of waste from the containers, and provides protection from water, rain and agents. The following matrix explains how healthcare facilities package RMW to comply with both containers by types of waste and marking.

Table 2.1 (RMW Packaging (365-2.4 (b)(2))

Container Type	Marking	Specification
Sharps Containers	Red color and International Biohazard Symbol	FDA Approved Class II. Independently tested for puncture, impact, and leakproof.
RMW Container	Red color and International Biohazard Symbol	Meets DOT requirements with red bag tested to ASTM Standards D1709 (Method A) impact resistance and D1922 Tear resistance.
Pathology Container	Red color and International Biohazard Symbol "PATHOLOGICAL WASTE" (Incinerate Only)	
Trace Chemotherapy Container	Red or yellow and International Biohazard Symbol. "Chemotherapeutic Waste" (Incinerate Only)	

Trace Chemotherapy (sharps)	Yellow color with Biohazard Symbol "Chemotherapeutic Waste" (Incinerate Only)	FDA Approved Class II, independently tested for puncture, impact, and leakproof.
Pharma Containers	White and Blue (Incinerate Only)	Meets DOT requirements for Rigid, leak resistant and Tight-fitting covers.

All RMW containers received must be accompanied by a tracking document for each shipment accepted at the facility. The facility will not accept waste from unauthorized off-site sources (e.g., self-transporters, generators not authorized by the permit, etc.), or waste which is not accompanied by a tracking document. The tracking form must be completed as required as specified in the instructions on the form. (365-2.5(a))

The maximum duration for storage or containment of RMW will be limited to seven (7) days, unless prior written approval is received from the department. RMW must not be allowed to become putrescent. In the event that RMW has become putrescent, the RMW shall be removed from the facility as soon as possible.

The facility is designed for rapid transfer and minimum retention of sealed RMW containers. RMW containers will be stacked no more than three (3) layers high. Inventory will be managed and arranged as shown in Drawing C-02 – Operations Plan (365-2.4(a)(10) and 365-2.4(b)(2)). Containers received generally will be stored and transferred within 72 hours at ambient temperature from date of receipt (365-2.5(e)(14)). If a longer storage time is needed, containers will be refrigerated at < 45 °F for up to seven (7) days from date of receipt (maximum detention time). In the event that RMW has become putrescent, the RMW shall be removed from the facility as soon as possible (365-2.5(e)(13)). (365-2.4(b)(2) and 365-2.5(e)(12)(i-iii))

RMW will be maintained in the packaging as received, unless otherwise approved by the department. If any packages are broken, leaking or are otherwise compromised, the RMW will be handled as outlined in the contingency plan Section 11. The RMW may only be surrendered to a transporter permitted to transport RMW under Part 364 of this Title. (365-2.5(c))

Please note that Sharps will not accept waste other than RMW.

Sharps will protect RMW from the elements, be ventilated to the outdoors, be only accessible to authorized persons and be marked with prominent warning signs on, or adjacent to, the exterior doors or gates. The warning signs will include the nationally recognized biohazard symbol and must be easily read from a distance of 25 feet. Outside storage areas containing RMW (e.g., dumpsters, sheds, tractor trailers or other storage areas) must be locked to prevent unauthorized access.)

Reusable containers for RMW must be thoroughly washed and decontaminated each time they are emptied, unless the surfaces of the containers have been completely protected from contamination by disposable liners, bags or other devices that are removed with the RMW. Please note that no reusable container washing activity is proposed at this facility. Containers will be disinfected at offsite facility.

2.2 Radiation Monitoring Plan (365-2.4(b)(1)(i))

The proposed transfer station radioactive waste detection plan includes procedures for detecting prohibited radioactive material; operation and maintenance documents for radiation detectors including investigation alarm set point settings and calibration methods; and response procedures to be implemented when radioactive waste is detected. See Appendix B.

2.3 Water Quality Protection (360.19(b)(1-2) and 365-2.5(d)(2))

Facility features, and operational procedures are designed to minimize the generation and prevent introduction of water or wastes (including leachate) into the surface or groundwaters of the State. Please note that there are no private or public wells on the adjoining properties and that the adjoining properties are served by local utility. Waste is unloaded, stored for a short duration and loaded onto long-haul vehicles within a building designed to prevent escape of refuse or water into the environment. In addition, containers are never opened and remain sealed from collection site through transfer to the treatment facility. Receiving and storage areas are swept/vacuumed regularly, any discovered leaks in vehicles or containers are immediate contained in RMW container, surfaces that have come in contact with a leak will be disinfected and any residual wash waters will either be absorbed with paper towels, cloths or equivalent material and placed inside RMW containers and managed as untreated medical waste.

All areas within the facility site will remain free of standing water. All drainage from washing and cleaning areas will be treated or disposed of in compliance with all applicable Federal and State regulations.

Residual wash waters will either be absorbed with paper towels, cloths or equivalent material or managed as untreated medical waste.

2.4 Confinement of Solid Waste (360-19(f))

All collection vehicles and transfer trailers will load and unload RMW containers within the fully enclosed facility. Consequently, no dust, blowing litter or odor will result. As discussed in the Contingency Plan, means will be available to handle accidental spills of refuse or unauthorized waste entering the facility. Interior facility and exterior paved areas are inspected daily.

2.5 Equipment Maintenance Facility and Equipment Shelter

All activities are performed inside an enclosed facility including **all maintenance activities.**

2.6 Operating Personnel Facilities

There are offices and personnel facilities located in the area adjacent to loading docks as (see Drawing C-01 – Site Plan and Drawing C-02 – Operations Plan). The locker room contains employee PPE, water and sanitary facilities for personnel.

Only those employees who are designated and trained on bloodborne pathogens, and offered vaccination against HBV, are permitted to handle RMW container or any other name attributed to the medical waste. Employees are provided free of charge PPE including, safety glasses, puncture proof gloves, boots and uniforms. ALL VISITORS will be directed away from the medical waste area, to the front office.

Electricity and gas are provided by local utility companies. Water is provided by the City of New York via the water mains that run along Berriman Street. Water is delivered to the transfer station via a 12-inch main. Locations of hose bibs within the facility are indicated on the site plans (see Drawing C-01 – Site Plan and Drawing C-02 – Operations Plan). The facility includes a climate controlled working area. Employees are provided necessary communication equipment (telephones).

2.7 Unloading and Loading Areas (365-2.5(e)(17), 360.19(c)(9) and 365-2.4(b)(1)(ii))

Received containers are unloaded from delivery vehicles on a concrete (finished) floor within the enclosed 22,000 sq. ft. structure and sorted for storage and subsequent transfer. The configuration of this facility is able to accommodate the permitted capacity of 48 tpd and not to exceed 12,500 tpy of RMW inside sealed containers. The unloading and loading areas are adequate in size and designed to facilitate efficient movement of waste to and from the collection vehicles and to facilitate the unobstructed movement of vehicles.

Compactors and trash chutes will not be used during unloading/loading activities (365-2.5(e)(9) and 365-2.5(e)(10)). Untreated RMW will not be dumped from vehicles or unloaded in a manner that causes containers to break or otherwise release RMW (365-2.5(e)(11)).

RMW will also be loaded on the concrete floor and placed into secured trailers that are labeled, licensed and approved for the transportation of RMW and non-hazardous pharmaceuticals.

All vehicles are equipped with a spill kit including absorbent materials and bleach to contain and cleanup any spill or leak that may occur during loading or unloading of containers. All RMW containers will be managed inside the facility on the concrete floor. A spill or leak inside the facility will be managed with onsite spill response equipment (absorbent materials). A spill or leak outside of the facility is not anticipated, however, each truck is equipped with the appropriate spill response materials in case of waste container failure.

2.8 Total Storage Volume

As shown in the Operations Plan (Drawing C-02), RMW maximum total storage in cubic yards (CY) for Waste Storage Areas 1 (450.24 CY) and 2 (392.28 CY) is estimated to be 842.52 CY. Maximum total storage in CY based on 1,072 containers and 934 containers for Waste Storage Areas 1 and 2, respectively, per layer for three (3) layers (6,018 total containers) with an individual RMW container volume of 0.14 CY (28 gallons, per container spec sheet).

Based on the transfer station's proposed daily and annual tonnages (48 tpd and 12,500 tpy, respectively), the required total volume is 806.40 CY. Required total storage in CY based on 1,920 containers per layer for three (3) layers (5,760 total containers) with an individual RMW container volume of 0.14 CY. This data has been incorporated into the revised Operations Plan (Drawing C-02). Based on the maximum and required total storage volumes, the proposed transfer station has sufficient storage to meet the proposed daily and annual tonnages.

Please note that the maximum and required numbers of RMW containers are based on the 28 gallon Solutions, Inc. RMW container (see Appendix K). Sharps may wish to use other container sizes and/or manufacturers in the future. Sharps does not wish to be limited to only using the above referenced container, but according to the daily and annual tonnages.

2.9 Facilities at or Near Sites Remedial Program (360.16(h)(1-2))

The Sharps facility is not located at or within 150 feet of the boundary of a site undergoing a remedial program. This was determined using the NYSDEC Environmental Site Remediation Database Search (Search Criteria: County = Kings; City = Brooklyn). Using the exported KML file and Google Earth measuring tool, the proposed facility has been determined to not be located within 150 feet of the boundary of a site undergoing a remedial program. Please note that the proposed facility would not interfere significantly with any potential, ongoing or completed remedial program(s).

The proposed operation will be located at an existing facility, which has not been identified as an inactive hazardous waste site classified as a P site by the department. This was determined using the NYSDEC Environmental Site Remediation Database Search (Search Criteria: County = Kings; City = Brooklyn; Site Class = P). Using the exported KML file and Google Earth, the proposed facility has been determined to not be located at a site classified as a P site by the department. No expansion is anticipated or proposed by this application.

2.10 Environmental Monitoring Services (360.20(a-b) and 360.19(k)(3)(ii))

Sharps will provide arrangements for environmental monitoring services, if the Department requires environmental monitoring services at the facility due to any of the following reasons anytime during the construction, operation, closure, and post-closure of the facility, and will make payment of aforementioned required services by the required date: (360.20(a) and 360.20(b))

- The compliance history or past practices of the owner or operator over the past five years reveals an inability or unwillingness to comply with environmental laws and regulations or has included a conviction of an environmental crime or other criminal environmental violation, execution of an order on consent or consent decree, or the issuance of a Commissioner's decision or judgment finding one or more violations; (360.20(a)(2))
- The past or current practices at the facility have resulted in conditions which pose a significant threat to public health or the environment, or indicate that significant adverse environmental or health impacts are likely to occur; or (360.20(a)(3))

- If the owner or operator of a facility required to make environmental monitoring payments to the department fails to submit payment by the required submission date, the owner or operator will be notified of their payment delinquency and will be directed to cease acceptance of any and all waste at the facility and commence closure of the facility in accordance with the requirements of this Part and any permit or order to which the owner or operator is subject. (360.20(a)(4))

If Sharps does not wish to cease operations including acceptance of any and all waste at the facility and subsequently commence closure of the facility (see Section 13) upon receiving the payment delinquency letter and written directive from the Department in the event that Sharps failed to submit payment by the required submission date, regarding environmental monitoring services, Sharps will submit an objection within 20 calendar days of the received directive. (360.20(b)(1))

3. DESCRIPTION OF PROCESSED WASTE

This section describes the waste to be processed at the facility and its design capacity, as well as means to quantify the material received at the facility. Sharps will accept at the facility, regulated medical waste from NYSDEC healthcare generators.

Only waste types specifically approved by NYSDEC will be accepted for storage and transfer. Unauthorized shipments, and managing unauthorized waste which is delivered to the facility are addressed under Section 5 of this report (also see Appendix I)..

3.1 Incoming RMW (365-2.5(d))

The facility will not accept RMW unless there is sufficient storage capacity (365-2.5(d)(1)). The transfer station is configured to accommodate the permitted capacity of 48 tons per day (tpd) and not to exceed 12,500 tons per year (tpy). The facility is designed for rapid transfer and minimum retention of sealed RMW containers, which will minimize the frequency of non-acceptance if daily/yearly acceptance rates have not been reached. The receiving/unloading, storing and loading/transferring areas of the 22,000 sq. ft. The structure will accommodate all facility operations and ensure efficient movement of RMW containers from collection vehicles to storage, facilitating unobstructed movement of facility personnel and transfer vehicles (360.19(c)(9)).

The following table describes the type of waste accepted, average and maximum acceptance rates and the applicable storage period and temperatures:

Table 3.1

RMW Containers by Type	Maximum Capacity (tpd)		Storage Period	
	Daily	Annual		
Sharps	48	12,500	Up to 72 hours from receipt.	At ambient temperature
RMW				
Pathological				
Trace Chemo			Up to 7 days from receipt.	At < 7° C (45° F)
Chemo-Sharps				
Pharmaceutical				

3.2 Incoming and Transfer Records (365-2.5(d)(4))

Collection Vehicles:
Collection vehicles enter the transfer station site via Berriman Street are and park inside the fully enclosed building as shown on the Site Plan (Drawing C-01). After these vehicles enter the site and they proceed to one of the scales for weighing. Once containers are unloaded and tracking document has been inspected, using daily Incoming Log 3.2, operator documents the date received, quantity, weight, tracking document number, city, state, and generator information. Vehicles will be directed to exit the building using the same entrance door.

3.2. Daily Incoming Log

Date: _____

Tracking Document NO.	Waste Type	City	State	Generator	Weight

Waste Type:
RMW: Regulated Medical Waste

Chemo: Chemotherapeutic Waste

Pathological Waste:

Pharma: Pharmaceutical Waste

Other: Explain

	Within State	Out of State	Total
Daily Total Waste Received			

Name of Person Completing Form: _____

Transfer Vehicles:
Long-hall transfer vehicles accessing the facility site for transport of RMW waste to proposed transfer facilities enter the site via the Shepherded Avenue and backup inside fully enclosed bay doors as shown on the Site Plan (Drawing C-01). After these vehicles enter the site, operators will load each trailer and complete RMW tracking document. Using the Daily Transfer Log Form 3.3, the operator documents the date transferred, quantity, weight, tracking document number, and authorized treatment facility information.

3.3 Daily Transfer Log Form			
			Date: _____
Tracking Document NO.	**RMW Type**	**Treatment facility Permit NO.**	**Weight**

Waste Type:
RMW: Regulated Medical Waste — Chemo: Chemotherapeutic Waste

Pathological Waste: — Pharma: Pharmaceutical Waste

Other: Explain

Daily Total Waste Transferred		

Name of Person Completing Form: _____

Vehicles will exit the same building using the same entrance and proceed directly to authorized treatment facility listed below (see Appendix I) (365-2.4(b)(10)):

Treatment Facility Table 3.4

Name of Facility	Address	Phone NO.	Permit NO.
Alpha Bio-Med Services, LLC	600 Industrial Road Nesquehoning, PA 18240	713-660-3508	PADEP 400696 for the storage and treatment of RMW and Chemo Wastes

4. TRAFFIC FLOW (360.16(c)(4)(ii)(j) and 360.19(d)(2))

The transfer station has been designed to accommodate the traffic flow in a safe and efficient manner. The transfer station would generate, at most, 30 collection vehicles and 7 long-haul truck trips per day requiring no queuing along the access road.

The access roads are paved with concrete capable of withstanding the expected volume and loads associated with transfer station operations. Access roads and pavement will be maintained in a safe and passable condition for loaded collection and transfer vehicles in all weather conditions. Road conditions are monitored by the Facility Manager or designee. (**See Housekeeping Log 6.4)**

4.1 Truck Queueing

As stated in Appendix C – CEQR, Sharps will only dispatch an empty long-haul vehicle to the facility when a trailer at the facility is full and ready for transfer to a disposal or treatment facility. This ensures an efficient trailer swap and prevents any queuing outside the facility. Similarly, Sharps will stagger the arrival of collection vehicles to prevent any backup of box trucks requiring unloading. In addition, in the event that collection vehicles arrive ahead of schedule, which would be unlikely based on the designated facility capacity and the planned frequency of incoming collection vehicles, the facility layout has sufficient space that up to five (5) box trucks can queue inside the facility rather than outside (see attached Drawing C-03 – Queuing Site Plan). Thus, box trucks will not queue outside the facility. Please note Sharps anticipates 15 outbound collection vehicles per hour between 6:00 AM and 8:00 AM and 10 inbound collection vehicles per hour between 2:00 PM and 5:00 PM, per Table 1 of the CEQR. To be conservative, Sharps is anticipating up to 15 collection vehicles to be unloaded per hour. The sufficient space and queued truck layout will allow for adequate unloading time for collection vehicles.

4.2 Truck Staging

Long-haul vehicles will be staged in Docking Bays 1 and 2 during operational and/or non-operational hours. Collection vehicle box trucks will either be staged within the facility or dispersed throughout the regional service area during operational and non-operational hours. Sharps currently operates 15 collection vehicles and employs 15 drivers. At maximum capacity, Sharps Transfer Station and collection operations will use 30 collection vehicles and employ 30 drivers. The facility layout allows for up to 9 collection vehicles to be staged at the facility during non-operational hours. If necessary, the remaining vehicles will not be staged on surrounding streets, but will be staged at an offsite location (i.e., truck yard). Please note that delivery truck personnel have the option to park delivery trucks offsite near their places of residence during non-operational hours to the extent permitted by local law, for convenience. Truck staging locations during non-operational hours are shown on the attached Drawing C-04 – Truck Staging Site Plan.

5. FACILITY OPERATIONS

5.1 Authorized Waste (360.16 (c)(4)(i)(b))

Only RMW waste will be accepted at the proposed facility for subsequent transfer during operating hours (6:00 AM to 7:00 PM, Monday through Friday). The following describes the type, source, and quantity. The description of the quantity specifies the expected average and maximum daily and annual amounts, on a weight and volume basis for the total amount of waste accepted;

RMW Type

RMW received in packaged and labeled containers will be managed in a manner to maintain the integrity of the containers, prevent the leakage or release of waste from the containers, and provides protection from water, rain and agents. Table 5.1 describes Acceptable RMW packaging method for each type:

Table 5.1

RMW	Packaging Specification
Sharps - Object that is capable of cutting or penetrating skin or packaging material and that is contaminated with a pathogen or may become contaminated with pathogen derived from medical treatment, diagnosis, immunization, or biomedical research of human and animal. Sharps include used medical waste such as needles, syringes, scalpels, broken glass, culture slides, culture dishes, broken capillary tubes, broken rigid plastic, and exposed ends of dental wires.	FDA Approved Class II red sharps container with International Biohazard Symbol (puncture, impact, and leakproof).
RMW – soft medical waste includes (other than sharps) used rubber gloves, swabs, gauze, tongue depressors, and other similar material.	Meets DOT requirements with red bag tested to ASTM Standards D1709 (Method A) impact resistance and D1922 Tear resistance. Red container with International Biohazard Symbol.
Pathological - waste includes animal carcasses, organs, tissues, body parts other than teeth, products of conception, and fluids removed by trauma or during surgery or autopsy or other medical procedure, and not fixed in formaldehyde.	Meets DOT requirements with red bag tested to ASTM Standards D1709 (Method A) impact resistance and D1922 Tear resistance. Red container with International Biohazard Symbol and "PATHOLOGICAL WASTE" (Incinerate Only).

Trace Chemotherapy- Vials or other containers that have less than 3% of the original contents by weight, after removing as much of the chemotherapy medicine as feasible. Waste includes: • Any empty chemotherapy containers or IV bags and tubing that did not hold either a P-listed chemotherapy medicine or a State-only hazardous waste. • All empty bags and tubing, needles, containers, gloves, and gowns with chemotherapy medicine remaining from use during chemotherapy infusions. • Any PPE or other materials used during chemotherapy infusions that are not visibly contaminated.	Meets DOT requirements with red bag tested to ASTM Standards D1709 (Method A) impact resistance and D1922 Tear resistance. Red or yellow container with International Biohazard Symbol and "Chemotherapeutic Waste" (Incinerate Only)
Trace Chemotherapy Sharps – sharps contaminated with chemotherapy drugs that have less than 3% of the original contents by weight, after removing as much of the chemotherapy medicine as feasible.	FDA Approved Class II yellow sharps container with International Biohazard Symbol (puncture, impact, and leakproof). "Chemotherapeutic Waste" (Incinerate Only).
Pharmaceutical - waste containing pharmaceuticals e.g. pharmaceuticals that are expired or no longer needed; items contaminated by or containing pharmaceuticals (bottles, boxes), which are not defined as Federal Hazardous Wastes.	Meets DOT requirements for Rigid, leak resistant and Tight-fitting covers. White and Blue (Incinerate Only).

RMW Source

RMW waste generated in diagnosis, treatment or immunization of humans, and animals, as defined in OSHA 29 CFR 1910.1030 and 6 NYCRR Part (360.2(b)(228)).

RMW Quantity

Table 5.2 describes the quantity expected average and maximum daily and annual amounts, on a weight and volume basis, and specifies for each individual RMW type and for the total amount of waste accepted:

Table 5.2

RMW Containers by Type	Maximum Capacity (tpd)		Storage Period	
	Daily	Annual		
Sharps	48	12,500	Up to 72 hours from receipt.	At ambient temperature
RMW				
Pathological				
Trace Chemo			Up to 7 days from receipt.	At < 7° C (45° F)
Chemo-Sharps				
Pharmaceutical				

5.2 Authorized Location(s) (360.16(c)(4)(i)(c))

Authorized locations where RMW waste are transported when they leave the proposed facility and what arrangements exist or will exist (contracts, etc.) that verify receiving entity(s) will accept the waste:

Treatment Facility (360.19(c)(8))
The treatment facility is permitted by the Commonwealth of the State of Pennsylvania Department of Environmental Protection for the processing, storage, treatment and transfer of REGULATED MEDICAL AND CHEMOTHERAPEUTIC WASTE according to Chapter 284 issued under section 105(a) of the Solid Waste Management Act:

Table 5.3 Treatment Facility

Name of Facility	Address	Phone NO.	Permit NO.
Alpha Bio-Med Services, LLC.	600 Industrial Road Nesquehoning, PA 18240	713-660-3508	PADEP 400696 for the storage and treatment of RMW and Chemo Wastes

Verification of Treatment Facility
Copy of Permit NO. 400696 with expiration date July 28, 2026 will be maintained on file and on site.

Arrangements
Arrangements have been made to transport RMW waste with Alpha Bio-Med Services, LLC. Copy of Permit NO. 400696 with expiration date July 28, 2026 will be maintained on file and on site.

Waste Control (365-2.4)(a))

The following describes the inspection, education, and contractual measures to ensure that the facility receives only authorized RMW waste, including a program to identify, control, segregate, quarantine, record, store, and dispose of unauthorized waste.

Note: the proposed facility does not intend to treat waste.

Inspection Process: (360.16(c)(4)(i)(d)), 365-2.4(a)(5)) and 365-2.4(a)(6))
When a collection vehicle reaches the incoming area, it is unloaded by the facility trained workers who will inspect the containers for unauthorized wastes. If such wastes are identified, the matter will be addressed with the responsible driver and the generator.

Only RMW waste which this facility is permitted to handle is accepted. Generators and transporters of RMW waste received at this facility are informed in writing of the acceptable material types by the facility. Signs are posted at the entrance to the transfer station stating, among other things, the types of RMW waste accepted. All incidents of unauthorized waste being inadvertently deposited at the 893 Shepherd Avenue Facility will be reported to NYSDEC.

As collection vehicles enter the facility, information such as vehicle type, company, and source of material is recorded using the DOT/NYSDEC tracking document which include transporter

registration number, generator name, address and phone number and number of containers. Receiving scale intended to confirm weight received and drive in door is equipped with radiation detectors that monitor incoming vehicles and containers for radioactive material. Visual evidence of unauthorized containers and vehicles will be cause for reject. Employees are trained to identify authorized and unauthorized wastes.

The container will be further examined as it is moved into the staging areas. In the event unauthorized delivery to the facility, such material will be adequately segregated and secured in a designated area within one hour of the discovery (see Drawing C-02 – Operation Plan).

The unauthorized waste other than radioactive will be quarantined and resolved with the generator. A logbook will be maintained by the Emergency Coordinator to record events, date, time, description, actions and disposition, etc. All incidents of receipt of unauthorized waste will be recorded in the respective daily log with such information included in the subsequent annual report to the Department.

Vehicles with detected radioactive waste are quarantined and will be handled in accordance with Sharps' Radiation Monitoring Plan (see Appendix B).

Education (365-2.4(a)(1))

Customer are provided Acceptable RMW Education Poster that identify RMW containers by type. The poster is color coded visual aid, easy to follow and can be posted on near the generator's RMW storage. (See Appendix H)

Table 5.4

Container Type	Marking	Specification
Sharps Containers	Red color and International Biohazard Symbol	FDA Approved Class II. Independently tested for puncture, impact, and leakproof.
RMW Container	Red color and International Biohazard Symbol	Meets DOT requirements with red bag tested to ASTM Standards D1709 (Method A) impact resistance and D1922 Tear resistance.
Pathology Container	Red color and International Biohazard Symbol "PATHOLOGICAL WASTE" (Incinerate Only)	
Trace Chemotherapy Container	Red or yellow and International Biohazard Symbol. "Chemotherapeutic Waste" (Incinerate Only)	
Trace Chemotherapy (sharps)	Yellow color with Biohazard Symbol "Chemotherapeutic Waste" (Incinerate Only)	FDA Approved Class II, independently tested for puncture, impact, and leakproof.
Pharma Containers	White and Blue (Incinerate Only)	Meets DOT requirements for Rigid, leak resistant and Tight-fitting covers.

Generator Contractual Measures (360.16(c)(4)(i)(d))

Each generator is required to complete DOT and NYSDEC RMW Tracking Document and to sign the certification requirements under Section 15 of the tracking document. Additionally, Sharps' contractual agreement will specify that each generator will follow the instructions of the tracking

document and comply with RMW storage, segregation and proper packaging as required by DOT and NYSDEC.

Measures to Ensure Only RMW Received (365-2.4(a)(4)

Although it is the generator's responsibility to accurately characterize its waste, receiving personnel are trained on how to review each container to ensure the waste is appropriate for management at the facility (360.16(c)(4)(i)(d)).

Upon entering the site, all RMW containers are inspected prior to unloading to ensure that the RMW was packaged appropriately and to identify any broken/leaking containers (365-2.5(d)(2)). Compromised container handling procedures are described in the Contingency Plan. Only RMW in sealed containers will be accepted at the facility. Visual evidence of unauthorized containers will be cause for rejecting a load. Employees are trained to identify authorized and unauthorized wastes (365-2.4(a)(6)). After inspection if no discrepancies are identified, containers are manually unloaded and placed and placed on scale. Once weight has been determined and recorded on the Daily Incoming Log (see Section 3.2 of engineering report). The container is placed on a pallet and moved using pallet jack to its designated storage area.

All RMW handling operations are conducted within enclosed structures that are protected from adverse weather conditions (e.g., wind and rain). The facility will monitor, conduct routine maintenance on and inspect all RMW and waste handling equipment to ensure proper management of RMW (360.16(c)(4)(ii)(f)).

RMW containers delivered to the facility are accompanied with a RMW waste manifest (Tracking Document) which documents the arrival date of the incoming load, generator identification information, package type and weight/volume, and the intended ultimate disposal facility's information (365-2.5(a) and 365-2.5(d)(4)). Upon arrival at the facility, each container manifest is reviewed to ensure the waste being received matches with the waste authorized at the facility. Documentation is checked for completeness and screening procedures are completed at the receiving area which includes the following: (365-2.4(a)(6))

Fixed Detector (365-2.5(b)) – A dock mounted radioactive monitoring equipment designed specifically for the purpose of detecting both man-made and natural radiation. The monitor will be capable of identifying unacceptable levels of radiation. Waste that triggers the alarm in the receiving area, will be redirected past the detector for confirmation that the alarm continues to be triggered. The waste is immediately segregated and placed in designated area and both generator and appropriate agencies are notified within one business day (see Appendix B for investigation alarm set point settings, calibration methods and further response instruction in the event of radioactive material identification) (365-2.5(b)(3)(ii)).

Waste that does not meet the description on the manifest or exceeds allowable limits for ignitability, and corrosiveness will be rejected at the receiving area and returned to the generator. In the event unauthorized wastes are delivered to the facility, such material will be adequately segregated and secured in a designated area within one hour of the discovery.

The unauthorized waste other than radioactive will be quarantined and resolved with the generator. A logbook will be maintained by the Emergency Coordinator to record events, date, time, description,

actions and disposition, etc. All incidents of receipt of unauthorized waste will be recorded in the respective daily log with such information included in the subsequent annual report to the Department.

Note: RMW contained in a bulk container (such as a roll-off) will not be accepted at the facility (365-2.5(d)(3)).

5.3 Operation and Maintenance Plan (360.16(c)(4)(ii) and 360.16(c)(4)(ii)(b))

Appendix D provides a process flow diagram detailing the types, size, capacity and detention times for RMW waste handled by the facility, storage of RMW, and structure (see also Drawing C-02).

Back-Up facility - Events that adversely affect operations in such way to cause an extended shutdown. Operations would be suspended until facility and or equipment have been repaired and activities are resumed. RMW waste would be diverted from facility to authorized destination facility (Appendix I). Waste stored at the facility would be transported to off-site authorized facility. (360.16(c)(4)(ii)(g))

Table 5.5 Treatment Facility

Name of Facility	Address	Phone NO.	Permit NO.
Alpha Bio-Med Services, LLC	600 Industrial Road Nesquehoning, PA 18240	713-660-3508	PADEP 400696 for the storage and treatment of RMW and Chemo Wastes

5.4 Process Flow Diagram (360.16(c)(4)(ii)(c))

Drawing C-02 and Appendix D indicate the average and maximum quantity of RMW handled on a weight and volume basis.

5.5 Monitoring, Maintenance and Inspection procedures (360.16(c)(4)(ii)(f))

Upon entering the site, all RMW is inspected prior to unloading to ensure that the RMW was packaged appropriately and to identify any broken/leaking containers. Compromised container handling procedures are described in the Contingency Plan. Only RMW in sealed containers will be accepted at the facility. Visual evidence of unauthorized containers will be cause for rejecting a load. Employees are trained to identify authorized and unauthorized wastes. After inspection if no discrepancies are identified, incoming waste is unloaded in the designated receiving area of the facility floor. All RMW handling operations are conducted within enclosed structures that are protected from adverse weather conditions (e.g., wind and rain). The facility will monitor, conduct routine maintenance on and inspect all RMW and waste handling equipment to ensure proper management of RMW.

5.6 Unauthorized Waste (360.19(c)(4))

The following wastes will not be accepted at the facility:

- Any waste or other material not falling within the Section 5.1 above;
- Pathological waste including fetal remains and human torsos;

- Radioactive, reactive, corrosive, ignitable or toxic wastes and any and all other hazardous wastes and substances as defined in any applicable federal, state, county or municipal laws, regulations and guidelines;
- Pharmaceutical materials (except as previously identified or the extent that the Provider gives prior written approval and the pharmaceuticals are packaged according to instructions provided);
- RCRA characteristic chemotherapy waste which has an alcohol base that makes the mixture ignitable, such as Vepesid; and
- Chlorabucil, Cyclophosphamide, Daunomycin, Melphalan, Mitomycin C, Streptozotocin, and Uracil Mustard (which are listed RCRA Hazardous Wastes and must be managed as such).
- Improperly classified and/ or improperly packaged, segregated, identified as unacceptable under any Provider waste acceptance protocol in effect during the term of this agreement,
- Medical devices.

A sign will be conspicuously posted at each entrance to the facility that identifies the types of waste that are acceptable for delivery to the facility and the types of wastes that are not accepted at the facility. This sign will be a minimum of 12 inches high by 18 inches wide and have lettering a minimum of one-inch height. The sign will read "CAUTION - REGULATED MEDICAL WASTE. VISITORS AND UNAUTHORIZED PERSSONNEL MUST REPORT TO THE OFFICE". The sign will also include the universal biohazard symbol.

When a collection vehicle reaches the receiving area, it is unloaded by the facility workers who will inspect the containers for unauthorized wastes. If such wastes are identified, the matter will be addressed with the responsible driver and the generator.

If unauthorized waste is delivered to the facility it is adequately segregated, secured, and contained in designated location (see Drawing C-02) in order to prevent leakage or contamination of the environment. The unauthorized waste will be removed within seven days after receipt, unless a different period is authorized by the department in the waste control plan. Transportation will be performed by a person authorized to transport the waste, and transported to a facility or location authorized to receive the waste type. (365-2.5(e)(6) and 365-2.4(a)(5))

5.7 Unauthorized Waste Record (360.19(c)(4)(i)(a-e))

In the event unauthorized waste is received, the facility will maintain a record of each incident identifying the type of waste and its final disposition. This information will also be reported in the facility annual report. The Unauthorized Waste Form includes date and time received, description of incident, contact information of transporter and generator, and description of response incident.

Unauthorized Waste Report (UWR) Form	
Facility Originating Report	**Date Received:** **Time Received:**
Name:	
Address:	

City:	State:	Zip:
Phone:		
Generator Information (Origin)		
Name:		
Address:		
City:	State:	Zip:
Phone:		
Driver Full Name:	Transporter Name:	
Vehicle Type:	Plate Number:	Manifest Number:
Incident Description (what occurred/containers and how many/response to incident)		
Provide detailed incident, actual monitor readings, including time each person notified:		
Notified Agency (s) (list names of phone numbers of agencies notified)		
Disposition:	**Date:**	
Hauling Company:		
Date Suspected Waste Hauled:	Amount:	
Phone Number:	Time:	
Review and Approval:		
Report Generated By:	Date	
Signature		
Plant Manager:	Date:	
Signature		

5.8 Special Waste Management (365-2.4(a)(3))

Reusable Containers (365-2.4(a)(3)(i) and 365-2.4(b)(i)(iii)(a-b))

The proposed transfer station will have adequate inventory for the purpose of repackaging leaked, damaged and otherwise compromised RMW containers. All RMW reusable containers are used for the storage and/or transport of regulated medical waste and designated for reuse once emptied are decontaminated after each use. The cleaning and disinfection of all reusable containers will be performed at a permitted medical waste facility:

Table 5.6 Treatment Facility			
Name of Facility	**Address**	**Phone NO.**	**Permit NO.**
Alpha Bio-Med Services, LLC	600 Industrial Road Nesquehoning, PA 18240	713-660-3508	PADEP 400696 for the storage and treatment of RMW and Chemo Wastes

The cleaning and disinfection process conforms to PADEP 25 Pa. Code Section 271.1. Chapter 284 and regulated medical waste and chemotherapy permit conditions:

1. RMW containers are mechanically emptied inside autoclave carts in a manner which does not expose employees to the risk of contamination or injury.
2. Containers are washed using a tunnel washing machine that exposes the containers to hot water of at least 82 °C (180 °F) for a minimum fifteen (15) seconds and rinse with chemical disinfectant. (Alpha decontamination disinfectant complies with PA Permit requirements and registered with the U.S. EPA as hospital disinfectants that are tuberculocidal, fungicidal, virucidal and effective against HIV-1)
3. Any RMW container is for any reason not capable of being rendered free of any visible signs of contamination, damaged or cannot be repaired. The container will be treated and disposed of as Regulated Medical Waste.

Reusable Medical Devices (365-2.4(a)(3)(ii))
Sharps does not accept reusable medical devices to be disposed of inside RM containers.

Sharps Containing Pharmaceuticals or other Chemicals (365-2.4(a)(3)(iii-v))
The proposed facility will accept sharps containing trace-chemo. Please see Appendix H for detailed Acceptable Regulated RMW waste. Sharps will not accept wastes from Biosafety level 3 or 4 laboratories or waste containing select agents or toxins of biological origin listed in 9 CFR Part 121 and 42 CFR Part 73 or other infectious wastes.

5.9 Unloading (365-2.4 (b)(1)(ii) and 365-2.5(e)(3))

The facility keeps a continuous computer log of volume of daily and monthly wastes received. Each incoming container is weighed using calibrated scales and added to the daily total. To ensure compliance with the permitted volume limits, management will closely monitor daily weights in regard to receiving and shipping records. Scale is located at the facility receiving area.

- Only those employees who are designated and trained on bloodborne pathogens, and offered vaccination against HBV, are permitted to handle any RMW, container or pail labeled "Regulated Medical Waste" or any other name attributed to the medical waste. See Sharps' Health and Safety Policy (see Appendix A) for more details regarding vaccination process.
- PPE including, safety glasses, gloves and boots shall be worn while in the receiving area.
- Vehicle unloading will be performed in a manner that does not cause containers to break or otherwise release RMW using forklifts, pallet jacks and pallets (365-2.5(e)(11)).
- RMW that has been unloaded and directed to the storage area will be stored in an upright, stable and controlled manner that minimizes the potential for leakage. The top of the stacked

containers will not be more than eight feet above the level of the floor to reduce container sway to prevent stack collapse and container breakage. This will ensure that containers will not be compromised by the manner of storage. (365-2.5(e)(5))

- RMW will be managed in a manner (maintain container integrity, container remains closed, etc.) which minimizes potential occupational exposures and releases to the environment. Proper management of RMW and routine cleaning and disinfection will reduce the need for non-routine decontamination activities. (365-2.5(e)(4))

ALL VISITORS will be directed away from the medical waste area, to the frontoffice

5.10 Equipment and Personal Disinfection (365-2.4(b)(9) and 365-2.4(b)(1)(iii)(a-b))

Equipment

The facility shall keep a spill containment and cleanup kit in or near any storage area, loading and unloading area, or where RMW containers are handled and stored. The location of the kits provides for rapid and efficient cleanup of spills anywhere within these areas. The kit will consist of at least the following items:

Table 5.7	
1.	Absorbent material for spilled liquids. The absorbent material shall have a rated capacity of one (1) gallon of liquid for every cubic foot of regulated medical waste that is normally managed in the area for which the kit is provided or ten (10) gallons, whichever is less.
2.	One (1) gallon of disinfectant in a sprayer capable of dispersing its charge in a mist and in a stream. The disinfectant shall be of hospital grade and be effective against mycobacteria.
3.	Fifty (50) red plastic infectious waste bags accompanied by sealing tape (or devices), and appropriate labels. These bags shall be large enough to over-pack any box or other container normally used for regulated medical waste handling by the facility.
4.	Two (2) sets of overalls, gloves, boots, caps and protective eye covering, all of which shall be disposable and be impermeable to liquids. Overalls, boots and caps shall be oversized or fitted to medical wastes workers and be made of a moisture resistant or moisture proof material. Gloves for handling regulated medical waste where sharps are not present shall be durable and of moisture resistant or moisture proof material. Gloves for handling sharps shall be puncture resistant or puncture proof in addition to liquid resistant. Boots shall be of durable moisture resistant or moisture proof material which will not tear under the stress of walking. Minimum protective breathing devices shall be surgical masks. Tape for sealing wrists and ankles shall also be provided in the kit.
5.	A first aid kit (unless emergency medical care is available on the premises), fire extinguisher, and other appropriate safety equipment.
The disinfectants used in cleaning up a spill shall be registered with the U.S. EPA as hospital disinfectants that are also tuberculocidal, fungicidal, virucidal and effective against HIV-1. Also, approved as a disinfectant is one-to-ten (1:10) dilution of five percent (5%) sodium hypochlorite solution. Cleaning and disinfecting equipment will be made available to ensure that the cleaning tasks are carried out safely and effectively.	

PPE Disinfection

The facility will provide easily accessible PPE to all personnel in appropriate sizes. Clean uniforms are located in locker rooms; new gloves and masks are maintained and available from supervisors; gloves (puncture resistance), boots, safety glasses, aprons, and ear plugs are located in PPE room. Employees are required to comply with PPE requirements for each job function.

Employees with allergies are provided gloves or other PPE that are hypoallergenic or similar alternatives. Examples of such PPE would be non-latex gloves and shields

The facility cleans, launders, and/or disposes of PPE provided to employees. A uniform service is provided for reusable uniform laundering. All PPE that comes in contact with bloodborne pathogens, is handled and disposed of as RMW.

Decontaminating Person

If an employee should become exposed to blood or other potentially infectious materials (OPIM) through either:

1) Needle stick or other puncture wound, splash, splatter or touch to the eyes, nose, or mouth and or exposure to non-intact skin, the employee will:

Table 5.8	
A	Wash the exposed area immediately.
B	Identify the source of the contamination if known.
C	Report the incident to Plant Manager immediately and if Plant Manager or designee is unavailable, proceed immediately to the designated healthcare professional.
An "Exposure Incident Report" will be filed in order to:	
1.	Provide the appropriate information for the healthcare professional who will attend to the exposed employee.
2.	Discover how the incident happened in order to determine need for policy and procedural changes.
3.	File and maintain the report in the employee's confidential medical record for 30 years plus the length of his/her employment.
Following the report of an exposure incident, this facility shall make available to all exposed employees a post exposure confidential medical evaluation and follow up:	
1	At no cost to the employee at a reasonable time and place.
2	By or under the supervision of a licensed physician or by or under the supervision of another licensed healthcare professional.
3	As according to recommendations of the U.S. Public Health Services.
4	With all laboratory tests conducted by an accredited laboratory at no cost to the employee.
This evaluation and follow up will include:	
1.	Documentation of the route of exposure.
2.	Circumstances under which the exposure incident occurred.
3.	Identification and documentation of the source individual (unless infeasible or prohibited by state or local law).

4.	Testing of source individual's blood as soon as feasible and after consent is obtained to determine if they have HBV, HCV or HIV. (If consent is not obtained, this facility must establish that legally required consent cannot be obtained. If law does not require the source individual's consent, the source individual's blood, if available, shall be tested and the results documented.) If the source individual is known to be infected with HIV, HCV or HBV, re-testing need not be repeated.
5.	Results of the source individual's testing shall be made available to the exposed employee. That employee must be informed of the laws concerning infectious status and identity of the source.
6	Collection and testing of employee's blood for HBV, HCV and HIV after consent is obtained. (If employee consents to baseline blood testing, but not HIV testing, blood is held for 90 days and tested if employee elects within that time.)
6	Post exposure prophylaxis, when medically indicated, as recommended by the U.S. Public Health Service (CDC).
7	Counseling and evaluation of reported illnesses.
Information provided to the Healthcare Professional (HCP) to whom the employee will be sent by this facility is:	
1.	A copy of the OSHA standard.
2.	A description of the exposed employee's duties as they relate to the exposure incident and documentation of how the exposure occurred and route of entry. (e.g., needle stick to finger; splash of blood in eye)
3.	Source individual's blood test results, if known.
4.	Relevant employee medical records including vaccination status.
Information Provided in Writing to this Facility by the Healthcare Professional:	
A. Copy of the evaluating healthcare professional's written opinion within 15 days. This written opinion shall be limited to whether the:	
1.	Hepatitis B vaccination was indicated and given.
2.	Employee has been informed of the results of the evaluation
3.	Employee has been told about any medical conditions resulting from the exposure which require further evaluation or treatment.
B. All other findings or diagnosis shall remain confidential and shall not be included in the report.	
Information Provided to the Employee by this Facility:	
Copy of the evaluating healthcare professional's written opinion within 15 days.	

Decontamination Vehicles

All RMW being transported to and from the facility will be containerized and braced to reduce the risk of RMW and/or leachate spillage and reduce the need for unplanned (non-routine) decontamination activities (360.19(c)(5) and 365-2.5(e)(3)). Vehicles transporting RMW containers to the facility are cleaned each time they are emptied and must meet all requirements of the Department of Transportation:

1. Transport infectious waste using equipment that will contain all waste so that there are no releases of infectious waste to the environment and follow USDOT requirements.
2. Provide training for drivers in waste handling and spill cleanup methods.
3. Label vehicles by DOT standards.

4. Have spill kits readily available.
5. Clean all surfaces of transport vehicles when spills have occurred.
6. Wash water from decontamination procedures will be managed using sorbent materials.

In the event of a medical waste spill, the vehicle is decontamination using the following method:

- Rinsing with or cleaning the vehicle in a chemical disinfectant; or
- Rinsing with or cleaning in a one-to-ten (1:10) dilution of five percent (5%) sodium hypochlorite solution.
- Any chemical disinfectant used for decontamination shall be registered with the U.S. EPA as hospital disinfectants that are tuberculocidal, fungicidal, viricidal and effective against HIV-1.
- Residual wash waters will either be absorbed with paper towels, cloths or equivalent material or managed as untreated medical waste.

6 MACHINERY AND EQUIPMENT

6.1 Machinery and Equipment (360.16(c)(4)(ii)(d) and 365-2.4(b)(5))

6.1.1 The table below provides a description of the major types of equipment that is used to support the operation of the facility. See Appendix K for manufacturer's literature.

Table 6.1 Equipment List

Item	QTY	Manufacturer	Model No.	Function
Radiation SURVEY METER	1	LUDLUM or equivalent	MODEL 192	Survey Meter Monitor Incoming Waste (RMW Containers): Portable gamma survey instrument with adjustable audio and visual alarms.
RADIATION DETECTOR	1	LUDLUM	MODEL 375P	Monitor Incoming Waste (RMW Containers)
RADIATION DETECTOR	1	LUDLUM	MODEL 375P	Monitor Out-going Waste (RMW Containers)
Floor Scale	1	Adam Equipment	MODEL AFK 165A	RMW Container Incoming Weighing
Floor Scale	1	Adam Equipment	MODEL AFK 165A	RMW Container Out-going Weighing
Forklift	1	Toyota	Sitdown Rider7FBCU	Lifting and loading RMW containers
RMW Container	Varies	Solutions, Inc.	MODEL A2128	Containers for RMW
Note: The equipment listed in this table may be replaced with equal equipment should the listed equipment require maintenance, the equipment breaks down, etc.				

6.1.2 Facility Design capacity:

Table 6.2 Capacity (365-2.4(b)(2)) and (360.19(d)(4))

RMW Weight	Tons Max	Pounds Max
Daily	48	96,000
72 Hour	144	288,000
Average RMW Container Weight	50 lbs.	
Average RMW Container Floor Area	2.56 sq. ft.	
Number of RMW Containers/layer	1,920	
Total Number of Containers (3 layers)	5,760	
Total Floor Space Req. (containers stacked 3 high)	**4,915 Seq. Ft.**	

6.2 Calibration Intervals (360.16(c)(4)(ii)(i) and 360.19(d)(7))

The table below provides calibration list of all equipment that are used to support the operation of the facility.

Table 6.3 Calibration List

Item	QTY	Manufacturer	Model No.	Calibration Intervals
Radiation SURVEY Meter	1	LUDLUM or equivalent	MODEL 192	Annually
RADIATION DETECTOR	2	LUDLUM	MODEL 375P	Annually

Floor Scale	2	Adam Equipment	MODEL AFK 165A	Annually
Note: calibration is performed by the original manufacturer or an independent reputable calibration facility.				

6.3 Maintenance and Operation (360.19(d)(1, 3, 5, 6, 8), 365-2.5(e)(16), 360.19(c)(5) and 360.19(e))

Adequate equipment and spare parts are maintained at the facility at all times for proper functioning of the transfer station operations. A list of equipment and machinery to be utilized is provided above. Spare parts are maintained, and equipment are periodically cleaned and serviced as required by the manufacturer's specifications. Routine preventative maintenance and inspections are conducted on a scheduled basis.

Sharps, as the facility operator, engages in a program of monitoring employees and customers for compliance with the regulations pertaining to the facility. The Facility Manager monitors and inspects the facility for malfunctions, deteriorations, and possible environmental discharges. Areas that are inspected weekly include, but are not limited to: waste handling areas; mobile equipment; air ventilation systems; unauthorized waste control program and containers; scales; radiation equipment; computer systems and recordkeeping; dust, vector and odor control; site drainage; access roads; structural components; readiness of firefighting equipment; and the integrity of the security system, including fences and gates.

Problems are promptly addressed, and remedial action is taken when necessary. A logbook is maintained for inspections, identifying the specific equipment and structures inspected, and recording observations as well as the date and nature of any remedial actions or repairs implemented.

The facility is equipped with a video recorder and camera system to monitor incoming and outgoing traffic and events. Signs are also located at the driveway to the facility, directing drivers to obey traffic control personnel and to proceed slowly. In addition, safety signs are posted at the loading dock area indicating that truck drivers must chock their wheels prior to loading.

All floors and working areas are adequately cleaned and maintained, residual waters from spills will either be absorbed with paper towels, cloths or equivalent material or managed as untreated medical waste and prevented from entering the drainage system.

The facility operations are performed inside fully enclosed facility with concrete floor requiring no grading preventing tracking of soil, waste, leachate and other materials from the facility onto off-site roadways. (365-2.5(e)(16))

All vehicles are DOT registered and comply with DOT vehicle requirements for the collection and transportation of RMW. RMW is contained inside sealed RMW containers and placed inside leak proof vehicles. (360.19(c)(5) and 360.19(d)(8))

6.4 Monitoring and Inspection (365-2.4(b)(6-8) and 360.16(c)(4)(ii)(f))

Routine inspections are conducted, and maintenance activities are performed to identify and correct equipment malfunctions or deteriorations, operator errors, and other malfunctions and in compliance with applicable regulatory requirements.

On a monthly basis, an in-depth inspection will be performed of equipment used to process RMW waste and, facility condition and housekeeping. The following Checklist will be used to document the inspection activity Table 6.4:

Table 6.4 Monthly Inspection Checklist

Date: _____		**Inspected By:** _____	
NO.	**Description**	**Condition as Found**	**Corrective Action**
1.	Storage Location and Condition		
2.	Shelf Life (present age, expected replacement)		
3.	Operational Status and Condition		
4.	Equipment Status and Condition		
5.	Eye Wash Station		
6.	Actual Use/Testing (last test date and frequency of testing		
7.	Facility condition		
Sign: _____		**Date:** _____	

During periods of routine maintenance, emergencies, equipment breakdown, or facility startup and shutdown. Arrangements will be made to divert all incoming RMW to alternate authorized transfer facility or directly to treatment facility.

Storage areas are maintained in a neat and orderly fashion. Brooms are used to keep floors free of debris. Trash is removed immediately by dry measures. Waste spills are cleaned following Department guidance. Walkways and entryways are kept free from obstructions. The site is policed for litter. The following Log documents the daily and weekly housekeeping activities Table 6.5

Table 6.5 Housekeeping Log

Frequency	**Area**	**Description**
Daily	Loading / Receiving and Storage	Working area, entrance areas, floors and perimeter for loose trash. Clean up as necessary.
	Forklift	Inspect and maintain per OEM
	Facility Access	Facility access (entryways) for damage, erosion, or excessive accumulation of mud. Maintain and/or repair, as needed. If excessive accumulation of mud in entryways, it will be removed at least weekly. (Snow removal as needed)
	Facility Perimeter	Inspect the perimeter of the facility to assess the operational performance for odor control;
	Roads	Facility perimeter will be inspected for loose trash and cleaned up as necessary.

Weekly	Facility Signs	Inspect facility signs for damage, general location, and accuracy of posted information.

Scheduled downtime maintenance each year will only involves the calibration of the radiation monitors and weight scales. This function will be performed by the OEM or an independent contractor and performed at the site (transfer station). Sharps will schedule the annual calibration one month ahead of due calibration date.

Driver's Daily Vehicle Inspection Report

Date:_____ Time:_____ AM PM
Vehicle #:_____ Speedometer Reading:_____

Check any defective item and give details under "Remarks".

□ Air Compressor	□ Horn	□ Safety Equipment
□ Air Lines	□ Lights	□ Fire Extinguisher (if applicable)
□ Battery	□ Head	□ Reflective Triangles (if applicable)
□ Body	□ Tail	□ Spare Bulbs
□ Brake Accessories	□ Stop	□ Spare Fuses
□ Brakes	□ Dash	□ Back-up Alarm (if applicable)
□ Clutch	□ Turn Indicators	□ Seatbelts
□ Defroster	□ Emergency Flasher	□ Springs
□ Drive Line	□ Mirrors	□ Starter
□ Engine	□ Exhaust System	□ Steering
□ Fifth Wheel	□ Oil Pressure	□ Tachograph
□ Front Axle	□ Placards	□ Wheels and Lugnuts
□ Fuel Tanks	□ Radiator	□ Transmission
□ Generator	□ Rear End	□ Windows
□ Heater	□ Reflectors	□ Windshield Wipers
□ Spill Kit	□ Cleanness	□ Other_____

(This section to be filled out by truck/trailer (long-haul vehicles) drivers only)

□ Brake Connections	□ Hitch	□ Roof
□ Brakes	□ Landing Gear	□ Springs
□ Coupling Chains	□ Lights—All	□ Tarpaulin
□ Coupling (King) Pin	□ Placards	□ Tires
□ Doors	□ Reflectors	□ Wheels and Lugnuts

□ Other_____
Remarks:_____
_____
_____

Condition of above vehicle(s) is/are satisfactory ‰ YES ‰ NO

Driver's Signature: _____

Above defects corrected □ YES □ NO
Above defects need not be corrected for safe operation of vehicle □ YES □ NO

Mechanic's Signature: _____ Date: _____

Driver Reviewing Repairs, Signature: _____Date: _____

The following vehicle maintenance schedule will be performed by authorized dealer.

Vehicle Maintenance Schedule

Intervals	Inspection
Service for First 4,000 MILES	• **IN CAB INSPECTION***
	Download and print Vehicle Health Report
	- Scan all control modules for diagnostic codes
	• **EXTERIOR INSPECTION***
	• **UNDER CAB AND BODY INSPECTION***
	Check engine oil level and top off all fluids
	Check engine operation and exhaust system
	Check tire condition
	Adjust tire pressure, check valves and caps
	Torque rear body mounts
Service Every 10,000 Miles	• **IN CAB INSPECTION***
	Download and print Vehicle Health Report
	- Scan all control modules for diagnostic codes
	• **EXTERIOR INSPECTION***
	• **UNDER CAB AND BODY INSPECTION***
	• **LIFT VEHICLE***
	• **UNDER CHASSIS***
	Drain engine oil, remove and replace oil filter
	Replace fuel filter(s)
	Add engine oil and top off all fluids
	Check air filter restriction gauge
	Every 30,000 miles replace air filter element
	Lube king pins, u-joints, sleeve, center bearing(s)
	Check leaf spring and rear body u-bolt torques
	Check exhaust, DPF/SCR system
	Inspect brake system
	Rotate tires, torque studs/nuts (360 ft-lb)

Services Every 50,000 Miles	• **IN CAB INSPECTION*** **Download and print Vehicle Health Report** - Scan all control modules for diagnostic codes
	• **EXTERIOR INSPECTION***
	• **UNDER CAB AND BODY INSPECTION***
	• **LIFT VEHICLE***
	• **UNDER CHASSIS***
	• **INCLUES "A" SERVICE PROCEDURES, PLUS:** Replace automatic transmission fluid Replace differential fluid Clean inside and outside A/C Filters Replace wiper blades Drain and replace coolant Adjust valves, replace EGR gaskets Check fan blade, fan clutch and shroud seal Pack wheel bearings and replace seals

7 CONTROL OF ACCESS

7.1 Waste Control Plan (360.19(c)(1))

The following measures are taken to ensure that only authorized waste is accepted at the facility:

7.1.1 Hours of Operations and Types of Waste Accepted (360.19(c)(1)(i))

The main entrance is open for collection vehicle access during normal operating hours, Monday through Friday 6:00 AM to 7:00 PM. A sign will be conspicuously posted at each entrance to the facility that identifies the types of waste that are acceptable for delivery to the facility and the types of wastes that are not accepted at the facility. This sign will be a minimum of 12 inches high by 18 inches wide and have lettering a minimum of one-inch height. The sign will read **"CAUTION - REGULATED MEDICAL WASTE. VISITORS AND UNAUTHORIZED PERSSONNEL MUST REPORT TO THE OFFICE".** The sign will also include the universal biohazard symbol.

7.1.2 Inspection of Waste (360.19(c)(1)(ii))

When a collection vehicle reaches the receiving area, it is unloaded by the facility trained workers who will inspect the containers for unauthorized wastes. If such wastes are identified, the matter will be addressed with the responsible driver and the generator.

Only RMW waste which this facility is permitted to handle is accepted. Generators and transporters of RMW waste received at this facility are informed in writing of the acceptable material types by the facility. Signs are posted at the entrance to the transfer station stating, among other things, the types of RMW waste accepted. All incidents of unauthorized waste being inadvertently deposited at the 893 Shepherd Avenue Facility will be reported to NYSDEC.

As collection vehicles enter the facility, information such as vehicle type, company, and source of material is recorded using the DOT/NYSDEC tracking document which include transporter registration number, generator name, address and phone number and number of containers. Receiving scale intended to confirm weight received and drive in door is equipped with radiation detectors that monitor incoming vehicles and containers for radioactive material. Visual evidence of unauthorized containers and vehicles will be cause for reject. Employees are trained to identify authorized and unauthorized wastes.

The containers will be further examined as it is moved into the staging areas. In the event unauthorized delivery to the facility, such material will be adequately segregated and secured in a designated area within one hour of the discovery.

The unauthorized waste other than radioactive will be quarantined and resolved with the generator. A logbook will be maintained by the Emergency Coordinator to record events, date, time, description, actions and disposition, etc. All incidents of receipt of unauthorized waste will be recorded in the respective daily log with such information included in the subsequent annual report to the Department.

Vehicles with detected radioactive waste are quarantined and will be handled in accordance with Sharps' Radioactive Waste Control Procedure (see Appendix B).

7.1.3 Type(s) of Waste Authorized to be Accepted (360.19(c)(1)(iii))

Sharps Regulated Medical Waste Service Agreement will include the following authorized waste acceptance:

- RMW generated in diagnosis, treatment or immunization of humans, or animals, in research pertaining thereto, or in production and testing of biologicals. Sharps waste acceptance practices and policies are based upon federal, state, and local laws for regulated medical waste. For the purposes of this document, the term regulated medical waste also means biohazardous, biomedical, or infectious waste and includes:
- Cultures and stocks of infectious agents, culture dishes and devices used to transfer, inoculate or mix cultures that have come into contact with or are known to be contaminated with biological agents infectious to humans, or agents of economic concern (e.g., foreign animal diseases);
- human and animal pathological waste, including tissue, organs, body parts, excluding teeth and contiguous structures of bone and gum, body fluids removed during surgery, autopsy or other medical procedures, specimens of body fluids and their containers, and discarded materials saturated with body fluids other than urine. Human pathological waste must not include urine or fecal material submitted for purposes other than diagnosis of infectious diseases;
- human blood and blood products, including their components (e.g., serum and plasma), containers with free-flowing blood, discarded blood products as defined in 10 NYCRR Subpart 58-2, and materials saturated with flowing blood (except feminine hygiene products);
- Pharmaceutical waste means solid waste that is a discarded, unwanted, or expired drug (as defined in Article 137, section 6802 of the New York Education Law) including veterinary drugs, a prescription drug (as defined in Article 2-A section 270, of the New York Public Health Law) or over-the-counter remedy, toxic drug, medicine, or biological drug formula or mixture used or administered as an immunization, or an aid in the diagnosis, treatment or prevention of disease and the maintenance of health, or used in research or the production and testing of biologicals. Pharmaceutical waste does not include any drug waste that is regulated as a hazardous waste under Part 371 of this Title or prohibited radioactive materials as defined in this Part.

7.1.4 Unauthorized Access and Security Measures (360.19(c)(10), 365-2.4(b)(4)) and 365-2.5(e)(1))

Fully enclosed facility is designed to prevent unauthorized access. Inside and outside of facility is continuously monitored (24 hours) with a video recorders and camera system with displays in the offices to additionally monitor incoming and outgoing traffic. Access is also through lockable doors at both entrances/exits. Only RMW designated transport vehicles are allowed to enter the facility during working hours and ALL VISITORS will be directed away from the RMW area, to the front office.

7.1.5 Posted Signs (365-2.5(e)(2))

The transfer facility will includes conspicuously posted signs at each entrance to the facility that identifies the types of waste that are acceptable for delivery to the facility and the types of wastes that are not accepted at the facility. This sign will be a minimum of 12 inches high by 18 inches wide and have lettering a minimum of one-inch height. The sign will read **"CAUTION - REGULATED MEDICAL WASTE. VISITORS AND UNAUTHORIZED PERSSONNEL MUST REPORT TO THE OFFICE".** The sign will also include the universal biohazard symbol.

The transfer station will only be accessible to authorized persons, warning signs will be placed at exterior doors (entries and exits). The warning signs will include the nationally recognized biohazard symbol and must be easily read from a distance of 25 feet.

8 RECORDKEEPING

Daily logs are kept for both acceptable and unacceptable material including the date, signature of the recorder, the quantity, description, tracking number, and generator of all material received and treatment facility destination. In addition, records are kept of all self-inspection activities and any significant events at the facility, such as spills, security problems, contingency transfer events, unscheduled shut-downs, and malfunctions and remedies. Copies of shipping documents, including manifests as needed for unauthorized wastes will be retained in accordance with applicable recordkeeping requirements.

8.1 Recordkeeping and Reporting (360.19(k))

1. Application Documents. Sharps will must maintain at the facility or other approved location, and make readily available for inspection throughout the life of the facility including the post-closure care period and the custodial care period, a copy of all information and data required as part of the application for the permit or submittal for registration, as well as construction certification and closure construction certification documents. (360.19(k)(1) and 360.16(c)(4)(ii)(m))

2. Operating records. Sharps will maintain at the facility or other approved location, and make readily available for inspection for a period of no less than seven years from the date a particular record was created, the following operating records: (360.19(k)(2))

    I. A daily log of wastes received that identifies the waste type, quantity, date received, and planning unit where the waste was generated, and the quantity and destination of any waste, products or recyclables that are removed from the facility. (360.19(k)(2)(i))
    II. Routine inspection logs that must include, at a minimum, the following information: the date and time of the inspection, the name of the inspector, a description of the inspection including the identity of specific equipment and structures inspected, the observations recorded, and the date and nature of any remedial actions implemented, or repairs made as a result of the inspection. (360.19(k)(2)(ii))
    III. All monitoring information necessary for compliance with the requirements of this Part and the requirements applicable to permitted facilities in Parts 361, 362, 363, and 365 of this Title. (360.19(k)(2)(iii))
    IV. Records documenting training programs, schedules, and certifications as required. (360.19(k)(2)(iv))
    V. Any other information required in a permit or registration under this Part or that the department may require be created and maintained as part of the daily operating records. (360.19(k)(2)(v))

8.2 Recordkeeping and Reporting Requirements (365-2.8)

The following records are maintained on-site for a minimum of three years and will be available for

inspection and copying by the department: (365-2.8(a))

1. RMW managed by quantity and category as specified by the generator on the container. Categories include cultures and stocks, human pathological waste, human blood and blood products, sharps, animal waste, and other (specify characteristics). (365-2.8(a)(1))

2. How all RMW was managed, including treatment, if applicable. For treatment, copies of certificates of treatment must be retained. For shipment off-site for treatment, copies of tracking documents must be retained. (365-2.8(a)(2))

8.3 Annual Report (360.19(k)(3)

1. Sharps will submit a completed annual report in a format acceptable to the department no later than March 1 of each year for the previous calendar year, on forms prescribed by the department. **(**360.19(k)(3)(i)) and
2. Related to the facility's compliance under this Part or Parts 361, 362, 363, or 365 of this Title, or under the terms of any permit issued under this Part, must make, 360.19(j)(2) page 73 of 101 sign, and submit with the report the following certification: **(**360.19(k)(3)(ii))

   "I certify, under penalty of law, that the data and other information identified in this report have been prepared under my direction and supervision in compliance with the system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law."

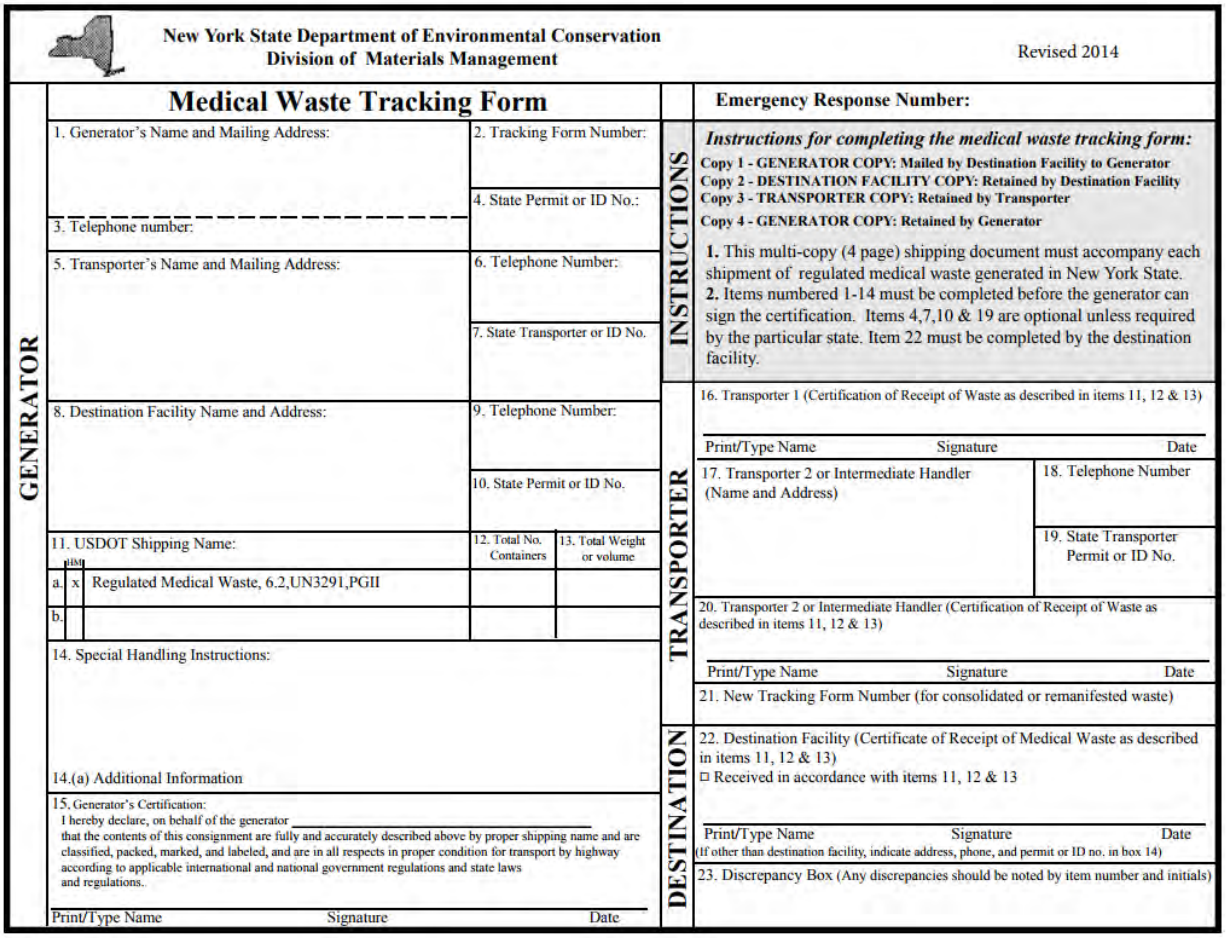
8.4 Reporting (365-2.8(b))

Sharps will submit an annual report covering the previous calendar year, on forms prescribed by or acceptable to the department. The report will include:

1. a summary of the RMW managed, by quantity and if feasible, by category as specified by the generator on the containers. Categories include cultures and stocks, human pathological waste, human blood and blood products, sharps, animal waste, and other (specify characteristics); (365-2.8(b)(1))
2. a summary of all waste received that could not be managed at the facility and how it was handled; (365-2.8(b)(2))
3. for storage and transfer facilities, an identification of the treatment facility that received the RMW. (365-2.8(b)(3))

8.5 Tracking Form (manifest) (365-2.4(a)(11))

Sharps will comply with the following instructions to manage the required tracking forms.



New York State Department of Environmental Conservation
Division of Materials Management

Revised 2014

Medical Waste Tracking Form

Emergency Response Number:

GENERATOR

1. Generator's Name and Mailing Address:
2. Tracking Form Number:
3. Telephone number:
4. State Permit or ID No.:
5. Transporter's Name and Mailing Address:
6. Telephone Number:
7. State Transporter or ID No.
8. Destination Facility Name and Address:
9. Telephone Number:
10. State Permit or ID No.
11. USDOT Shipping Name:
12. Total No. Containers
13. Total Weight or volume
a. x Regulated Medical Waste, 6.2,UN3291,PGII
b.
14. Special Handling Instructions:
14.(a) Additional Information
15. Generator's Certification:
I hereby declare, on behalf of the generator _____
that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
Print/Type Name Signature Date

INSTRUCTIONS

Instructions for completing the medical waste tracking form:

Copy 1 - GENERATOR COPY: Mailed by Destination Facility to Generator
Copy 2 - DESTINATION FACILITY COPY: Retained by Destination Facility
Copy 3 - TRANSPORTER COPY: Retained by Transporter
Copy 4 - GENERATOR COPY: Retained by Generator

1. This multi-copy (4 page) shipping document must accompany each shipment of regulated medical waste generated in New York State.
2. Items numbered 1-14 must be completed before the generator can sign the certification. Items 4,7,10 & 19 are optional unless required by the particular state. Item 22 must be completed by the destination facility.

TRANSPORTER

16. Transporter 1 (Certification of Receipt of Waste as described in items 11, 12 & 13)
Print/Type Name Signature Date
17. Transporter 2 or Intermediate Handler (Name and Address)
18. Telephone Number
19. State Transporter Permit or ID No.
20. Transporter 2 or Intermediate Handler (Certification of Receipt of Waste as described in items 11, 12 & 13)
Print/Type Name Signature Date
21. New Tracking Form Number (for consolidated or remanifested waste)

DESTINATION

22. Destination Facility (Certificate of Receipt of Medical Waste as described in items 11, 12 & 13)
☐ Received in accordance with items 11, 12 & 13
Print/Type Name Signature Date
(If other than destination facility, indicate address, phone, and permit or ID no. in box 14)
23. Discrepancy Box (Any discrepancies should be noted by item number and initials)

8.6 Record Retention Location (360.16(c)(4)(ii)(m))

*Location and Retention Period of Pertinent Records (*The table below (8.1)

Table 8.1Record Locations & Retention Period

Type of Record	Minimum Retention Period	Location
Application Documents	Life of the Facility	On-site
• Permit Application		
• Post-Closure (care period and post care period)		
Operating Records:	Seven Years	
• Daily Longs		
• Inspection Logs		
• Monitoring Information		
• Radiation Records		
• Unauthorized Waste Records		
• Equipment Specifications		
• Maintenance		

• Calibration		
• Training Records		
Permit Records	Three Years	
• Registration Records		
• Correspondence with Agencies		
Annual Report	Three Years	
RMW Managed	Three Years	
• Tracking Documents (Manifests)		
• RMW Received		
• RMW Transferred		
Administration Records	Three Years	
• Safety Records		
• Medical Records		
• Security		

9 FACILITY START-UP AND SHUT-DOWN (365-2.4(b)(7))

9.1 Description of Startup, scheduled and Unscheduled Shutdown (360.16(c)(4)(ii)(a))

Operating Hours are 6:00 37:00 PM, Monday through Friday. The site will be closed on holidays. Each day, there will also be a period during when the facility is inspected and cleaned. Procedures to be followed during startup, scheduled and unscheduled shutdown of operations are as follow:

9.1.1 Startup (Daily Normal Operations)

The transfer facility operations personnel are trained and provided to perform these and other day-to-day tasks and to report any nonconforming condition(s) to the plant manager or designee:

- Monitor safe operating limits of equipment and facility,
- Identify unauthorized wastes and conditions,
- Inspect inventory to ensure it meets permit storage limits,
- Calibrate scales to ensure they are operating effectively and efficiently using manufacturers recommended checks,
- Forklift is fully charged and inspected,
- Radiation Monitors are inspected daily and conform to the manufacturer's requirements,
- Vehicles are checked prior to operation.

9.1.2 Scheduled Shut-Down

The transfer facility operations, equipment and personnel do not require routine scheduled shut-down.

9.1.3 Unscheduled Shut-Down

In the event that a mechanical problem, fire, or other unforeseen circumstance requires an unscheduled shut-down, all RMW containers which are on-site will be processed and loaded and transported to authorized treatment facility. Also, RMW incoming collection vehicles will be re-routed to same authorized destination facility.

The plant manager will organize personnel to secure the RMW waste and shut down all equipment, unless dangerous conditions prohibit such action, and will advise emergency responders, as appropriate. A Contingency Plan included in Chapter 14 of this report outlines the appropriate procedures to be followed during unscheduled shut-downs caused by fire or other non-equipment related emergency.

9.2 Handling RMW (During Shutdown) (365-2.4(b)(7))

RMW incoming collection vehicles will be re-routed to same authorized destination facility.

The plant manager will organize personnel to secure the RMW waste and shut down all equipment, unless dangerous conditions prohibit such action, and will advise emergency responders, as appropriate. A Contingency Plan included in Section 11 of this report outlines the appropriate procedures to be followed during unscheduled shut-downs caused by fire or other non-equipment related emergency.

9.3 Shut-Down Notification (360.19(d)(9))

In the event of unscheduled closure of the facility exceeding 24 hours, the plant manager or designee will take the following steps, as appropriate. If the event occurs on a non-holiday weekday, from 6:00 AM to 7:00 PM, the plant manager will, within one (1) hour following such event, inform NYSDEC Engineer and the company's Executive Management by phone and email. Within 15 days of the incident, a written report will be submitted to the Department, see following Sample Shutdown Notification Report:

Sample Shutdown Notification Report

Date:

Agency Address:

RE: Unscheduled Shutdown and Malfunction Report XXXXX Regulated Medical Waste Transfer Station.

Permit No. _____

Dear _____:
The Sharps Compliance, Inc., Transfer facility is subject to the New York State Department of Environmental Conservation. The NYSDEC requires that a report be submitted following a Shutdown incident discussing the facility's compliance with NYSDEC (360.19(d)(9)).

Name Name/address/telephone number of filer
Name/address/telephone number of facility
Date/time/location of incident
Brief description
Description and estimated quantity by weight or volume of waste/materials involved
Contamination assessment
Estimated quantity and disposition of recovered materials from the incident
Description of future prevention actions
Others (describe)

If you have any questions regarding this Incident Report, please contact me at (List Phone Number).

Sincerely,

XXXXXXXXXXXXXX (NAME OF COMPANY/TITLE HERE) Attachment:

10 HAZARD AND NUISANCE CONTROL

10.1 Leachate Minimization and Control Methods (360.16(c)(4)(ii)(e))

Facility features and operational procedures are designed to prevent introduction of water or wastes into the surface or groundwaters of the State. Please note that there are no private or public wells on the adjoining properties within 800 feet and that the adjoining properties are served by local utility. Waste is unloaded, stored for a short duration and loaded onto long-haul vehicles within a building designed to prevent escape of refuse or water into the environment. In addition, containers are never opened and remain sealed from collection site through transfer to the treatment facility. Receiving and storage areas are swept/vacuumed regularly, any discovered leaks in vehicles or containers are immediate contained in RMW container, surfaces that have come in contact with a leak will be disinfected and any residual wash waters will either be absorbed with paper towels, cloths or equivalent material and placed inside RMW containers and managed as untreated medical waste. No leachate is anticipated from the proposed facility; therefore, no drainage system used for the collection and storage of leachate is proposed for the Sharps facility.

10.2 Dust Control (360.19(g))

The nature of the waste received and the activity at the facility is not expected to generate any dust. Inside the facility is swept and cleaned on a daily basis.

10.3 Vector Control (360.19(h))

The operation of the facility will not constitute an opportunistic environment for the breeding of vectors. RMW containers are handled indoors and removed from the transfer station building within 72 hours of receipt. A third-party Pest control contractor will be monitoring and inspecting the facility on a monthly basis.

10.4 Odor Control (360.19(i)) and 365-2.4(a)(7))

The operation of the facility will not constitute odor. RMW containers are received sealed and remain sealed throughout from generator collection to treatment facility. Containers are stored in-doors and removed from the transfer station building within 72 hours of receipt.

10.5 Noise Levels and Noise Assessment (360.19(j)(1-6)) and 360.16(c)(3)(ii))

The proposed transfer station is not expected to produce noise that will exceed existing ambient noise levels and will not propose actions to remove existing natural barriers that could act as a noise barrier or screen. Additionally, NYSDEC guidance on noise analysis provides that, where a facility is "as-of-right" pursuant to local zoning, it may be presumed that the use will not cause significant adverse impacts, provided the operator will comply with best management practices. The proposed Transfer Station is an as-of-right use in an M1-1 district, and Sharps will comply with best management practices. The following details potential noise sources and mitigation plan:

Constructions

Facility does not involve constructions, physical disturbances to the property or land use activities. The ambient noise levels are unaffected.

Stationary Sources

Stationary sources likely to generate substantial noise include unenclosed cooling or ventilation equipment, truck loading docks, loudspeaker systems, stationary diesel engines (typically more than 100 horsepower), car washes, or other similar types of uses. The proposed transfer facility will not involve the introduction of:

- Any substantial stationary sources or introduce any noise-sensitive receptors, all activities will be performed indoors,
- Cause a substantial stationary source (e.g., unenclosed mechanical equipment for manufacturing or building ventilation purposes, playground) to be operating within 1,500 feet of a receptor, with a direct line of sight to that receptor; or
- Introduce a receptor in an area with high ambient noise levels resulting from stationary sources,
- Such as unenclosed manufacturing activities or other loud uses.

The facility is designed to minimize sound resulting from the facility's operations that could exceed the allowable levels at or beyond the property line. All transfer station activities are located within an enclosed building and require no noise generating equipment.

Mobile Sources

The transfer station has been designed to accommodate the traffic flow in a safe and efficient manner. The transfer station would generate, at most, 30 collection vehicles and 7 long-haul truck trips per day requiring no queuing along the access road. The proposed transfer station would not generate traffic volumes that would exceed the mobile source threshold of 50 passenger car equivalent peak vehicle trip-ends. The CEQR Technical manual provides that, "if existing Noise PCE values are not increased by 100 percent or more, it is likely that the proposed project would not cause a significant adverse vehicular noise impact, and therefore, no further vehicular noise analysis is needed.

10.6 Noise Monitoring (360.16(c)(4)(v)(a-d))

Noise monitoring is not required for the proposed transfer station.

11 PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) (365-2.4(d))

Section 11, Preparedness, Prevention and Contingency (PPC) (hereinafter referred to as the "PPC Plan") has been prepared to prevent emergencies and accidents and to provide effective and efficient response to emergencies and accidents that may occur at Sharps Compliance, Inc., facility. The objective of the PPC Plan is to reduce the potential impact of spills, releases, accidents, disasters and other emergencies on public health, occupational safety and the environment.

The facility will accept, handle, store, and transfer Regulated Medical Waste (RMW) which includes; chemotherapeutic, pathological, and pharmaceutical waste collected from small to midsize generators and packaged inside DOT, USPS and FDA approved containers utilizing DOT registered vehicles for the collection and transfer of RMW containers. Customers will include from small to mid-size generators such as Dental offices, Veterinarian Clinics, Medical Offices, Retail Clinics, Urgent Care Centers, Long Term Care Facilities, Home Infusion, etc.

RMW containers are received sealed and remain sealed throughout from generator collection to treatment facility, both collection and long-haul vehicles are leakproof. Operations take place inside enclosed building and all RMW activates include the following areas: radiation monitors, scales, storage area, loading and unloading docks.

The facility will be staffed with qualified individuals experienced with all requirements and regulations as they apply to the handling of RMW waste. All personnel should have the basic understanding of the content of this report. The Plant Manager or designee should have the basic knowledge of Regulated Medical and Chemotherapeutic Waste as defined by the Permit terms and conditions.

11.1 Emergency Response Plan (360.16(c)(4)(iv))

The requirements of the PPC Plan and Emergency Response Plan are similar in nature; therefore both plans have been integrated for consistency to satisfy the requirements of Parts 360 and 365 (specifically 365-2.4(d) and 360.16(c)(4)(iv)).

The training will be job specific to the duties, tasks, and responsibilities of each employee's position. The Plant Manager or experienced employees, who are knowledgeable of the requirements for satisfactory job performance, will provide on-the-job training and monitor the employee's progress.

This PPC Plan will be reviewed and updated on an annual basis or as needed to reflect any changes at the site. If the plan fails in an emergency, the plan will be reviewed and revised to meet the facility's needs. A copy of the PPC Plan will be maintained onsite at all times.

11.2 Response to Emergencies (360.16(c)(4)(iv)(a))

The Plant Manager has been appointed and responsible for implementing, maintaining and updating the PCC Plan. The Plant Manager or designee will be present on-site during working

hours. It is the responsibility of this person to identify and coordinate any special or emergency activities during operating hours.

The facility is equipped with portable extinguishers located throughout the facility. "No Smoking" signs will be posted in accordance with the requirements.
Sprinkler system is installed at the existing facility, the system is in accordance with the requirements of the NYC Building Code and the guidelines of the National Fire Protection Association (NFPA 13).

Periodic inspections of the serviceability of portable extinguishers and an annual maintenance check of fire extinguishers by a qualified vendor will be performed. Also, periodic inspections of areas known to contain fire hazards will be performed. Employees will be informed of fire hazards in their work area or job duties. The Fire Prevention Program includes procedures for notifying workers and the Fire Department, fire extinguisher usage training, and a posted evacuation route.

Events that require the attention of the Emergency Coordinator include fire, explosion, natural disasters and spill that occur at the facility. The Emergency Coordinator will secure the facility by closing off the affected area. Once the area has been isolated, appropriate actions will be taken, for example, activation of fire extinguishers, or removal of combustible material. A logbook will be maintained by the Emergency Coordinator to record events, date, time, description, actions/repairs, etc. All incidents of receipt of unauthorized waste will be recorded in the respective daily logs.

The Emergency Coordinator will be responsible for contacting any additional support teams as needed to assist in responding to an event. If evacuation of the facility is necessary, the Emergency Coordinator will activate the alarm, and use cell phones to alert employees, direct employees to evacuation routes and oversee roll calls at assembly areas. If the emergency shutdown results in an unscheduled facility shutdown lasting more than 24 hours NYSDEC staff will be notified immediately.

List of Emergency Coordinators/Contacts. ***(Emergency Coordinator Contact Information will be provided prior to facility start-up)***

Table 11.1		
Contact	**Primary Phone No.**	**Secondary Phone No.**
Plant Manager	TBD	TBD
Backup Emergency Coordinator	TBD	TBD
Office Manager	TBD	TBD

Arrangements will be coordinated with the respective emergency response teams in the event that their service is required at the facility. Sharps maintains contact with the local fire department, police department, and first aid/ambulance squads. Prints of the facility layout showing location of site features and RMW staging areas, doors and fire extinguishers are provide where required. The following is a list of Emergency Assistance Contacts:

Table 11.2			
Emergency Assistant	**Contacts**	**Emergency Assistant**	**Contacts**
Fire Department	911	Police Department	911
Fire Station Company 225	799 Lincoln Avenue Brooklyn, NY 11208 Major Cross Streets – Lincoln Ave & Linden Blvd	New York City Police	(718) 827-3511 75th Precinct 1000 Sutter Ave Brooklyn, New York 11208 Major Cross Street -Sutter Ave and Linwood Street
The Brooklyn Hospital	(718) 250-8000 Center 121 DeKalb Ave Brooklyn, New York 11201 Major Cross Streets - Ash Land Place and Flatbush Avenue Emergency Service 24 Hours Per Day Ambulance	Presbyterian/Queens Hospital	(718) 670-2000 56-45 Main Street Flushing, New York 11355 Major Cross Streets - Booth Memorial and Main Street Emergency Service 24 Hours Per Day Ambulance Service – Yes
Woodhull Hospital	(718) 963-8000 720 Flushing Ave Brooklyn, New York 11206 Major Cross Streets - Broadway & Grand Ave Emergency Service 24 Hours Per Day Ambulance Service - Yes	Astoria General Hospital (Mount Sinai)	(718) 932-1000 25-10 30th Avenue Astoria, NY 11102 Major Cross Streets - Crescent and 30th Avenue Emergency 24 Hours Per Day
New York State Department of Environmental Conservation (NYSDEC)	Phone (518) 402-8013 Spills Hotline 1 (800) 457-7362	NYC Department of Sanitation (DSNY)	(646) 885-5027 Permits and Inspections
New York City DEP	(718) 699-981 Complaints and Emergency Services	NYSDEC Region 2 Division of Materials Management	(718) 482-4026 47-40 21st Ave. Long Island City, NY 11101

11.3 Emergency Response Methods (360.16(c)(4)(iv)(b) and 360.19(m))

In the event of an incident or emergency the Emergency Coordinator will assume control of the situation. The Emergency Coordinator will have the authority to commit the resources necessary to respond to any event that may occur at the facility, and will, at a minimum, take the following actions:

11.3.1 Activate facility alarms or communications systems to notify facility personnel.

11.3.2 Make an assessment of actual or potential hazards to public health and safety, public welfare and the environment, which would be occurring or may occur.

11.3.3 Ensure that fires, spills, or other hazards do not occur, recur, or spread to other areas of the facility.

11.3.4 Immediately phone the local and/or county and the Department's emergency

11.3.5 management agency, and report the following information:

- name and phone number of person reporting the incident;
- name, address, and permit number of the facility;
- date, time and location of emergency;

- description of the nature of the emergency;
- type and quantity of material involved;
- existence of dangers to public health and safety, public welfare and the environment;
- nature of injuries; and
- parts of the contingency plan being implemented to alleviate the emergency.

11.3.6 After an emergency, the Emergency Coordinator shall ensure that:

- the affected area is cleaned and disinfected;
- recovered waste is contained and stored or disposed of in a manner approved by the Department;
- if necessary testing of the affected area has been accomplished in order to ensure that the contaminants have been adequately removed; and
- receiving of RMW is halted until the area has been cleaned and the Department has been notified of the emergency.

11.3.7 Unscheduled closure of the subject facility exceeding 24 hours, If the emergency shutdown results in an unscheduled facility shutdown lasting more than 24 hours NYSDEC staff will be notified immediately.

11.3.8 Events that adversely affect operations in such way to cause an extended shutdown. Operations would be suspended until facility and or equipment have been repaired and activities are resumed. RMW waste would be diverted from facility to authorized destination facility. Waste stored at the facility would be transported to off-site authorized facility.

Emergency Protocol and Response Method

Table 11.3

Type	Profile of Emergency:	First Response:
Freezing Rain	Freezing rain is rain occurring when surface temperatures are below freezing. The moisture falls in liquid form, but freezes upon impact, resulting in a coating of ice glaze on exposed objects. This occurrence may be called an ice storm when a substantial glaze layer accumulates. Ice forming on exposed objects generally ranges from a thin glaze to coatings about an inch thick. A heavy accumulation of ice, especially when accompanied by high winds devastates trees and transmission lines. Sidewalks, streets and highways become extremely hazardous to pedestrians and motorists. During the winter citizens should be prepared to shelter themselves at home for several days possibly without power. Local shelters can be opened in areas where power is not affected but transportation to a shelter may be difficult.	Step 1: Monitor weather advisories. Step 2: Notify on-site employees. Step 3: Call local radio and TV stations to broadcast weather closing information for employees at home. Step 4: Place closing sign on all SHARPS doors Step 5: Arrange for snow and ice removal. Step 6: Assess damage.
Tornado	Tornadoes are violent rotating columns of air, which descend from severe thunderstorm cloud systems. They are normally short-lived local	Step 1: Monitor weather conditions. Step 2: Notify employees of the potential for severe weather.

Table 11.3		
Type	**Profile of Emergency:**	**First Response:**
	storms containing high-speed winds usually rotating in a counter-clockwise direction. These are often observable as a funnel-shaped appendage to a thunderstorm cloud. The funnel is initially composed to nothing more than condensed water vapor. It usually picks up dust and debris, which eventually darkens the entire funnel. A tornado can cause damage even though the funnel does not appear to touch the ground.	Step 3: Power off equipment. Step 4: Shut off utilities (power and gas). Step 5: Instruct employees to assume protective posture. Step 6: Assess damage. Step 7: Assist affected employees.
Flood	Unusually heavy rains may cause "flash" floods. Small creeks, gullies, dry streambeds, ravines, culverts or even low-lying ground frequently flood quickly. In such situations, people are endangered before any warning can be given.	Step 1: Monitor flood advisories. Step 2: Determine flood potential to SHARPS facilities. Step 3: Determine employees at risk. Step 4: Assess damage.
Hurricane	Hurricanes are massive storm systems that form over the water and move toward land. Threats from hurricanes include high winds, heavy rainfall, storm surge, coastal and inland flooding, rip currents, and tornadoes. These large storms are called typhoons in the North Pacific Ocean and cyclones in other parts of the world.	Step 1: Power-off all equipment. Step 2: Listen to Hurricane advisories. Step 3: Evacuate area, if flooding is possible. Step 4: Do not use telephones, in the event of severe lightning. Step 5: Assess damage.
Earthquake	An earthquake is the shaking, or trembling, of the earth's crust, caused by underground volcanic forces of breaking and shifting rock beneath the earth's surface.	Step 1: Shut off utilities. Step 2: Evacuate building if necessary. Step 3: Account for all personnel. Step 4: Determine impact of organization disruption.
Power Failure	Power failures occur in many parts of the county throughout the year. They can be caused by winter storms, lightning or construction equipment digging in the wrong location. For whatever the reason, power outages in a major metropolitan area can severely impact the entire community.	Step 1: Wait 5-10 minutes. Step 2: Power-off all servers and computers. Step 3: Perform soft shut down procedure on servers and computers fed emergency or uninterruptable power. Step 4: Shut down main power circuit. Step 5: Use cellular phone to make outgoing emergency phone calls. Step 6: Call electrical power company for assessment. Step 7: Re-energize facility main power circuit. Step 8: Power-on equipment.
Fire	Fires can, and do, cause hundreds of deaths each year.	Step 1: Attempt to suppress fire in early stages. Step 2: Evacuate personnel to assembly location, as necessary. Step 3: Notify fire department. Step 4: Shut off utilities.

Table 11.3		
Type	**Profile of Emergency:**	**First Response:**
		Step 5: Account for all personnel. Step 6: Search for missing personnel. Step 7: Asses damage.
Compromised Packaging	In the event a container is received opened, damaged, or broken. The transfer station will have adequate inventory of clean red bags and containers for containing and repackaging.	Step 1: Repackage container Step 2: document incident on RMW tracking document Step 3: Notify both Collection transporter and generator.
Equipment Malfunction	Short term equipment breakdown at the facility would not adversely affect operations in such way to cause an environmental release or a safety problem. Operations would be suspended until equipment has been repaired and activities are resumed. In the event of extended repair period, RMW waste would be diverted from facility to authorized destination facility.	Step 1: RMW waste would be diverted from facility to authorized destination facility. Step 2: RMW stored at the facility would be transported to off-site authorized facility.
Explosion		Step 1: Instruct employees to take shelter against your desk or a sturdy table. Step 2: Exit the building ASAP. Do not stop to retrieve possessions. Do not use elevators. If you are trapped in debris, do not light a match. Cover your mouth to prevent inhaling dust. Whistle or tap to get the attention of rescuers. Step 4: Check for fire and other hazards like weakened floors and falling debris. Step 3: Notify fire department. Step 4: Shut off utilities. Step 5: Account for all personnel. Step 6: Search for missing personnel. Step 7: Asses damage.
Spills	**See Section 12.5.4 Spills bellow.**	

11.4 Handling of Spills (365-2.4(a)(9))

All transfer facility operators will be trained to identify acceptable containers and instructed on how to handle spills, breached containers or contaminated equipment. Depending on the nature of the spill or breach affected containers, surfaces and equipment of the transfer station facility:

The transfer station will keep spill containment and cleanup kits within the vicinity of any area where RMW wastes are managed, and the location of the kit provides for rapid and efficient cleanup of spills anywhere within the facility. All vehicles transporting RMW are required to carry a spill containment and clean up kit in the vehicle whenever RMW is transported (see Spill Kit Table 11.4).

If special controls are required, then part or all of the activities at the facility may need to be halted. In the case of violent chemical reactions, fire, or dangerous vapors resulting from a spill evacuation procedure will be followed.

Spill Kit (Table 11.4)	
1.	Absorbent material for spilled liquids. The absorbent material shall have a rated capacity of one (1) gallon of liquid for every cubic foot of regulated medical waste that is normally managed in the area for which the kit is provided or ten (10) gallons, whichever is less.
2.	One (1) gallon of disinfectant in a sprayer capable of dispersing its charge in a mist and in a stream. The disinfectant shall be of hospital grade and be effective against mycobacteria.
3.	Fifty (50) red plastic infectious waste bags accompanied by sealing tape (or devices), and appropriate labels. These bags shall be large enough to overpack any box or other container normally used for RMW waste and meet the applicable USDOT requirements of 49 CFR Part 173
4.	Two (2) sets of overalls, gloves, boots, caps and protective eye covering, all of which shall be disposable and be impermeable to liquids. Overalls, boots and caps shall be oversized or fitted to medical wastes workers and be made of a moisture resistant or moisture proof material. Gloves for handling regulated medical waste where sharps are not present shall be durable and of moisture resistant or moisture proof material. Gloves for handling sharps shall be puncture resistant or puncture proof in addition to liquid resistant. Boots shall be of durable moisture resistant or moisture proof material which will not tear under the stress of walking. Minimum protective breathing devices shall be surgical masks. Tape for sealing wrists and ankles shall also be provided in the kit.
5.	A first aid kit (unless emergency medical care is available on the premises), fire extinguisher, and other appropriate safety equipment.
6.	Adequate inventory of cleaned ready to use RMW containers
The disinfectants used in cleaning up a spill shall be registered with the U.S. EPA as hospital disinfectants that are also tuberculocidal, fungicidal, virucidal and effective against HIV-1. Also, approved as a disinfectant is one-to-ten (1:10) dilution of five percent (5%) sodium hypochlorite solution. Cleaning and disinfecting equipment will be made available to ensure that the cleaning tasks are carried out safely and effectively. **Residue wash waters will either be absorbed with paper towels, cloths or equivalent material placed inside RMW containers and managed as untreated medical waste.**	

11.5 Potential Operational Problems (365-2.4(d))

The following describes the actions that will be taken to address potential operational problems including, but not limited to, compromised packaging, equipment malfunction or breakdown, delivery of unauthorized waste, waste not packaged appropriately, spills, fire, explosion, power failure, excessive noise, unacceptable odors, litter, and vectors. The plan must also include a contingency for treatment or disposal should processing equipment be non-functional for a period longer than seven calendar days.

11.5.1 Compromised Packaging

The transfer station will have inventory of clean red bags and RMW containers for containing and repackaging broken or otherwise compromised containers.

11.5.2 Equipment Malfunction or Breakdown

Equipment breakdown at the facility would not adversely affect operations in such way to cause an environmental release or a safety problem. Operations would be suspended until equipment

has been repaired and activities are resumed. In the event of extended repair period, RMW waste would be diverted from facility to authorized destination facility (Appendix I). Waste stored at the facility would be transported to off-site authorized facility.

11.5.3 Delivery of Unauthorized Waste

At Sharps transfer station, in order for a load to be accepted, the collection vehicle must have received RMW tracking document from the generator, the RMW sharps must be packaged and appropriately labeled in FDA approve sharps container. RMW and Pharmaceutical waste must be packaged using unique DOT approved containers. Both collection vehicle drivers and facility employees are trained on how to recognize unauthorized waste. Sharps reserves the right to reject any suspicious containers and any loads containing any of the wastes not permitted.

11.5.4 Spills (365-2.4(a)(9))

Depending on the nature of the spill, affected areas and equipment of the transfer station may need to be segregated. The transfer station will keep spill containment and cleanup kits within the vicinity of any area where RMW wastes are managed, and the location of the kit provides for rapid and efficient cleanup of spills anywhere within the facility. All vehicles transporting RMW are required to carry a spill containment and clean up kit in the vehicle whenever RMW is transported (see Spill Kit Table 11.4).

11.5.5 Fire and Explosions

Portable extinguishers are located throughout the facility. “No Smoking” signs will be posted in accordance with the requirements.

Sprinkler system is installed at the existing facility, the system is in accordance with the requirements of the NYC Building Code and the guidelines of the National Fire Protection Association (NFPA 13).

Periodic inspections of the serviceability of portable extinguishers and an annual maintenance check of fire extinguishers by a qualified vendor will be performed. Also, periodic inspections of areas known to contain fire hazards will be performed. Employees will be informed of fire hazards in their work area or job duties. The Fire Prevention Program includes procedures for notifying workers and the Fire Department, fire extinguisher usage training, and a posted evacuation route.

11.5.6 Power Failure

Power outage at the facility would not adversely affect operations in such way to cause an environmental release or a safety problem. Operations would be suspended until power returned and activities are resumed. In the event of extended outage, RMW waste would be diverted from facility to authorized destination facility. Waste stored at the facility would be transported to offsite authorized facility.

11.5.7 Excessive Noise

The facility is designed to minimize sound resulting from the facility's operations that could exceed the allowable levels at or beyond the property line. All transfer station activities are located within an enclosed building and require no noise generating equipment.

11.5.8 Unacceptable Odors

The operation of the facility will not constitute odor. RMW containers are received sealed and remain sealed throughout from generator collection to treatment facility. Containers are stored in-doors and removed from the transfer station building within 72 hours of receipt.

11.5.9 Litter

RMW containers are received sealed and remain sealed throughout from generator collection to treatment facility, both collection and long-haul vehicles are leakproof and all activities including loading, unloading and storage are conducted within enclosed building. Facility is cleaned and swept daily, and exterior building is inspected daily and cleaned when necessary.

11.5.10 Vectors

The operation of the facility will not constitute an opportunistic environment for the breeding of vectors. RMW is handled indoors and removed from the transfer station building within 72 hours of receipt. RMW containers are received sealed and remain sealed throughout from generator collection to treatment facility, both collection and long-haul vehicles are leakproof and all activities including loading, unloading and storage are conducted within enclosed building.

Sharps will maintain a contract for monthly visits of control of pest control.

11.5.11 Processing Equipment (Treatment or Disposal)

This facility will not have processing equipment for the treatment or disposal of RMW waste.

11.5.12 Unauthorized Packaging

When hazardous wastes, radioactive material or any waste other than RMW is found, the following steps are taken:

A. Facility operators notify the plant manager or designee immediately. The site manager or supervisor will immediately examine the material and complete the unauthorized waste report form. The driver is asked to witness the material found and sign the completed unauthorized waste report form (the unauthorized waste report form documents the material type and amount found).
B. At least (2) two pictures are taken of the unauthorized waste, the date, time, and the name of the generator.
C. When a regulated unauthorized waste is encountered within a load the facility must not move or otherwise disturb the material without authorization from the regulatory

agency(s) having jurisdiction over the unauthorized waste incident. In some cases, it may be appropriate to move the material for safety reasons.

D. The regulatory agency has the ultimate authority on how to best manage the regulated material, especially when determining if the regulated material has contaminated the entire load.

11.5.12.1 Unauthorized Waste Notification

Immediately notify the authorities according to the waste (s) material found:

Contacts list for Hazardous Waste: (Including Hazardous Material Spills)

TABLE 11.5	
AGENCY	**PHONE NUMBER**
Region 2 New York City Unauthorized Waste Incident Contact Numbers	
NYSDEC Region 2 Solid Waste	718-482-4996
NYSDEC Region 2 Enforcement	718-482-4507
Region 2, Materials Management Supervisor	718-482-4896
Kings County Department of Health	718-999-2770
NYSDEC Division of Materials Management Regional Office	718-482-4896
New York City Department of Sanitation Police	718-649-3074

11.5.12.2 Hazardous Waste Disposal

Hazardous wastes will be disposed of properly through a licensed hazardous waste disposal facility. Follow these steps when arranging for the transportation and disposal of hazardous waste:

A. Plant manager or designee will arrange for an authorized hazardous waste transporter to package and transport the hazardous waste to an authorized off-site disposal facility.

B. After the company has packaged the wastes, ensure that the generator's copy of the hazardous waste manifest remains with Sharps. The hazardous waste manifest has eight (8) pages. One (1) goes to the Sharps, two (2) to the NYSDEC, the rest go with the transporter to the final disposal site. It is the responsibility of the transporter and disposal facility to distribute the remaining copies of the manifest. The final disposal site sends Sharps and the NYSDEC, one page of the manifest certifying that the waste was received and disposed. A copy of the manifest will be sent to Sharps within 30 days of shipment. It is the plant manager or designee responsibility to track that all manifests are received within the 30 days. Immediately notify the transporter if the manifest is not received within the 30 days.

C. Retain all tracking document (manifests).

11.5.12.3 For Radioactive Waste (Emergency Contacts for Radiation Incidents)

The plant manager or designee will complete the Sharps Unauthorized Waste Report Form and notify the appropriate authority (s).

Table 11.6	
AGENCY	**PHONE NUMBER**
Region 2 New York City Unauthorized Waste Incident Contact Numbers	
NYSDEC Region 2 Solid Waste	718-482-4996
NYSDEC Region 2 Enforcement	718-482-4507
Region 2, Materials Management Supervisor	718-482-4896
NYSDEC-Radiation Division	518-402-8579

11.5.13 Radio Active Waste Disposal

Radiation incidents are not expected to take place at Sharps transfer station but when they do only a qualified third-party contractor can handle these materials. Employees of Sharps are not authorized to handle these materials at any time.

11.6 Wash Water (365-2.4(e))

Facility features, and operational procedures are designed to minimize the generation and prevent introduction of water or wastes into the surface or groundwaters of the State. All RMW containers will remain closed from generator to treatment facility. The facility will not be performing any routine cleaning/decontamination activity on sealed containers. Cleaning and decontamination of spills from compromised containers will occur on an as needed basis.

Facility is cleaned/swept regularly, adequate inventory of clean RMW containers are maintained on-site and any discovered leaks in vehicles or containers are immediate attended to, surfaces that have come in contact with a leak will be disinfected and any residual wash water will either be absorbed with paper towels, cloths or equivalent material and placed inside RMW containers and managed as untreated waste.

Wash water management plan: The proposed transfer facility operations will not include the washing and disinfecting of RMW containers for reuse.

12 TRAINING REQUIREMENTS

12.1 Training Plan (360.16(c)(4)(iii))

The transfer station Training plan identifies all of the facility's personnel by title and responsibilities and describes the training needs to ensure compliance with the requirements applicable to the facility and the management of RMW. Training will be provided for all procedures and equipment that will be used during emergencies, contingencies and standard operations.

	Table 12.1 Titles and Responsibilities
Position	**Summary of Job Description**
Plant Manager	• Ensures the highest standards of environmental safety and operational excellence by effectively managing the day-to-day operations, including: • Daily operations, administration of facility investigations, SOP, site safety, waste inspections and serving as the emergency coordinator. (waste management plan) • Assure that adequate personnel and equipment are available to comply with Sharps' and all applicable local, state or federal regulations. • Overall facility management, security and serves as the designated contact for regulatory compliance matters. • Maintaining the site operating record and required logs. • Actively monitors ongoing permitting issues. • Uses software tools to manage a variety of tasks, such as procurement, time and attendance, safety incidents, and contract labor. • Report radiation incidents • Complete reporting documents as required by regulations or as required by Sharps. • Weigh and record materials arriving or departing the facility. • Ensure employees are properly trained.
Receiving Operator	• Monitor incoming collection vehicles and RMW containers • Inspect and segregate RMW by waste type • Identify and report unauthorized waste • Monitor radiation detector and report any incidents to plant manager • Direct vehicles for loading and unloading • Maintain clean and uncluttered receiving area • Complete all necessary logs • Perform daily and weekly housekeeping inspections
Office Manager	• Manages the reception area to ensure effective telephone and mail communications both internally and externally to maintain professional image. • Supervises and coordinates overall administrative activities for the Office Administration Department. • Supervises the maintenance and alteration of office areas and equipment, as well as layout, arrangement and housekeeping of office facilities. • Negotiates the purchase of office supplies and furniture, office equipment, etc., for the entire staff in accordance with company purchasing policies and budgetary restrictions. • Supervises the maintenance of office equipment, including copier, fax machine, etc. • Responsible for the facilities day-to-day operations (such as distributing building access keys and back-up to security access cards, etc.)
Driver (Collection Vehicles)	• Transport RMW containers from generators to transfer station. • Only collect properly packaged RMW containers (inform generators of all discrepancies prior to pick up). • Inspect vehicles for mechanical items and safety issues and perform preventative

	maintenance. • Plan routes and meet delivery schedules • Document and log work/rest periods and millage spent driving and retain fuel/toll receipts • Comply with truck driving rules and regulations (size, weight, route designations, parking and break periods) as well as with company policies and procedures • Maneuver trucks into loading or unloading positions • Report defects, accidents or violations.
Driver (Lon-Hall Vehicles)	• Transport RMW containers from transfer station to destination facilities. • Only collect properly packaged RMW containers (report transfer facility plant manager of all discrepancies prior to pick up). • Inspect vehicles for mechanical items and safety issues and perform preventative maintenance. • Plan routes and meet delivery schedules • Document and log work/rest periods and millage spent driving and retain fuel/toll receipts • Comply with truck driving rules and regulations (size, weight, route designations, parking and break periods) as well as with company policies and procedures • Maneuver trucks into loading or unloading positions • Report defects, accidents or violations.
Forklift Operator	• Load and unload RMW containers from collection and log-hall vehicles • Place RMW containers in their designated storage locations. • Locate and move RMW containers to pallets or crates for storage or shipment • Identify damages and report shortages or quality deficiencies • Inspect machinery to determine the need for repairs and guarantee safety by performing regular maintenance • Keep updated records of inventory and activity logs • Comply with company policies and legal guidelines • Help maintain a safe and orderly environment of the facilities

12.2 Personnel Training (360.19(l))

Sharps will ensure sufficient, experienced and appropriately trained staff are available to manage quantity of RMW handled at the facility.

12.3 Waste Control Plan (360.19(c)(3))

To thoroughly train employees in the proper performance of their individual duties, which pertain to the management of RMW waste (Waste Control Plan) and to prepare appropriate employees to implement the proper emergency procedures effectively, if necessary. Tables 12.2 and 12.3 details the minimum training required for each job function.

12.4 Training Objectives (365-2.4(c))

The following describes personnel training that will be used to teach each employee on how to:

1. Correctly operate the equipment and discover problems. (365-2.4(c)(1))
2. Risks associated with handling RMW and how those risks can be minimized. (365-2.4(c)(2))
3. Mange compromised packaging, spills, emergencies, or unauthorized wastes. (365-2.4(c)(3))

Training Requirements by Job Function Table 12.2							
Description	**Frequency**	**Plant Manager**	**Office Manager**	**Receiving Operator**	**Forklift Operator**	**Driver (collection)**	**Driver (long-hall Vehicle)**
Permit Requirements	Ann	X	X				
Annual Report	Ann	X		X	X	X	X
Inspection of RMW containers	Ann	X					
Cleaning and Disinfection	Ann	X		X	X	X	X
Unauthorized Wastes	Ann	X	X	X	X	X	X
Authorized Waste	Ann	X	X	X	X		
Storage (RMW)	Ann	X		X	X		
Daily Housekeeping Checklist	Ann	X	X	X	X		
Weekly Housekeeping Checklist	Ann	X		X	X		
Daily Transfer Log	Ann	X		X	X		
Scales Operation	Ann	X		X	X		
Visitor Agreement	Ann	X	X				
Daily Maintenance Checklist	Ann	X		X	X		
Weekly Maintenance Checklist	Ann	X		X	X		
Manifest Procedure (Tracking Documents)	Ann	X	X	X		X	X
Calibration Log	Ann	X	X				
Incoming Waste Log	Ann	X		X			
Equipment Maintenance	Ann	X		X	X	X	X
Contingency Plan	Ann	X	X	X	X	X	X
Radiation Procedure	Ann	X		X	X		
Radiation Monitor Daily Operational Check	Ann	X		X	X		
Handheld Radiation Monitor Operational Check	Ann	X		X	X		
Dock Safety – Loading - Unloading Trucks & Trailers	Ann	X		X	X	X	X
Forklift Checklist	Ann				X		
Forklift Safety Handbook	Ann				X		
Forklift Safety Quiz	Ann				X		
Forklift Safety Quiz with Answers	Ann				X		
Pickup Procedure/Work Instruction	Ann					X	X
CMV Driver Basics (JJ Keller)	Ann					X	X
Backing & Parking: Straight Truck Series (JJ Keller)	Ann					X	X
Defensive Driving for Light & Medium Duty Vehicles	Ann					X	X
Distracted! Driving (JJ Keller)	Ann					X	X
Speed & Space Management - EYE ON (JJ Keller)	Ann					X	X
ELD Basics Training (JJ Keller)	Ann					X	X
Air Brakes – Master (JJ Keller)	Ann						X

Backing (JJ Keller)	Ann						X
Coupling & Uncoupling – Master Driver (JJ Keller)	Ann						X
Vehicle Inspections: Tractor Trailers (JJ Keller)	Ann						X

Table 12.3 Safety Training Requirements for all Transfer Facility Employees

Description	Frequency	Plant Manager	Office Manager	Receiving Operator	Forklift Operator	Driver (collection Vehicle)	Driver (long-hall Vehicle)
Back Safety	Ann	X	X	X	X	X	X
Blood and Medical Waste Handling	Ann	X	X	X	X	X	X
Combustible Dust Clause	Ann	X	X	X	X	X	X
Confined Space	Ann	X	X	X	X	X	X
Electrical Safety	Ann	X	X	X	X	X	X
Ergonomics: Back Safety	Ann	X	X	X	X	X	X
Fire Prevention & Fire Extinguishers	Ann	X	X	X	X	X	X
Intro to OSHA	Ann	X	X	X	X	X	X
Hand tool Safety	Ann	X	X	X	X	X	X
Hearing Conservation	Ann	X	X	X	X	X	X
Heat Stress	Ann	X	X	X	X	X	X
HexArmor Needle Resistant Gloves	Ann	X	X	X	X	X	X
Ladder, Slips/Trips/Falls, Walking & Working Surfaces	Ann	X	X	X	X	X	X
Lockout/Tagout	Ann	X	X	X	X	X	X
Powered Industrial Truck Safety	Ann	X	X	X	X	X	X
PPE	Ann	X	X	X	X	X	X
Safety & Tag Recognition	Ann	X	X	X	X	X	X
Signage	Ann	X	X	X	X	X	X
DOT HazMat Function Specific for RMW PU Drivers	Ann					X	X
Hazmat Transportation	Ann					X	X
Hours of Service	Ann					X	X
Intro to OSHA	Ann	X	X	X	X	X	X
PPE	Ann	X	X	X	X	X	X
Back Safety	Ann	X	X	X	X	X	X
Walking and Working Surfaces	Ann	X	X	X	X	X	X
HazCom	Ann	X	X	X	X	X	X
HAZWOPER	Ann	X	X	X	X	X	X
HIPAA	Ann	X	X	X	X	X	X
HIPAA Agreement	Ann	X	X	X	X	X	X
Bloodbourne Pathogens	Ann	X	X	X	X	X	X

Driver Daily Vehicle Inspection	Ann					X	X
Driver Maintenance Schedule	Ann					X	X

13 CLOSURE PLAN

13.1 Closure Plan (360.16(c)(4)(vi))

The design life of the transfer station is 20 years and can be extended with additional improvements. Upon termination of use, including cessation of operations for more than a year, the facility will be closed and maintained in a manner that will minimize the need for on- going maintenance or corrective actions. At the end of the useful life of the transfer station, closure will provide for the complete decommissioning of the facility, in such a manner as to present no adverse environmental impact to the facility and community. There will be no routine discharges or releases to the environment. Spills will be contained and removed at the time of occurrence, with the assistance of emergency responders, if necessary, and monitored as required. Therefore, the need for a site investigation to facilitate closure is not anticipated. Sharps will employ a licensed exterminator to investigate the building for vectors. This investigation and possible treatment will be documented and provided to the NYSDEC as part of the closure report.

13.2 Closure Requirements (360.21)

Upon making a decision to close the facility, Sharps will do the following:

1. Notify NYSDEC within 30 days prior to the anticipated final receipt of waste and within seven days of completion of all closure activities. (360.21(a)(1))
2. Within 30 days after receiving the final quantity of wastes, submit an annual report to the NYSDEC as required under this Part. (360.21(a)(2))
3. Within 60 days after receiving the final quantity of waste, remove and deliver any remaining waste to a facility authorized to accept the waste. (360.21(a)(3))
4. Within 90 days after receiving the final quantity of waste, complete all closure activities, including removal of all products resulting from the processing of waste and decontamination of all equipment and structures involved in any aspect of RMW management, in a manner acceptable to the department. (360.21(a)(4))

13.3 Cleaning and Decontamination (365-2.4(i))

The following describes Sharps procedure to disinfect all facility surfaces and validate effectiveness of disinfection process by performing blood protein:

Disinfectant/Detergent
EPA-registered hospital disinfectant/ detergent designed for general housekeeping purposes.

PPE Equipment
The person (s) assigned to clean the spill will be provided appropriate PPE equipment.

Preparation
Clean all build-up of soil, dust or other foreign material that prior to performing disinfection.

Disinfection Procedure

1. **Horizontal Surfaces**-Apply EPA-registered Solution to either surface or to cloth. Clean all horizontal surfaces in the facility ensuring that the cloth is changed when soiled.
2. **Floor Surface**- Using a cloth and bucket method with double dipping, disinfect all floor surface of the facility ensuring that the cloth is changed when soiled.

Disposal

a. Collect all used cloth, towels and mobs and
b. Place inside RMW container lined with biohazard bag and
c. Seal container and complete RMW tracking document
d. Deliver container to authorized RMW treatment facility using NYSDEC approved RMW transporter.

Blood Protein Test

The following validation methods will be used to ensure no residues remaining on surfaces that can provide nutrients for spoilage or pathogenic bacteria following facility cleanup and disinfection:

1. Using self-contained swaps that have everything needed for a result is contained in the compact device. There is no need for an instrument as results are visual and immediate. Color-change technology, the results are semi-quantitative with four possible colors. The faster the test turns purple, the higher the level of contamination on a surface. The test detects protein and other reducing agents, considered as a superior hygiene indicator to glucose because it is more difficult to remove from a surface. This test will be observed by NYSDEC employee to witness and confirm a negative result.
2. In the event NYSDEC employee is unavailable to witness test method number 1. Sharps will use the following test method:

   Independent FDA registration with ISO 17025 Accredited lab to collect, test and provide certificate of protein surface test results. Copy of test certificate and results will be provided to NYSDEC.

   Once the facility cleaning is completed, the facility will be left intact for inspection by NYSDEC. These activities will be completed within 90 days of receiving the final quantity of waste. When closure is completed, Sharps will submit to the NYSDEC certification by an individual licensed to practice engineering in the State of New York that the facility has been closed in accordance with the NYSDEC's requirements. This certification of completion will be submitted to NYSDEC within 10 days after the closure of the facility.

14 FINANCIAL ASSURANCE (360.22)

Sharps will maintain an insurance policy, providing continuous coverage beginning no later than 60 days after initial date of waste acceptance, to protect against losses related to property damage and/or personal injury (360.22(a)(1)). The current policy provides coverage for no less than $1,000,000 in such losses. Please see Appendix J for detailed financial assurance documentation.

14.1 Cost Estimates (360.22(b))

At a minimum, the closure cost estimate includes the cost to load, transport and dispose of the maximum permitted storage capacity at that proposed facility. Cost estimates also include/reflect the design, materials, equipment, labor, administration, and quality assurance for closure in accordance with the facility-specific closure plan (see Section 13). Bond worksheets are provided in Appendix J. The configuration of the proposed facility is able to accommodate the permitted capacity of 48 tpd and not to exceed 12,500 tpy of RMW inside sealed containers. The facility is designed for rapid transfer and minimum retention of sealed RMW containers. Therefore, additional financial assurance, which may be required if the potential exists for storage beyond the permitted storage capacity, is not anticipated and not included in the closure cost estimates. (360.22(b)(1)(i))

The closure cost estimates do not incorporate any salvage value of materials, facility structures or equipment, land, or other assets associated with the facility at the time of closure (see Appendix J for three (3) closure cost quotes). (360.22(b)(1)(ii))

The proposed transfer facility will annually submit to the Department for review and approval, adjusted closure cost estimates, including supporting justification to account for inflation and changes in facility conditions (360.22(b)(3)(i)). Adjusted cost estimates will be made by recalculating the maximum costs estimates in current dollars, or using an inflation factor described in 6 NYCRR 373-2.8(c)(2) (360.22(b)(3)(iii)). Each annual adjustment to the post-closure care cost estimate and the custodial care cost estimate will reflect the cost for a combined 30-year period from the date of each annual adjustment (360.22(b)(3)(iv)).

The proposed facility will include the cost estimates (see Appendix J) in the facility annual report submitted to the Department and keep a copy at the facility or other approved location. (360.22(b)(5))

14.2 Financial Assurance Requirements (360.22(c))

The amount of funds assured is sufficient to cover the costs of closure. The amount of coverage will be revised whenever necessary to cover a revised cost estimate (360.22(c)(1)(i)). All assured funds will be available when needed ((360.22(c)(1)(ii)). If required, mechanisms for corrective measures will be effective no later than 120 days after the Department's approval of the corrective measures remedy (360.22(c)(1)(iv)). All mechanisms, approved by the Department, will be legally valid, binding, and enforceable under state and federal law (360.22(c)(1)(v)).

14.3 Surety Bond (360.22(d)(2))

14.3.1 Bond Requirements

The bond for closure will be effective no later than 60 days before the initial receipt of waste. The surety company issuing the bonds will, at a minimum, be among those listed as acceptable sureties on Federal bonds in Circular 570 of the U.S. Department of the Treasury. The original bond will be submitted to the Department along with evidence or a certification by the surety company. (360.22(d)(2)(i))

The penal sum of the bond will be an amount at least equal to the current cost estimate for closure (360.22(d)(2)(ii)).

If the proposed facility fails to perform as guaranteed by the bond, or fails to provide alternate financial assurance and obtain the Department's written approval of the assurance provided within 90 days after the proposed facility and the Department receive a notice of cancellation of the bond from the surety, the surety will become liable on the bond obligation. (360.22(d)(2)(iii))

14.3.2 Standby Trust Fund

The current policy provides coverage for no less than $1,000,000; therefore, the proposed facility will establish a standby trust fund. (360.22(d)(2)(iv)).

The standby trust fund will be prepared in accordance with 360.22(d)(1). The trustee will be an entity with the authority to act as a trustee. An original, signed duplicate of the trust agreement will be submitted to the Department along with evidence or a certification (360.22(d)(1)(i)). The pay-in period, for the standby trust fund used as an alternative for demonstrating financial assurance, will be no more than one year (360.22(d)(1)(ii)(a)).

Since this trust fund will be a secondary means of providing financial assurance, the initial payment into the standby trust fund will be at least the amount that the fund would contain if the trust fund were the primary financial assurance means (360.22(d)(1)(ii)(c)).

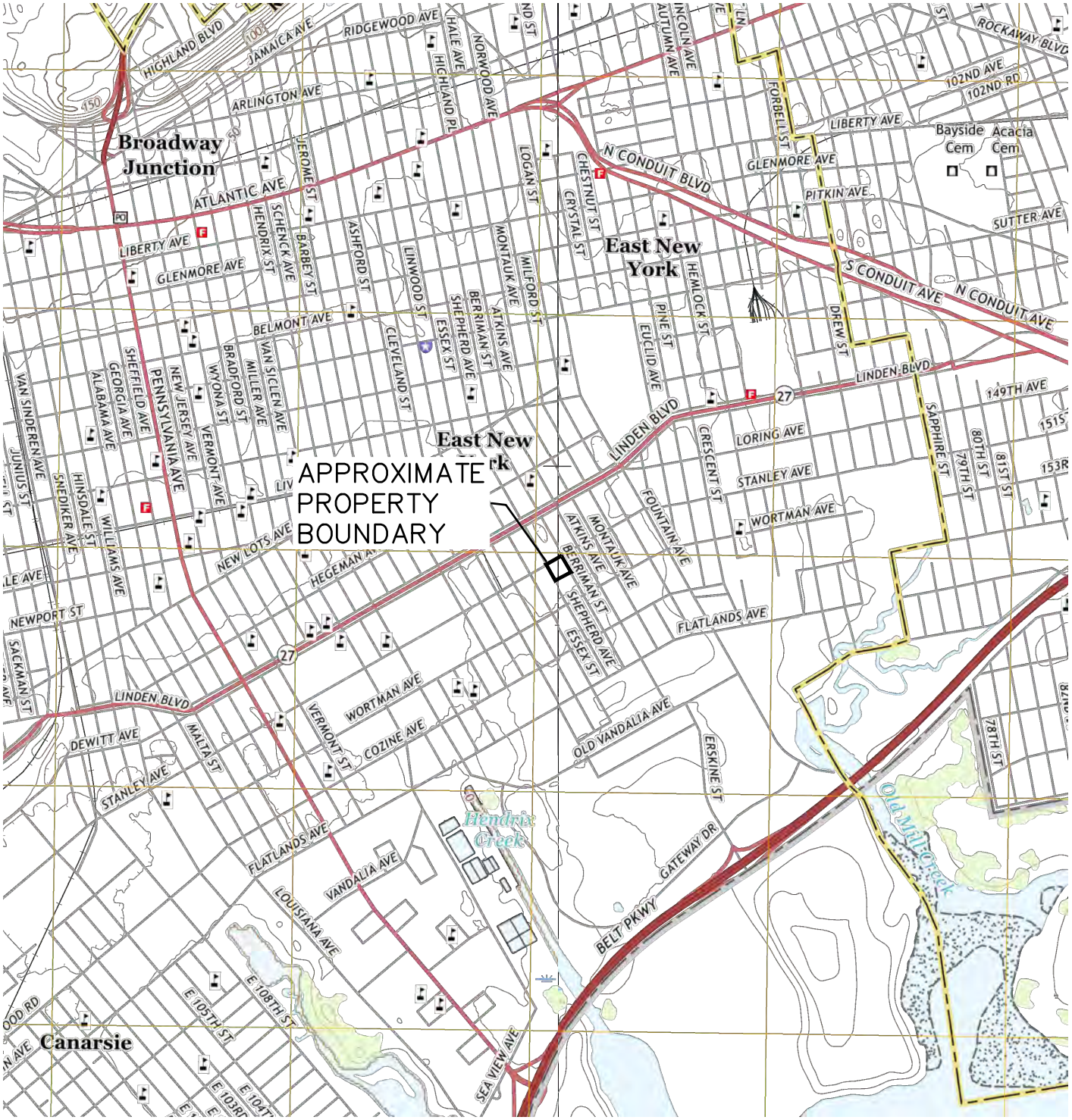
14.4 Wording of Instruments (360.22(e))

The proposed facility is located entirely within NYSDEC Region 2; therefore, the proposed facility will submit each original instrument to the NYSDEC Region 2 Director and a copy to the Director of the Division of Materials Management or successor administrative unit (360.22(e)(1)).

The standby trust fund and associated documents will be prepared in accordance with the format provided in 360.22(e)(3) (see Appendix J).

FIGURE 1

SITE LOCATION MAP



SOURCE: USGS 7.5 MINUTE QUADRANGLE - BROOKLYN, NY

EarthRes
ENGINEERING AND SCIENCE

6912 Old Easton Road
Pipersville, PA 18947 USA

8000 Combs Farm Drive
Morgantown, WV 26508

www.earthres.com

PA office 215.766.1211
WV office 304.212.6866
toll free 800.264.4553

DRAWN BY:	CHECKED BY:
NCM	DFA
DATE:	PROJECT NO:
02/05/2018	151015.003

DRAWING SCALE: 1" = 2000'

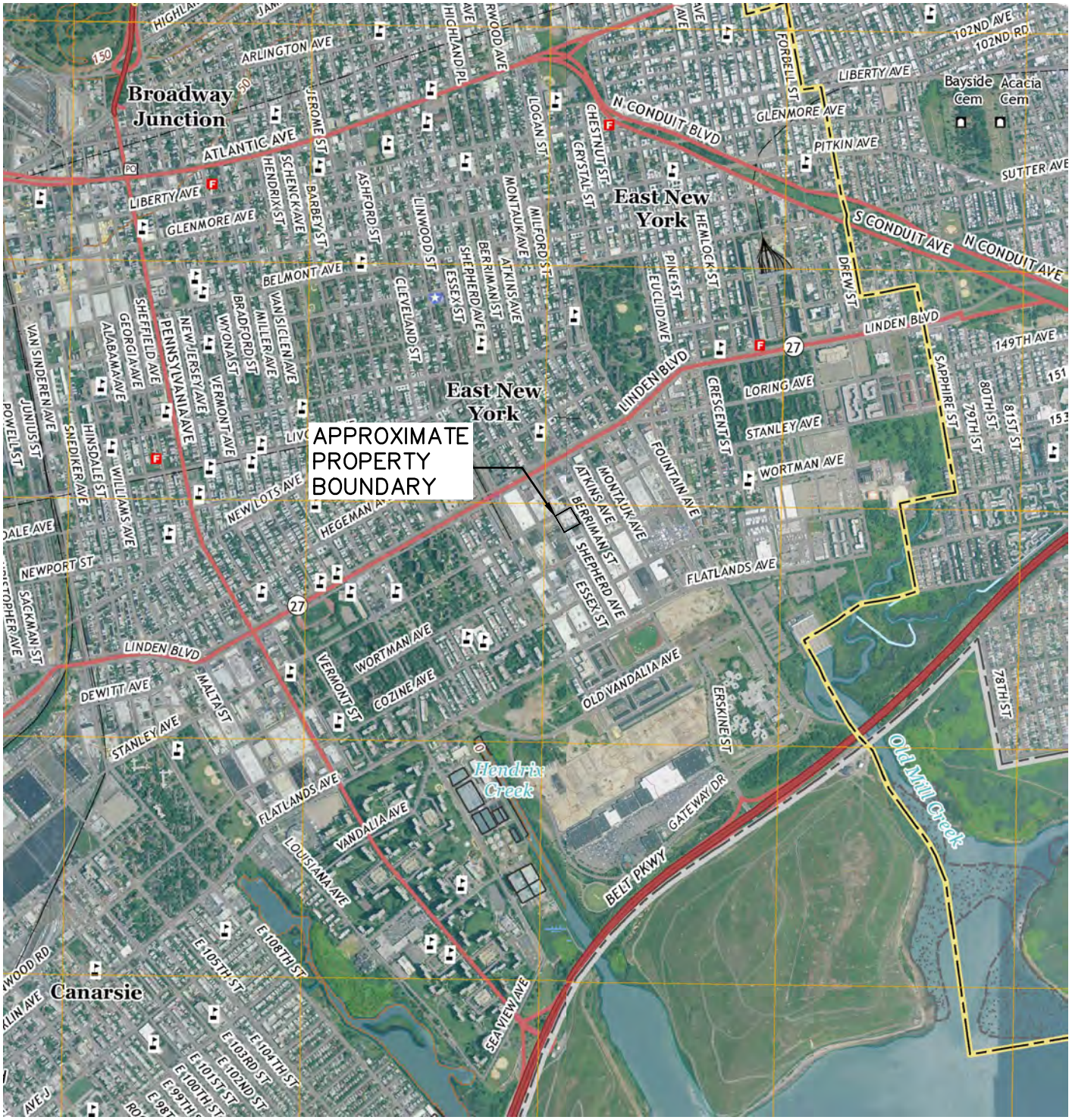
FIGURE 1
SITE LOCATION MAP

893 SHEPHERD AVENUE
BROOKLYN BOROUGH
KINGS COUNTY
NEW YORK

F:\PROJECTS\Sharps Compliance\151015.003 NY Transfer Station Permitting\CAD\Drawings\Rev 1\151015.003– Figure 1_R1.dwg Layout: A SIZE

FIGURE 1A

SITE LOCATION MAP



EarthRes
ENGINEERING AND SCIENCE
6912 Old Easton Road
Pipersville, PA 18947 USA
8000 Combs Farm Drive
Morgantown, WV 26508
www.earthres.com
PA office 215.766.1211
WV office 304.212.6866
toll free 800.264.4553

DRAWN BY:	CHECKED BY:
NCM	DFA
DATE:	PROJECT NO:
02/05/2018	151015.003

DRAWING SCALE: 1" = 2,000'

FIGURE 1A
SITE LOCATION MAP

893 SHEPHERD AVENUE
BROOKLYN BOROUGH
KINGS COUNTY
NEW YORK

F:\PROJECTS\Sharps Compliance\151015.003 NY Transfer Station Permitting\CAD\Drawings\Rev 1\151015.003– Figure 1_R1.dwg Layout: A SIZE

FIGURE 1B

SITE LOCATION MAP

LEGEND

- SCHOOL
- FIRE STATION
- POLICE STATION
- CEMETERY

SOURCE: USGS 7.5 MINUTE QUADRANGLE - BROOKLYN & JAMAICA, NY

EarthRes
ENGINEERING AND SCIENCE

6912 Old Easton Road
Pipersville, PA 18947 USA

8000 Combs Farm Drive
Morgantown, WV 26508

www.earthres.com

PA office 215.766.1211
WV office 304.212.6866
toll free 800.264.4553

DRAWN BY:	CHECKED BY:
DFA	TGP
DATE:	PROJECT NO:
02/05/2018	151015.003

DRAWING SCALE: 1" = 500'

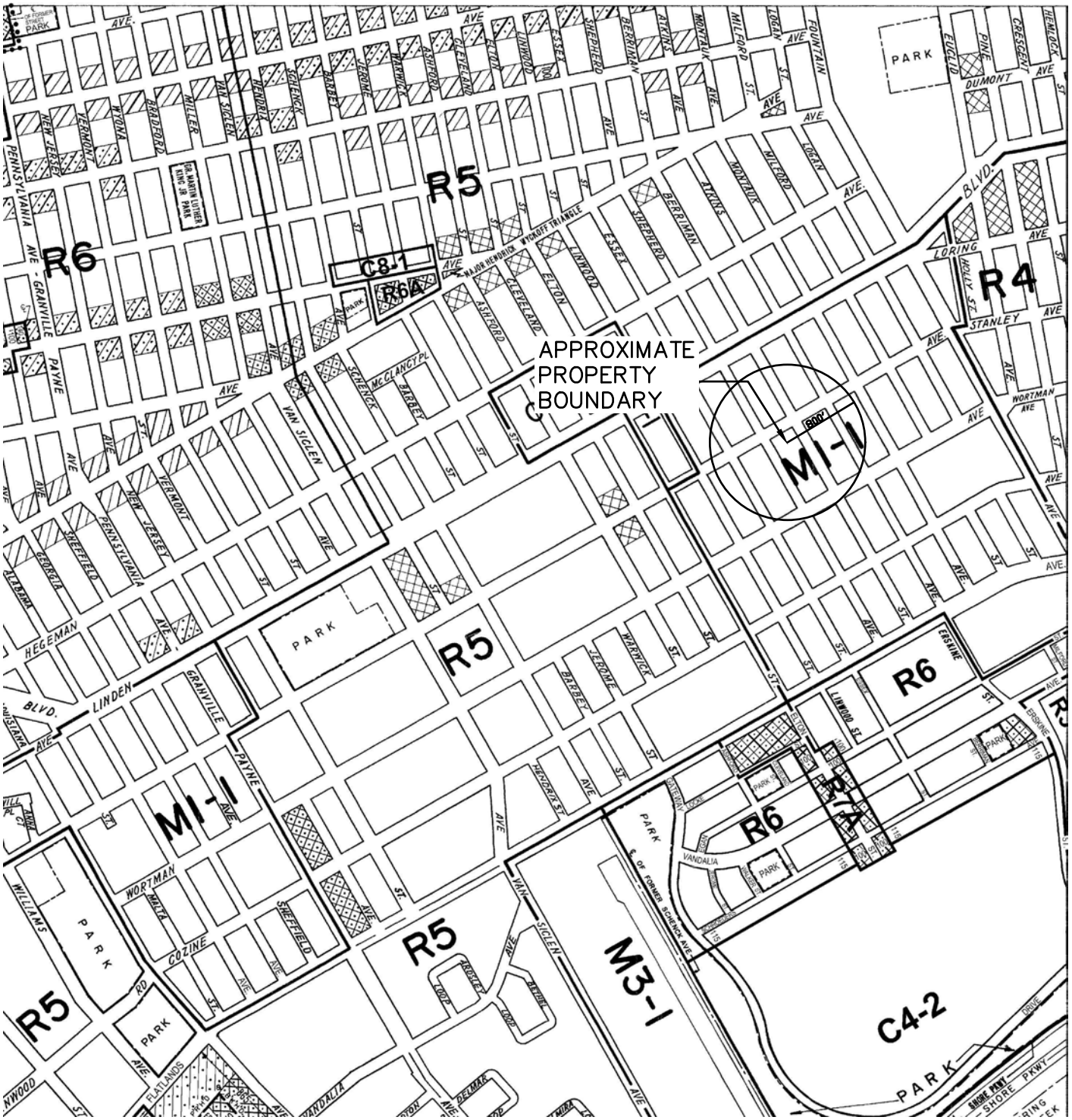
FIGURE 1B
SITE LOCATION MAP

893 SHEPHERD AVENUE
BROOKLYN BOROUGH
KINGS COUNTY
NEW YORK

F:\PROJECTS\Sharps Compliance\151015.003 NY Transfer Station Permitting\CAD\Drawings\Rev 1\151015.003– Figure 1_R1.dwg Layout: A SIZE

FIGURE 1C

SITE LOCATION MAP



LEGEND

R	RESIDENTIAL DISTRICT
C	COMMERCIAL DISTRICT
M	MANUFACTURING DISTRICT

SOURCE: NYC PLANNING COMMISSION, KINGS COUNTY, NY 2016

EarthRes
ENGINEERING AND SCIENCE

6912 Old Easton Road
Pipersville, PA 18947 USA

8000 Combs Farm Drive
Morgantown, WV 26508

www.earthres.com

PA office 215.766.1211
WV office 304.212.6866
toll free 800.264.4553

DRAWN BY: SP	CHECKED BY: TGP
DATE: 02/05/2018	PROJECT NO: 151015.003
DRAWING SCALE: 1" = 1,500'	

FIGURE 1C
SITE LOCATION MAP

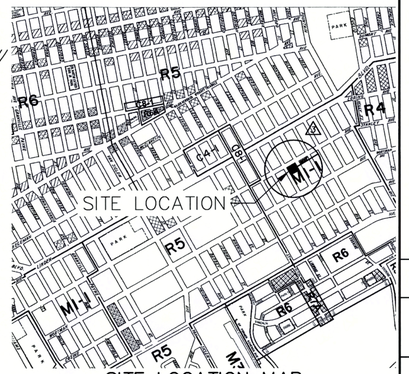
893 SHEPHERD AVENUE
BROOKLYN BOROUGH
KINGS COUNTY
NEW YORK

F:\PROJECTS\Sharps Compliance\151015.003 NY Transfer Station Permitting\CAD\Drawings\Rev 1\151015.003– Figure 1_R1.dwg Layout: A SIZE

DRAWING C-01

SITE PLAN

STANLEY AVENUE



SITE LOCATION MAP
SCALE: 1" = 2,000'
SOURCE: NYC PLANNING COMMISSION, KINGS COUNTY, NY 2016

"ONE WAY"
"STOP"
"BERRIMAN ST."
"STANLEY AVE."

11'–6½" | 166' | 163'–10"

RAMP | GRASS | 2'x2' VENT THROUGH WALL 5'–6" ABOVE GROUND | ROOF DRAIN | SIAMESE FIRE CONNECTION | CONC. WALK | DOOR | ELEC. PANEL ENCLOSURE | 2'–6" (TYP.)

8'–7½"

INLET (CLOGGED) | OFFICE | STORAGE AREA | DESIGNATED UNAUTHORIZED WASTE STORAGE AREA | STOP BAR

CONEDISON (MIN.) | 4' SIDEWALK TO DOOR | CONEDISON UNDERGROUND TRANSFORMER VAULT | STEEL GRATES | CONC. WALK | GRASS

4" ø STEEL COLUMN | 62'–7" | EXISTING THERMOSTAT | PILLAR (TYP.) | FORMER FLOOR DRAIN | FORMER FLOOR DRAIN | FORMER FLOOR DRAIN | EYEWASH STATION

"TRUCK LOADING ONLY MON–FRI 6AM TO 7PM STREET CLEANING MON–THURS. MIDNIGHT–3AM"

83'–5½" | 81'–8½" | SHEPHERD AVENUE

"NO STANDING EXCEPT TRUCK LOADING & UNLOADING 6AM–7PM MON. THROUGH FRI." "STREET CLEANING MIDNIGHT TO 3AM TUES. & FRI."

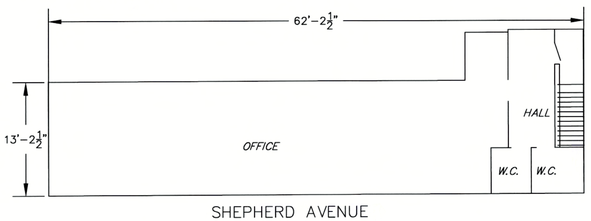
O.H. ROLLING DOOR | GAS METER | W.C. | SHOWER | HALL | TO SECOND FLOOR SEE DETAIL A–A | 27'–3" (TYP.) | FINISH FLOOR ASSUMED ELEV. 0.00 16.5' HIGH TO BOTTOM OF BEAM | 20'–9" (TYP.)

CONC. APRON | ROLLING DOOR 13.8' CLEARANCE | CONC. RAMP | BOTTOM OF RAMP | LEVEL CONC. | FINISH FLOOR | 19'–1" | STORAGE AREA | ROOF DRAIN | ROOF DRAIN

O.H. ROLLING DOOR | 10'–10" | NY DEP ACL APA WATER METER | O.H. ROLLING DOOR 13.5' CLEARANCE | CONC. APRON | SIAMESE FIRE CONNECTION | 8" RISER MECHANICAL ROOM | O.H. 8" LINE SLOPED STOP AT WALL | BERRIMAN STREET ONE WAY | EXISTING WATER SERVICE | EXISTING FIRE SERVICE | 77'–4"

"NO STANDING EXCEPT TRUCK LOADING & UNLOADING 6AM–7PM MON. THROUGH FRI." "STREET CLEANING MIDNIGHT TO 3AM TUES. & FRI."

SIAMESE FIRE CONNECTION | 24'–9" | 80'–10" | LOADING DECK | STEEL WALL (FORMER SLIDING DIVIDER) 83' | "TRUCK LOADING ONLY MON–FRI 6AM TO 7PM STREET CLEANING MON–THURS. MIDNIGHT–3AM"



SHEPHERD AVENUE

A–A / C01 SECOND FLOOR INSET DETAIL
SCALE = 1" = 10'

LEGEND

- EXISTING OVERHEAD SPRINKLER PIPE
- EXISTING OVERHEAD ROOF DRAIN
- EXISTING GAS SUPPLY
- EXISTING CURB
- EXISTING INLET
- EXISTING STREET TREE
- EXISTING MANHOLE
- EXISTING SPOT ELEVATION
- FORMER FLOOR DRAIN
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING CLEAN OUT
- STEEL COLUMN W/ BRICK VENEER
- EYE WASH STATION

NOTES:
1. BASE MAP PROPOSED FROM EARTHRES FIELD MEASUREMENT ON JULY 28, 2016 SUPPLEMENTED WITH GOOGLE EARTH IMAGING FROM 2015.
2. PERMIT BOUNDARY IS FACILITY EXTERIOR.

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

NO.	DATE	BY	REVISIONS
6	6/18/18	SP	REVISED FORMER FLOOR DRAIN LABELING
5	5/1/18	SP	REVISED SLIDING DOOR LABELING
4	2/5/18	SP	ADDED 800' PERIMETER (360.16(c)(2))
3	2/5/18	SP	REVISED OPERATING HOURS
2	9/12/17	JJB	REVISED PER NYSDEC COMMENTS

APPROVED BY:
ROBERT C. DENEWORTH * STATE * LICENSED PROFESSIONAL ENGINEER * 092602
HOWARD SHAW, P.E.
LICENSE NO. 092602–1

PREPARED FOR: SHARPS Compliance, Inc.

PREPARED BY: EarthRes ENGINEERING AND SCIENCE
P.O. Box 468
6912 Old Easton Road
Pipersville, PA 18947 USA
118562 Pineview Drive
Morgantown, WV 26505
www.earthres.com
PA office 215.766.1211
WV office 304.212.6896
toll free 800.264.4553

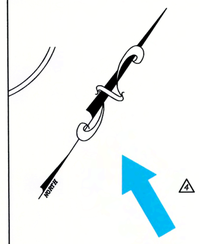
SITE PLAN
TRANSFER STATION

SHARPS COMPLIANCE, INC.
893 SHEPHERD AVENUE
BROOKLYN, NEW YORK 11208

DRAWN BY:	CHECKED BY:
JJB	TOP
DATE:	PROJECT NO:
09–13–16	15105.003
DRAWING NUMBER:	SHEET 1 OF 2
C–01	

DRAWING C-02

OPERATIONS PLAN



STANLEY AVENUE

SITE LOCATION MAP
SCALE: 1" = 2,000'
SOURCE: NYC PLANNING COMMISSION, KINGS COUNTY, NY 2016

"ONE WAY"
"STOP"
"BERRIMAN ST."
"STANLEY AVE."

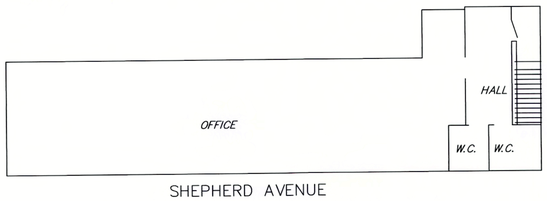
RAMP
GRASS
CONC. WALK
DOOR
OFFICE
WASTE STORAGE AREA 1
POTENTIAL STORAGE = 2,745 ft²
1,072 CONTAINERS/LAYER
VOLUME OF CONTAINER = 28 GAL (0.14 CY)
TOTAL POTENTIAL VOLUME (3 LAYERS) = 450.24 CY
PILLAR (TYP.)
DESIGNATED UNAUTHORIZED WASTE STORAGE AREA
EYEWASH STATION
SCALE
STOP BAR
"TRUCK LOADING ONLY MON–FRI 6AM TO 7PM STREET CLEANING MON–THURS. MIDNIGHT–3AM"
4' SIDEWALK TO DOOR
STEEL GRATES
SHEPHERD AVENUE
"NO STANDING EXCEPT TRUCK LOADING & UNLOADING 6AM–7PM MON. THROUGH FRI." "STREET CLEANING MIDNIGHT TO 3AM TUES. & FRI."
O.H. ROLLING DOOR
GAS METER
W.C.
SHOWER
HALL
TO SECOND FLOOR SEE SECOND FLOOR INSET DETAIL (A/C-02)
DOCK 1 (REFRIGERATED TRANSFER TRAILER)
CONC. RAMP
LEVEL CONC.
BOTTOM OF RAMP
FINISH FLOOR
DOCK 2 (REFRIGERATED TRANSFER TRAILER)
ROLLING DOOR CLEARANCE 13.8'
LOADING DOCK
SIAMESE FIRE CONNECTION
WASTE STORAGE AREA 2
POTENTIAL STORAGE = 2,392 ft²
934 CONTAINERS/LAYER
VOLUME OF CONTAINER = 28 GAL (0.14 CY)
TOTAL POTENTIAL VOLUME (3 LAYERS) = 392.28 CY
STEEL WALL (FORMER SLIDING DIVIDER)
(DELIVERY VEHICLE)
O.H. ROLLING DOOR 13.5' CLEARANCE
MECHANICAL ROOM
BERRIMAN STREET ONE WAY
EXISTING WATER SERVICE
EXISTING FIRE SERVICE

RMW Weight	Tons	Pounds
Annual	12,500	25,000,000
Daily	48	96,000
72 Hours	144	288,000
Avg Container Weight	50 lb	
Container Floor Area	2.56 sq ft	
No. of Containers/Layer	1,920	
Total Floor Space Required (containers stacked 3 high)	**4,915.20** sq ft	
Volume of Container	28 gallons	
Volume of Container	0.14 Cubic Yards	
Total Volume Required (containers stacked 3 high)	**806.40** Cubic Yards	

LEGEND
- PHARMACEUTICALS
- TRACE CHEMO
- RMW & SHARPS
- UNACCEPTABLE
- RADIATION DETECTOR
- EYE WASH STATION
- INCOMING MATERIAL FLOW PATH
- OUTGOING MATERIAL FLOW PATH
- FLOOR DEMARCATION LINE
- PREVAILING WIND DIRECTION

NOTES:
1. BASE MAP PROPOSED FROM EARTHRES FIELD MEASUREMENT ON JULY 28, 2016 SUPPLEMENTED WITH GOOGLE EARTH IMAGING FROM 2015.
2. PERMIT BOUNDARY IS FACILITY EXTERIOR.
3. PREVAILING WIND DIRECTION DETERMINED USING THE NATURAL RESOURCE CONSERVATION SERVICE (NRCS) WIND ROSE DATASET FOR NEW YORK, NEW YORK. NOTE ONLY DATA FROM YEAR 2003 IS LISTED IN THE AVAILABLE DATASET.

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.



A/C-02 SECOND FLOOR INSET DETAIL
SCALE = 1" = 10'

NO.	DATE	BY	REVISIONS
1	9/12/17	JJB	REVISED PER NYSDEC COMMENTS
2	2/5/18	SP	REVISED OPERATING HOURS
3	2/5/18	SP	ADDED 800' PERIMETER (360.16(c)(2))
4	2/5/18	SP	ADDED PREVAILING WIND (360.16(c)(2))
5	5/1/18	SP	ADDED MAXIMUM STORAGE VOLUME
6	5/1/18	SP	REVISED SLIDING DOOR LABELING

APPROVED BY:
HONG SIMA, PH.D., P.E.
LICENSE NO. 082602-1

PREPARED FOR:
SHARPS Compliance, Inc.

PREPARED BY:
EarthRes ENGINEERING AND SCIENCE
P.O. Box 468
6912 Old Easton Road
Pipersville, PA 18947 USA
118652 Pinerview Drive
Morgantown, WV 26505
www.earthres.com
PA office 215.766.1211
WV office 304.212.8566
toll free 800.294.4553

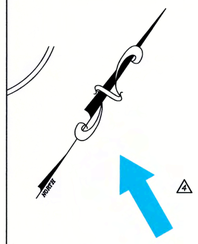
OPERATIONS PLAN
TRANSFER STATION

SHARPS COMPLIANCE, INC.
893 SHEPHERD AVENUE
BROOKLYN, NEW YORK 11208

DRAWN BY:	CHECKED BY:	PROJECT NO:	DRAWING NUMBER:	SHEET 2 OF 2
JJB	TGP	151015.003	C-02	
DATE: 09-13-16				

DRAWING C-03

QUEUEING SITE PLAN

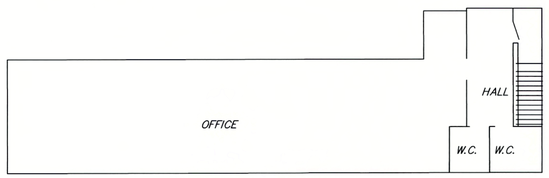


STANLEY AVENUE

SITE LOCATION MAP
SCALE: 1" = 2,000'
SOURCE: NYC PLANNING COMMISSION, KINGS COUNTY, NY 2016

"ONE WAY" "STOP" "BERRIMAN ST. STANLEY AVE."

RAMP
GRASS
CONC. WALK
DOOR
OFFICE
WASTE STORAGE AREA 1
POTENTIAL STORAGE = 2,745 ft²
1,072 CONTAINERS/LAYER
VOLUME OF CONTAINER = 28 GAL (0.14 CY)
TOTAL POTENTIAL VOLUME (3 LAYERS) = 450.24 CY
PILLAR (TYP.)
(DELIVERY VEHICLE)
DESIGNATED UNAUTHORIZED WASTE STORAGE AREA
EYEWASH STATION
SCALE
STOP BAR
"TRUCK LOADING ONLY MON–FRI 6AM TO 7PM STREET CLEANING MON–THURS. MIDNIGHT–3AM"
4' SIDEWALK TO DOOR
STEEL GRATES
SHEPHERD AVENUE
"NO STANDING EXCEPT TRUCK LOADING & UNLOADING 6AM–7PM MON. THROUGH FRI." "STREET CLEANING MIDNIGHT TO 3AM TUES. & FRI."
GAS METER
O.H. ROLLING DOOR
W.C.
SHOWER
HALL
TO SECOND FLOOR SEE SECOND FLOOR INSET DETAIL (A/C-02)
DOCK 1 (REFRIGERATED TRANSFER TRAILER)
DOCK 2 (REFRIGERATED TRANSFER TRAILER)
CONC. RAMP
BOTTOM OF RAMP
LEVEL CONC.
FINISH FLOOR
ROLLING DOOR 13.3' CLEARANCE
SIAMESE FIRE CONNECTION
LOADING DOCK
WASTE STORAGE AREA 2
POTENTIAL STORAGE = 2,392 ft²
934 CONTAINERS/LAYER
VOLUME OF CONTAINER = 28 GAL (0.14 CY)
TOTAL POTENTIAL VOLUME (3 LAYERS) = 392.28 CY
STEEL WALL (FORMER SLIDING DIVIDER)
MECHANICAL ROOM
O.H. ROLLING DOOR 13.5' CLEARANCE
BERRIMAN STREET ONE WAY
EXISTING WATER SERVICE
EXISTING FIRE SERVICE



A/C-02 SECOND FLOOR INSET DETAIL
SCALE = 1" = 10'

RMW Weight	Tons	Pounds
Annual	12,500	25,000,000
Daily	48	96,000
72 Hours	144	288,000
Avg Container Weight	50	lb
Container Floor Area	2.56	sq ft
No. of Containers/Layer	1,920	
Total Floor Space Required (containers stacked 3 high)	**4,915.20**	sq ft
Volume of Container	28	gallons
Volume of Container	0.14	Cubic Yards
Total Volume Required (containers stacked 3 high)	**806.40**	Cubic Yards

LEGEND
- PHARMACEUTICALS
- TRACE CHEMO
- RMW & SHARPS
- UNACCEPTABLE
- RADIATION DETECTOR
- EYE WASH STATION
- INCOMING MATERIAL FLOW PATH
- OUTGOING MATERIAL FLOW PATH
- FLOOR DEMARCATION LINE
- PREVAILING WIND DIRECTION

NOTES:
1. BASE MAP PROPOSED FROM EARTHRES FIELD MEASUREMENT ON JULY 28, 2016 SUPPLEMENTED WITH GOOGLE EARTH IMAGING FROM 2015.
2. PERMIT BOUNDARY IS FACILITY EXTERIOR.
3. PREVAILING WIND DIRECTION DETERMINED USING THE NATURAL RESOURCE CONSERVATION SERVICE (NRCS) WIND ROSE DATASET FOR NEW YORK, NEW YORK. NOTE ONLY DATA FROM YEAR 2003 IS LISTED IN THE AVAILABLE DATASET.
4. SHARPS WILL STAGGER ARRIVAL OF COLLECTION VEHICLES TO PREVENT ANY BACK UP OF BOX TRUCKS REQUIRING UNLOADING. THEREFORE, IT IS ANTICIPATED THAT ONLY FIVE DELIVERY TRUCKS WILL EVER BE ONSITE AT ANYONE TIME FOR ABSOLUTE WORST CASE.

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

NO.	DATE	BY	REVISIONS
1	5/1/18	SP	REVISED SLIDING DOOR LABELING
2	5/1/18	SP	ADDED MAXIMUM STORAGE VOLUME
3	4/10/18	SP	ADDED QUEUED DELIVERY TRUCKS
4	2/5/18	SP	ADDED PREVAILING WIND (360.16(c)(2))
5	2/5/18	SP	ADDED 800' PERIMETER (360.16(c)(2))
6	2/5/18	SP	REVISED OPERATING HOURS
7	9/12/17	JJB	REVISED PER NYSDEC COMMENTS

APPROVED BY: NEW YORK STATE LICENSED PROFESSIONAL ENGINEER HONG SUK PARK, P.E. LICENSE NO. 082602-1

PREPARED FOR: SHARPS Compliance, Inc.

PREPARED BY: EarthRes ENGINEERING AND SCIENCE
P.O. Box 468, 6912 Old Easton Road, Pipersville, PA 18947 USA
118652 Pineview Drive, Morgantown, WV 26505
www.earthres.com
PA office 215.766.1211
WV office 304.212.8866
toll free 800.254.4553

QUEUEING SITE PLAN
TRANSFER STATION

SHARPS COMPLIANCE, INC.
893 SHEPHERD AVENUE
BROOKLYN, NEW YORK 11208

DRAWN BY: JJB
CHECKED BY: TGP
DATE: 09-13-16
PROJECT NO: 15105.003
DRAWING NUMBER: C-03
SHEET 2 OF 2

DRAWING C-04

TRUCK STAGING SITE PLAN

NORTH

STANLEY AVENUE

SITE LOCATION MAP
SCALE: 1" = 2,000'
SOURCE: NYC PLANNING COMMISSION, KINGS COUNTY, NY 2016

"ONE WAY"
"STOP"
"BERRIMAN ST."
"STANLEY AVE."

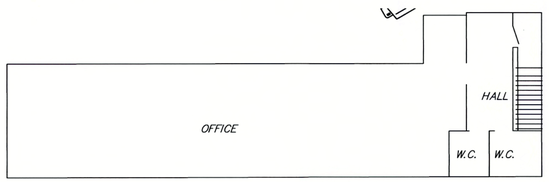
RAMP
GRASS
CONC. WALK
DOOR
DESIGNATED UNAUTHORIZED WASTE STORAGE AREA
OFFICE
WASTE STORAGE AREA 1
POTENTIAL STORAGE = 2,745 ft²
1,072 CONTAINERS/LAYER
VOLUME OF CONTAINER = 28 GAL (0.14 CY)
TOTAL POTENTIAL VOLUME (3 LAYERS) = 450.24 CY
(STAGED DELIVERY VEHICLE)
PILLAR (TYP.)
STOP BAR
"TRUCK LOADING ONLY MON–FRI 6AM TO 7PM STREET CLEANING MON–THURS. MIDNIGHT–3AM"
4' SIDEWALK TO DOOR
STEEL GRATES
SHEPHERD AVENUE
EYEWASH STATION
SCALE
GAS METER
O.H. ROLLING DOOR
W.C.
SHOWER
HALL
"NO STANDING EXCEPT TRUCK LOADING & UNLOADING 6AM–7PM MON. THROUGH FRI." "STREET CLEANING MIDNIGHT TO 3AM TUES. & FRI."
DOCK 1 (REFRIGERATED TRANSFER TRAILER)
CONC. RAMP
BOTTOM OF RAMP
LEVEL CONC.
FINISH FLOOR
DOCK 2 (REFRIGERATED TRANSFER TRAILER)
ROLLING DOOR 13.5' CLEARANCE
SIAMESE FIRE CONNECTION
LOADING DOCK
TO SECOND FLOOR SEE SECOND FLOOR INSET DETAIL (A/C-02)
WASTE STORAGE AREA 2
POTENTIAL STORAGE = 2,392 ft²
934 CONTAINERS/LAYER
VOLUME OF CONTAINER = 28 GAL (0.14 CY)
TOTAL POTENTIAL VOLUME (3 LAYERS) = 392.28 CY
STEEL WALL (FORMER SLIDING DIVIDER)
MECHANICAL ROOM
Ø.H. ROLLING DOOR 13.5' CLEARANCE
BERRIMAN STREET ONE WAY
EXISTING WATER SERVICE
EXISTING FIRE SERVICE
"TRUCK LOADING ONLY MON–FRI 6AM TO 7PM STREET CLEANING MON–THURS. MIDNIGHT–3AM"

RMW Weight	Tons	Pounds
Annual	12,500	25,000,000
Daily	48	96,000
72 Hours	144	288,000
Avg Container Weight	50 lb	
Container Floor Area	2.56 sq ft	
No. of Containers/Layer	1,920	
Total Floor Space Required (containers stacked 3 high)	**4,915.20** sq ft	
Volume of Container	28 gallons	
Volume of Container	0.14 Cubic Yards	
Total Volume Required (containers stacked 3 high)	**806.40** Cubic Yards	

LEGEND
- PHARMACEUTICALS
- TRACE CHEMO
- RMW & SHARPS
- UNACCEPTABLE
- RADIATION DETECTOR
- EYE WASH STATION
- INCOMING MATERIAL FLOW PATH
- OUTGOING MATERIAL FLOW PATH
- FLOOR DEMARCATION LINE
- PREVAILING WIND DIRECTION

NOTES:
1. BASE MAP PROPOSED FROM EARTHRES FIELD MEASUREMENT ON JULY 28, 2016 SUPPLEMENTED WITH GOOGLE EARTH IMAGING FROM 2015.
2. PERMIT BOUNDARY IS FACILITY EXTERIOR.
3. PREVAILING WIND DIRECTION DETERMINED USING THE NATURAL RESOURCE CONSERVATION SERVICE (NRCS) WIND ROSE DATASET FOR NEW YORK, NEW YORK. NOTE ONLY DATA FROM YEAR 2003 IS LISTED IN THE AVAILABLE DATASET.
4. TRUCK STAGING LOCATIONS DURING NON–OPERATIONAL HOURS.

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.



A/C-02 SECOND FLOOR INSET DETAIL
SCALE = 1" = 10'

NO.	DATE	BY	REVISIONS
1	5/1/18	SP	REVISED SLIDING DOOR LABELING
2	5/1/18	SP	ADDED MAXIMUM STORAGE VOLUME
3	4/10/18	SP	ADDED STAGED DELIVERY TRUCKS
4	2/5/18	SP	ADDED PREVAILING WND (360.16(c)(2))
5	2/5/18	SP	ADDED 800' PERIMETER (360.16(c)(2))
6	2/5/18	SP	REVISED OPERATING HOURS
7	9/12/17	JJB	REVISED PER NYSDEC COMMENTS

APPROVED BY:
STATE OF NEW YORK * MICHAEL SIMON HONEYCHURCH * 095880 * LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 095880-1

PREPARED FOR:
SHARPS Compliance, Inc.

PREPARED BY:
EarthRes ENGINEERING AND SCIENCE
P.O. Box 468, 6912 Old Easton Road, Pipersville, PA 18947 USA
118962 Pineview Drive, Morgantown, WV 26505
www.earthres.com
PA office 215.766.1211
WV office 304.212.8886
toll free 800.254.4553

TRUCK STAGING SITE PLAN
TRANSFER STATION

SHARPS COMPLIANCE, INC.
893 SHEPHERD AVENUE
BROOKLYN, NEW YORK 11208

DRAWN BY:	CHECKED BY:
JJB	TGP
DATE:	PROJECT NO:
09-13-16	151015.003

DRAWING NUMBER: C-04

SHEET 2 OF 2

APPENDIX A

HEALTH AND SAFETY POLICY

HEALTH AND SAFETY POLICY

Sharps Compliance, Inc. is committed to providing a safe and healthy workplace for its employees. OSHA regulates employee safety and health of employees in the workplace through a variety of regulations. Even if there is not a specific regulation that covers a potentially unsafe situation, the General Duty Clause included in the OSH Act, allows OSHA to cite facilities if it is determined that there is an employee safety hazard present of which the employer should have known, and abatement of that hazard is feasible. The facility maintains a Health and Safety Policy Document and provides annual training for all facility employees.

APPENDIX B

RADIATION MONITORING PLAN

APPENDIX B
RADIATION MONITORING PLAN

I. Radioactive Waste Detection Plan (365-2.4(b)(1)(i))

The following radioactive waste detection plan includes procedures for detecting prohibited radioactive material; operation and maintenance documents for radiation detectors including investigation alarm set point settings and calibration methods; and response procedures to be implemented when radioactive waste is detected:

1. Responsibilities

1.1 The Plant Manager has overall responsibility for the implementation of the Radioactive Waste Control Procedures for incoming material to the facility. The Plant Manager shall also provide technical assistance and support on matters pertaining to radioactive wastes.

1.2 The general workforce is responsible for carrying out the procedures and practices outlined in this document regarding the identification, segregation, and notification procedures for radioactive waste.

2. Safe Work Practices

2.1 Do not expose yourself more than necessary to potentially radioactive materials, hazardous wastes, and regulated medical wastes.
2.2 Don personal protective equipment (PPE) as described in further sections.
2.3 Do not wander around offices, lunch rooms, and other meeting places while wearing contaminated PPE.
2.4 Wash your hands with soap and water after removing PPE.
2.5 Once identified and if necessary, segregate radioactive wastes from other waste. Do not mix any radioactive wastes with other wastes, and store them separately.
2.6 Report any injuries and/or illnesses to your supervisor.

3. Identification, Segregation and Handling Procedures for Identified Radioactive Materials

The following section describes procedures for the identification, segregation and handling for radioactive wastes. All containers being unloaded shall pass between the radiation monitors at the loading and unloading dock.

4. Visual Inspection:

Each load is visually inspected to determine if there are any unacceptable materials in the load. If the workers feel that there may be radioactive material in the load that was not detected by the radiation detectors, then contact the Plant Manager or designee for further guidance.

5. Response Procedure

5.1 Truck sets off alarm before waste is unloaded

It is possible, but rare that an alarm will be caused by a truck when it is parking at the unloading dock. This can be due to three possible causes:

- nuisance alarm not associated with the truck,
- a driver who has had a nuclear medicine procedure and is himself radioactive, or
- an elevated radiation level from a waste container on the truck. If this occurs, a worker noting the alarm shall immediately call the plant manager and indicate that an alarm has occurred before waste has been unloaded. No unloading of waste is to occur until the vehicle has been surveyed. Production workers shall remain at least 10 feet away from the truck to keep their radiation dose ALARA. The plant manager shall check the 375P console to make sure the alarm is a radiation alarm and not a system alarm, and record the alarm count rate.

5.1.1 Have the truck driven to the holding area. Reset the alarm on the 375P to silence the alarm. If the alarm reoccurs, move the truck farther from the dock area. If the alarm continues when the truck is at least 200 feet from the dock, it is likely the cause is a nuisance alarm not

associated with the truck or the driver. However, it will still be necessary to survey the truck and the driver.

5.1.2 The plant manager shall put on required PPE safety related items (including gloves), obtain the survey meter and proceed to the dock area without delay. Check the calibration date of the instrument and make sure the calibration date has not been exceeded – do not use if the calibration date had been exceeded. Turn on the instrument and observe the background reading – it should not exceed 0.01 mR/hr. Approach the vehicle; making use of the audio function, determine when the radiation level is increasing. Approach the driver and note if there is an increase in the radiation level when you are at the cab. If so ask the driver if he/she has had a recent nuclear medicine procedure. If so, ask the driver to exit the cab and move away from the vehicle at least 50 feet – resurvey the driver at this location. If the driver is the source of the elevated radiation levels, record the radiation levels on the Truck Survey Form – show the readings as being in the cab and mark the word, "Driver" on the form. Make sure you record your name, the date and time of the survey, the model and serial number of the survey meter, the date of calibration of the survey meter and other pertinent information on the form.

5.1.3 If the driver is not the source of the radiation, begin slowly surveying the truck sides and rear. If an area on the truck is found with elevated radiation levels, record the radiation levels on the Truck Survey Form, showing the location on one of the sketches. If the radiation level exceeds 50 mR/hr, recommend the driver not remain at the truck. This is a Level 2 event and the PA DEP and HPA shall be notified.

5.1.4 If the cause of the alarm is not due to the driver or the truck, there are no system alarms, and the alarms continue, it is likely a nuisance alarm due to industrial radiography being performed in the area. The 375-30 will likely keep going into alarm in this case each time it is reset until the radiography is stopped. Keep resetting the 375-30 until the alarms stop. Do not begin unloading the truck until the alarm stops. You can check if this is the problem with the survey meter. Turn it on its lowest scale and observe if the background is higher than normal.

5.2 <u>Waste Caused Alarm</u>

5.1.5 When an alarm occurs the Ludlum model 375P will activate both audible and visible alarms on the 375P controller. The audible signal will be loud enough to be heard by the worker pushing the waste. The production worker shall immediately divert the waste container to the temporary survey area and contact the plant manager or designee. All workers shall remain at least 10 feet away from the container to keep his/her radiation dose ALARA.

5.1.6 The plant manager shall put on normal safety related items (including gloves), obtain the survey meter and proceed to the dock area without delay. Check the calibration date of the instrument and make sure the calibration date has not been exceeded – do not use if the calibration date had been exceeded. Turn on the survey meter and take a background measurement several feet from the suspect waste container and record the reading on the Container Survey Form (it should not exceed 10 μR/hr). If it does, move farther from the waste container. Approach the container; making use of the audio function, determine when the radiation level is increasing. Survey up and down each side of the waste container to obtain the maximum reading – mark an "X" at this spot on the container and record this reading on the Container Survey Form. Make sure you record your name, the date and time of the survey, the model and serial number of the survey meter, the date of calibration of the survey meter.

5.1.7 If the waste measures greater than 50 mR/hr at any point on the surface, this is a Level 2 event and NYSDEC shall be notified, immediately. Move the waste container to a remote location of the building and place caution tape around the container where the radiation readings are less than 500 μR/hr. Mark the area of the container having the maximum reading. Record the reading on the Container Survey Form.

5.1.8 If the waste measures less than 50 mR/hr at all point on the surface, mark an "X" at the spot of the highest reading. Use the survey detector to identify the radionuclide. Record the reading and the radionuclide identity on the Container Survey Form.

5.1.9 Once the identity of the radionuclide is known you can determine if it meets the criteria for acceptance (medically derived radionuclides with a half-life less than 65 days).

5.1.10 If it does not meet the criteria, use table 1 bellow for emergency contact.

5.1.11 Take a piece of paper towel and wipe at least 100 square centimeters (approximately a 4 by 4 inch square) of the exterior of the container at locations likely to show leakage from the interior.

5.1.12 Move away from the container to a location where you are obtaining background readings (≤ 10 uR/hr), hold the paper towel within 1 centimeter of the detector of the survey meter and observe the reading. If it exceeds 100 cpm above background, cover the container with a plastic bag. Rope off the area with Caution tape.

5.1.13 If the reading does not exceed 100 cpm above background, consider the container to be free of removable contamination. The container can then be placed back on the truck for return to the generator.

II. DESCRIPTION OF MONITORING SYSTEM (365-2.5(b))

1. A Ludlum model 375P or equivalent will be located at both RMW loading and unloading areas inside the building. The Ludlum model 375P uses a Ludlum model 375 electronics package that has been installed at many waste facilities in the State of New York and elsewhere. The distance between the detectors will be approximately 8 feet. The maximum speed through the detection area will not exceed 3 miles per hour. In the event the primary system is not functional, the waste containers will be surveyed using a hand-held survey meter, such as a Ludlum model 3 with a 44-9 detector or a similar device from another manufacturer. In the event that the handheld monitor is used, each package will remain stationary and will be monitored for a minimum of 3 seconds per package, as requested by the NYSDEC. The detectors of the fixed monitoring system will be oriented with the 3 inch diameter face facing the waste. Since these systems are used at landfills and transfer stations for trucks with cargo heights of 8 to 10 feet, they will be suitable for smaller transporters.

   The 375 computer controller contains the readout and the visual and audible signals in the event of an alarm. It will be located in the area of the detectors so that the person handling the RMW containers will be able to hear the audible alarm. The alarm will be set at least two times but not greater five times background radiation levels.

   The audible alarm is sufficiently loud to be heard by the person handling RMW containers above the noise level in the area. Once an alarm occurs, the waste container will be diverted to a temporary holding area and the plant manager or assistant plant manager will begin surveying the suspect container(s) to locate the one causing the alarm. This container will be isolated in the temporary storage area to allow the continuation of scanning other waste and not create an increased background. The Ludlum model 375P has a "latching" feature that stops adding counts to the background as soon as an alarm occurs (including the count cycle causing the alarm) to prevent an increase in background. The fixed radiation monitor will be calibrated upon installation and annually by the manufacturer using source traceable to NIST and calibration records will be maintained at the facility.

2. DESCRIPTION OF PORTABLE SURVEY METERS A Ludlum model 192 detector (or similar device from another manufacturer) to perform an initial survey of the vehicle and/or RMW containers and count a wipe test of the waste containers. Portable detector is calibrated annually by the manufacturer using source traceable to NIST.

III. Alarm Setpoint (365-2.5(b)(1))

The alarm will be set at least two times but not greater five times background radiation levels.

IV. Radiation Concentration Levels (365-2.5(b)(2))

The concentration in any waste received will not exceed background radiation levels. The audible alarm is sufficiently loud to be heard by the person handling any waste above the noise level in the area. Once an alarm occurs, the waste container will be diverted to a temporary holding area and the plant manager or assistant plant manager will begin surveying the suspect container(s) to locate the one causing the alarm. This container will be isolated in the temporary storage area to allow the continuation of scanning other waste and not create an increased background. The Ludlum model 375P has a "latching" feature that stops adding counts to the background as soon as an alarm occurs (including the count cycle causing the alarm) to prevent an increase in background. The fixed radiation monitor will be calibrated upon installation and annually by the manufacturer using source traceable to NIST and calibration records will be maintained at the facility.

V. Background Radiation Readings (365-2.5(b)(3))

Background radiation readings will be recorded daily using form Ludlum 375 Daily System Check.

VI. Field Checks (365-2.5(b)(4))

Field checks of the fixed radiation detector will be performed and recorded utilizing a known radiation source at minimum weekly and using form Ludlum 375 Daily System Check.

VII. Calibration (365-2.5(b)(4)(i))

Both fixed and portable radiation detector will be calibrated upon installation and annually by the manufacturer using source traceable to NIST and calibration records will be maintained at the facility.

VIII. Notification of Radiation Detected (365-2.5(b)(4)(ii))

At Sharps, in order for a load to be accepted, the hauler must have received both in-bound and out- bound tickets. Sharps reserves the right to reject any suspicious loads and any loads containing wastes not authorized by the facility's permit.

The Plant Manager or designee is notified. The Unauthorized Waste Report (UWR) form must be completely filled out paying close attention to filling out the name of the driver, the generator, manifest number, the truck's plate number, the reading on the radiation detector, the times that the generator was informed, and the evidence taken by any party (write "Unknown" for data not obtained). The Plant Manager or designee must notify the NYSDEC by next business day for each instance in which the radiation detector is triggered by waste.

Emergency Contacts Table 1.

AGENCY	PHONE NUMBER
Region 2 New York City Unauthorized Waste Incident Contact Numbers	
NYSDEC Region 2 Solid Waste	718-482-4996
NYSDEC Region 2 Enforcement	718-482-4507
Region 2, Materials Management Supervisor	718-482-4896
NYSDEC-Radiation Division	518-402-8579

Sharps Contacts Table 2.

Name	Work NO.	Cell NO.
Plant Manager	TBD	TBD
V.P. of Quality (Corporate)	TBD	TBD
Environmental Health & Safety (Corporate)	TBD	TBD

Forms

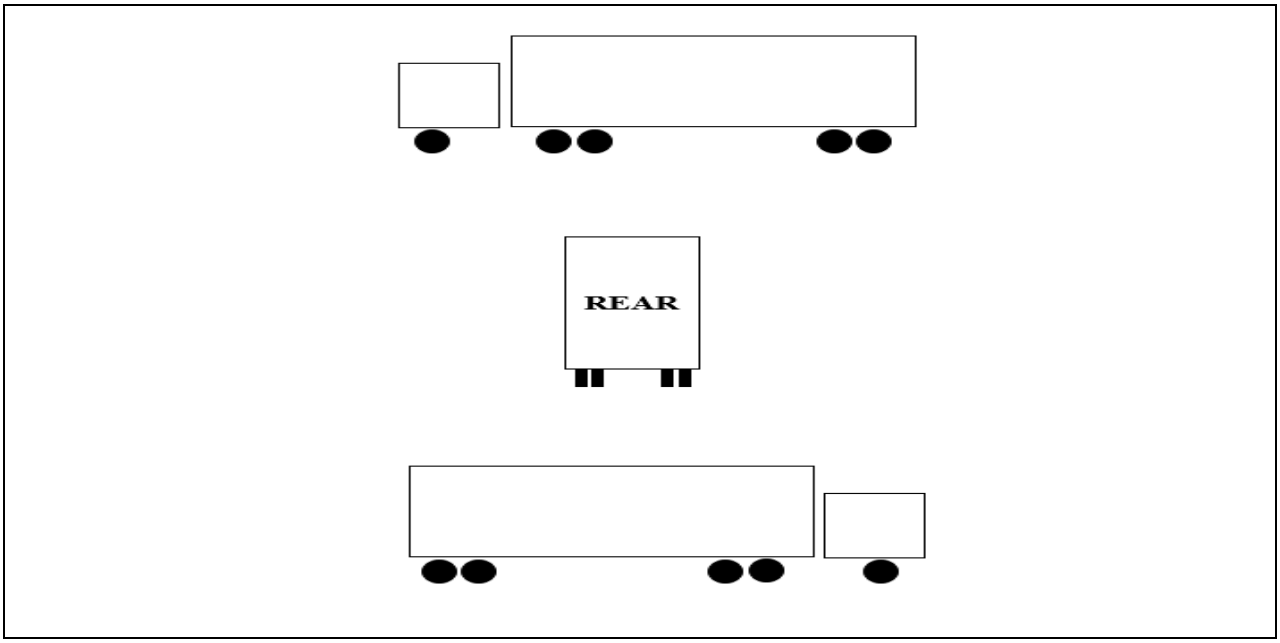
- Container Survey Form
- Truck Survey Form
- LUDLUM MODEL 375 DAILY SYSTEM CHECK FORM
- Unauthorized Waste Report

SHARPS CONTAINER SURVEY FORM			
SURVEYOR:			SURVEY DATE & TIME:
MANUFACTURER / MODEL / SERIAL NUMBER OF SURVEY METER:			CALIB. DATE:
MANIFEST ID & DESCRIPTION OF WASTE:			WASTE FORM:
WASTE GENERATOR:	ADDRESS:		PHONE:
WASTE GENERATOR CONTACT:	TITLE:	CONTAINER ID:	FAX:
TRUCK OWNER:	ADDRESS:		PHONE:
CONTACT:	TRUCK LICENSE NO:	TRUCK ID NUMBER:	FAX
TRUCK DRIVER		TIME OF ALARM:	SYSTEM COUNT RATE:
BACKGROUND (uR/HR):	LOCATION:		
CONTAMINATION DETECTED: YES☐ NO☐	IF YES, DESCRIBE:		

SHOW RADIATION MEASUREMENTS IN uR/hr

LEFT SIDE	**REAR**	**RIGHT SIDE**	**FRONT**

SHARPS TRUCK SURVEY FORM				
SURVEYOR:				SURVEY DATE & TIME:
MANUFACTURER / MODEL / SERIAL NUMBER OF SURVEY METER:				CALIB. DATE:
MANIFEST ID & DESCRIPTION OF WASTE				WASTE FORM
WASTE GENERATOR:	ADDRESS:			PHONE:
WASTE GENERATOR CONTACT:		TITLE:		FAX:
TRUCK OWNER:	ADDRESS:			PHONE:
CONTACT	TRUCK LICENSE NO.	TRUCK ID NUMBER:		FAX:
TRUCK DRIVER:		DRIVER µR/hr:		SYSTEM COUNT RATE
BACKGROUND (uR/HR):	LOCATION:			
CONTAMINATION DETECTED YES ☐ NO ☐		DESCRIBE:		
VEHICLE SURVEY				
SHOW RADIATION MEASUREMENTS IN uR/hr				



LUDLUM MODEL 375 DAILY SYSTEM CHECK FORM				
CHECK MADE BY	**DATE**	**BACKGROUND READINGS**	**FIELD CHECK (Known Source)**	**COMMENTS**

SHARPS **Unauthorized Waste Report (UWR)Form**		
Facility Originating Report		**Date Received:**
Name:		
Address:		
City:	State:	Zip:
Phone:		
Generator Information (Origin)		
Name:		
Address:		
City:	State:	Zip:
Phone:		
Driver Full Name:	Transporter Name:	
Vehicle Type:	Plate Number:	Manifest Number:
Incident Description (what occurred/containers and how many)		
Provide detailed incident, actual monitor readings, including time each person notified:		
Notified Agency (s) (list names of phone numbers of agencies notified)		
Disposition:	**Date:**	

Hauling Company:	
Date Suspected Waste Hauled:	Amount:
Phone Number:	Time:
Review and Approval:	
Report Generated By:	Date
Signature	
Plant Manager:	Date:
Signature	

APPENDIX C

NYC ENVIRONMENTAL ASSESSMENT RESPONSE (CEQR)

City Environmental Quality Review (CEQR)
Permit NO. 2-6105-00889/00001

INTRODUCTION

This appendix examines the proposed Transfer Station's potential effects on traffic, air quality, odor, greenhouse gas emissions and noise to determine if further environmental assessment is warranted. This examination was conducted pursuant to the methodologies outlined in the 2014 CEQR Technical Manual and, in some cases, NYSDEC SEQR guidance.

BACKGROUND

Sharps, through its subsidiary Citiwaste LLC, is currently a permitted RMW transporter pursuant to NYSDEC Permit NO. 2A-538. This existing collection business, based at 893 Shepherd Avenue, utilizes small vehicles (box trucks) to collect sealed RMW containers from doctors' offices, small veterinary and medical clinics, dental practices, nursing homes, etc. within the local area. Sharps currently operates 15 collection vehicles, which deliver RMW containers to locally permitted transfer stations, and employs 4 administrators and 15 drivers.

By its application for an RMW Transfer Station permit, Sharps proposes to use 893 Shepherd Avenue as a transfer station for its collection vehicles, eliminating the need for those box trucks to travel to other locally permitted transfer stations. Sharps' collection vehicles would unload their sealed RMW containers at 893 Shepherd avenue to be either loaded directly into a long-haul trailer, or temporarily stored At maximum capacity, Sharps transfer station and collection operations based at 893 Shepherd Avenue would use 30 collection vehicles and 7 long-haul trucks per day, and employ 10 administrators and 30 drivers.

All vehicles proposed to accept or unload RMW at the Transfer Station are company owned and operated, and thus Sharps controls their movement and creates its own pickup and delivery schedule. Sharps would only dispatch an empty long-haul vehicle to the facility when a trailer at the facility is full and ready for transfer to a disposal or treatment facility. This ensures an efficient trailer swap and prevents any queuing outside the facility. Similarly, Sharps would stagger the arrival of collection vehicles to prevent any backup of box trucks requiring unloading. In addition, in the event that collection vehicles arrive ahead of schedule, the facility layout has sufficient space that box trucks can queue inside the facility rather than outside.

CEQR
Permit NO. 2-6105-00889/00001

TRANSPORTAION CHAPTER 16

According to the 2014 CEQR Technical Manual Chapter 16 Transportation, Section 200, a detailed transportation analyses may not be needed for projects that would create low- or low- to moderate-density development in particular sections of the City. Projects generating fewer than 50 peak hour vehicle trips (with "trips" referring to trip-ends), 200 peak hour subway/rail or bus transit riders and 200 peak hour pedestrian trips, are generally considered unlikely to cause significant adverse impacts. Trip generation rates for long-haul and collection vehicles are based on the proposed maximum number of NYSDEC permitted vehicles. It is assumed, based on past experience, that most employees would commute to work using public transportation.

The Temporal Distribution in Table 1 provides a worst-case estimate of the number of vehicle trips expected to be generated by the transfer station over the course of the entire day including collection, long-haul and employee's vehicles:

Transfer Station Vehicles – Temporal Distribution
(Worst-Case Scenario) Table 1

Time	Collection Vehicles		Net Long-Haul Trucks		Employee Vehicles		Total Vehicles
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	
12 a.m.-1 a.m.	0	0	0	0	0	0	**0**
1 a.m.-2 a.m.	0	0	0	0	0	0	**0**
2 a.m.-3 a.m.	0	0	0	0	0	0	**0**
3 a.m.-4 a.m.	0	0	0	0	0	0	**0**
4 a.m.-5 a.m.	0	0	0	0	0	0	**0**
5 a.m.-6 a.m.	0	0	0	0	0	0	**0**
6 a.m.-7 a.m.	0	**15**	0	0	**4**	0	**19**
7 a.m.-8 a.m.	0	**15**	**1**	**1**	**5**	0	**22**
8 a.m.-9 a.m.	0	**0**	**1**	**1**	**5**	0	**7**
9 a.m.-10 a.m.	0	0	0	0	0	0	**0**
10 a.m.-11 a.m.	0	0	**1**	**1**	0	0	**2**
11 a.m.-12 p.m.	0	0	0	0	0	0	**0**
12 p.m.-1 p.m.	0	0	**1**	**1**	0	0	**2**
1 p.m.-2 p.m.	0	0	0	0	0	0	**0**
2 p.m.-3 p.m.	**10**	0	**1**	**1**	0	**0**	**12**
3 p.m.-4 p.m.	**10**	0	**1**	**1**	0	**4**	**16**
4 p.m.-5 p.m.	**10**	0	**1**	**1**	0	**5**	**17**
5 p.m.-6 p.m.	0	0	0	0	0	**5**	**5**
6 p.m.-7 p.m.	0	0	0	0	0	0	**0**
7 p.m.-8 p.m.	0	0	0	0	0	0	**0**
8 p.m.-9 p.m.	0	0	0	0	0	0	**0**
9 p.m.-10 p.m.	0	0	0	0	0	0	**0**
10 p.m.-11 p.m.	0	0	0	0	0	0	**0**
11 p.m.-12 a.m.	0	0	0	0	0	0	**0**
Daily Total	**30**	**30**	**7**	**7**	**14**	**14**	**102**

The CEQR Technical Manual requires that for projects expected to generate truck traffic, trucks be converted to Passenger Car Equivalents (PCEs) to determine if project-generated traffic will exceed the 50 peak hours vehicle trip-end threshold (Table 16-3 of Chapter 16):

Table 2

Vehicle Type	PCE Factor
Personal Auto	1.0
Trucks/Buses with 2 Axles and Waste Collection Vehicles*	1.5
Trucks/Buses with 3 Axles	2.0
Trucks with 4 or more Axles	2.5

Table 3 presents the Transfer Station generated traffic in PCEs for the weekday peak hours (using Table 1 above). As indicated in Table 3, the highest volume of the proposed transfer station-generated traffic during peak hours is 25 PCEs and the highest volume of the proposed transfer station-generated traffic during any hour is 32.5 PCEs, based on all transfer station-generated vehicles between 6 a.m. and 7 p.m.

Transfer Station Traffic Volumes Weekday Peak Hours
(Worst-Case Scenario) Table 3

Peak Hours	Time	Collection Vehicles		Long-Haul Truck		Employee Vehicles		Total	
		Vehicles	PCEs	Vehicles	PCEs	Vehicles	PCEs	Vehicles	PCEs
	6 a.m.-7 a.m.	**15**	**22.5**	**0**	**0**	**4**	**4**	**19**	**26.5**
	7 a.m.-8 a.m.	**15**	**22.5**	**2***	**5**	**5**	**5**	**22**	**32.5**
Morning Peak	8: a.m.-9 a.m.	0	0	**2***	**5**	**5**	**5**	**7**	**10**
	9 a.m.-10 a.m.	0	0	0	0	0	0	**0**	**0**
	10 a.m.-11 a.m.	0	0	**2***	**5**	0	0	**2**	**5**
	11 a.m.-12 p.m.	0	0	0	0	0	0	**0**	**0**
	12 p.m.-1 p.m.	0	0	**2***	**2**	0	0	**2**	**5**
Mid-day Peak	1 p.m.-2 p.m.	0	0	0	0	0	0	**0**	**0**
	2 p.m.-3 p.m.	**10**	**15**	**2***	**5**	0	0	**12**	**20**
	3 p.m.-4 p.m.	**10**	**15**	**2***	**5**	**4**	**4**	**16**	**24**
Evening Peak	4 p.m.-5 p.m.	**10**	**15**	**2***	**5**	**5**	**5**	**17**	**25**
	5 p.m.-6 p.m.	0	0	0	0	**5**	**5**	**5**	**5**
	6 p.m.-7 p.m.	0	0	0	0	0	0	0	0

***one vehicle in and one out.**

All vehicles proposed to accept or unload RMW at the Transfer Station are company owned and operated, and thus Sharps controls their movement and creates its own pickup and delivery schedule. Sharps would only dispatch an empty long-haul vehicle to the facility when a trailer at the facility is full and ready for transfer to a disposal facility. This ensures an efficient trailer swap and prevents any queuing outside the facility. Similarly, Sharps would stagger the arrival of collection vehicles to prevent any backup of box trucks requiring unloading. In addition, in the event that collection vehicles arrive ahead of schedule, the facility layout has sufficient space that box trucks can queue inside the facility rather than outside.

Traffic Routes Collection Vehicles:

1. Designated truck routes by the NYCDOT for local truck circulation within the immediate vicinity of the transfer station are:
   - Fountain Av
   - Linden Blvd
   - Pennsylvania Av
   - Vandalia Av
   - Louisiana Av
   - Cross Bay Blvd
   - Broadway

2. Designated through truck routes between the transfer station and other regions of the service area are:
   - Conduit Blvd
   - Atlantic Ave
   - Brooklyn-Queens Expressway
   - Van Wyck Expressway
   - Hillside Ave
   - Queens Blvd

3. Route Collection Vehicle arriving at facility from Conduit Blvd:
   From Conduit Blvd exit onto Linden Blvd. Take Linden Blvd West to Atkins Ave. Turn left, South onto Atkins Ave. Take Atkins Ave South to Wortman Ave. Turn right, West onto Wortman Ave. Take Wortman Ave West to Berriman St. Turn right, North onto Berriman St. Take Berriman St North to facility entrance. Turn left into Berriman St facility entrance.

4. Route Collection Vehicle departing facility to Conduit Blvd:
   From Berriman St facility entrance. Turn left, North on Berriman St. Take Berriman St North to Linden Blvd. Turn right, East onto Linden Blvd. Take Linden Blvd East to Conduit Blvd.

Traffic Routes Long-haul Vehicles (45' trailer max):

1. Long Haul truck arriving at facility from Conduit Blvd:
   From Conduit Blvd exit onto Linden Blvd. Take Linden Blvd West to Atkins Ave. Turn left, South onto Atkins Ave. Take Atkins Ave South to Stanley Ave. Turn right, West on Stanley Ave. Take Stanley Ave West to Shepherd Ave. Turn left, South onto Shepherd Ave to loading dock at 893 Shepherd Ave.

2. Long Haul truck departing from facility to Conduit Blvd:
   From loading docks at 893 Shepherd Ave. Take Shepherd Ave North to Stanley Ave. Turn right, East onto Stanley Ave. Take Stanley Ave East to Fountain Ave. Turn left, North onto Fountain Ave. Take Fountain Ave North to Linden Blvd. Turn right, East onto Linden Blvd. Take Linden Blvd East to Conduit Blvd.

NYSDEC SEQR guidance (the FEAF workbook) defines projects likely to result in "substantial traffic" as any project that would generate more than 100 peak hour vehicle trips. The guidance sets numeric thresholds for specific types of land uses at which it is assumed that a proposed project would generate traffic exceeding the 100 peak hour vehicle trip threshold. For "light industrial/warehousing" uses, SEQR

guidance assumes substantial traffic would be generated if a proposed facility would be 180,000 square feet or more. The proposed Transfer Station facility would be 22,000 feet of gross floor area, well below the SEQR threshold, and would generate significantly fewer than 100 peak hour vehicle trips.

In sum, project generated traffic conditions will not exceed SEQR or CEQR thresholds and thus no additional traffic impact analysis is warranted.

AIR QUALITY CHAPTER 17

MOBILE SOURCES 210

According to the CEQR Technical Manual Chapter 17 Section 200, Determining Whether an Air Quality Assessment is Appropriate, and Subsection 210, Mobile Sources, projects are likely to cause significant adverse air quality impacts from mobile sources if they increase or cause a redistribution of traffic, create any other mobile sources of pollutants (e.g., diesel trains, helicopters, boats), or add new uses near mobile sources (e.g., roadways, garages, parking lots). The proposed Transfer Station is not the type of project presumed, in Subsection 210, to cause significant adverse air quality impacts from mobile sources:

Will the proposed Transfer Station?	**Yes/No**
result in placement of operable windows (i.e., windows that may be opened and closed by the tenant), balconies, air intakes, or intake vents generally within 200 feet of an atypical (e.g., not at-grade) source of vehicular pollutants, such as a highway or bridge with a total of more than two lanes.	No
result in the creation of a fully or partially covered roadway, would exacerbate traffic conditions on such a roadway, or would add new uses near such a roadway.	No
generate peak hour auto traffic or divert existing peak hour traffic, resulting in the following:	
• 160 or more auto trips in areas of concern in downtown Brooklyn or Long Island City, Queens (see Figures 17-1 and 17-2);	No
• 140 or more auto trips in Manhattan between 30th and 61st Streets; or	No
• 170 or more auto trips in all other areas of the city.	No
generate peak hour heavy-duty diesel vehicle traffic or its equivalent in vehicular emissions (the attached worksheet and guidance regarding vehicle class may be used to calculate equivalency), resulting in the following:	
• 12 or more heavy duty diesel vehicles (HDDV) for paved roads with average daily traffic fewer than 5,000 vehicles;	No
• 19 or more HDDV for collector roads;	No
• 23 or more HDDV for principal and minor arterials; or	No
• 23 or more HDDV for expressways and limited access roads.	No
result in new sensitive uses (particularly schools, hospitals, parks, and residences) adjacent to large existing parking facilities or parking garage exhaust vents.	No
result in parking facilities or applications to the City Planning Commission requesting the grant of a special permit or authorization for parking facilities. Consultation with the lead agency regarding whether an air quality analysis of parking facilities is necessary is recommended.	No
result in a sizable number of other mobile sources of pollution, such as a heliport, new railroad terminal, or trucking.	No

STATIONARY SOURCES 220

According to CEQR Technical Manual Subsection 220, STATIONARY SOURCES, projects may result in stationary source air quality impacts when they would:

(i) create new stationary sources of pollutants—such as emission stacks for industrial plants, hospitals, other large institutional uses, or even a building's boilers—that may affect surrounding uses;
(ii) introduce certain new uses near existing or planned emissions stacks that may affect the use; or
(iii) introduce structures near such stacks so that changes in the dispersion of emissions from the stacks may affect surrounding uses.

The following projects may result in potentially significant adverse impacts related to stationary sources, and therefore require stationary source analyses, however the proposed Transfer Station is not the type of project presumed, in Subsection 220, to cause such impacts:

Will the proposed Transfer Station	Yes/No
use fossil fuels (i.e., fuel oil or natural gas) for heating/hot water, ventilation, and air conditioning systems (note that single-building projects may be able to perform a screening analysis rather than detailed stationary source analyses; see Subsection 322.1, below).	No
create major or large emission sources including, but not limited to, the following: solid waste or medical waste incinerators, cogeneration facilities, asphalt and concrete plants, or power generating plants. Major sources are identified as those sources located at Title V facilities that require Prevention of Significant Deterioration permits. Large sources are identified as sources located at facilities which require a State facility permit.	No
result in new uses (particularly schools, hospitals, parks, and residences) located near a major or large emission source.	No
include medical, chemical, or research labs.	No
result in new uses being located near medical, chemical, or research labs.	No
include operation of manufacturing or processing facilities.	No
result in new uses (particularly schools, hospitals, parks, and residences) within 400 feet of manufacturing or processing facilities.	No
result in potentially significant odors. This includes, but is not limited to, solid waste management facilities, water pollution control plants (i.e., sewage treatment plants), and incinerators.	No
result in new uses near an odor-producing facility.	No
create "non-point" sources, such as unpaved surfaces and storage piles that could result in fugitive dust.	No
result in new uses near non-point sources. Stationary sources may also be an issue for generic or programmatic actions that would change or create a stationary source (as described above) or that would expose new populations to such a stationary source.	No

In sum, project generated mobile source and stationary emissions will not exceed CEQR thresholds and thus no additional air analysis is warranted.

ODORS CHAPTER 17

The proposed transfer station is not expected to cause any adverse impacts due to odor. RMW containers are received sealed and remain sealed throughout from generator collection to treatment facility. Containers are loaded, unloaded and stored in-doors and removed from the transfer station building within 72 hours of receipt. RMW waste is subject to specific packaging and storage regulations, including NYSDEC Part 360 and Part 364, DOT 49 CFR 173.24, 173.24(a), 172.700 and OSHA 29 CFR Part 1910.1030.

For more details, please see Appendix C Contingency Plan in the permit Engineering Report.

According to the 2014 CEQR Manual under Solid Waste and Sanitation Services Chapter 14 Section 200 "wastes with special characteristics, such as regulated medical wastes, are subject to specific handling and disposal regulations. Compliance with applicable requirements generally eliminates possible significant adverse impacts." Sharps will comply with all applicable requirements, and therefore, pursuant to CEQR standards, there is no potential for significant adverse odor impacts and no further analysis is warranted.

GREENHOUSE GAS AND EMISSIONS CHAPTER 18

According to the 2014 CEQR Technical Manual, GHG emissions assessment (210. GREENHOUSE GAS EMISSIONS) focuses on those projects that have the greatest potential to produce GHG emissions that may result in inconsistencies with the GHG reduction goal to a degree considered significant and, correspondingly, have the greatest potential to reduce those emissions through the adoption of project measures and conditions. The assessment is currently limited to the projects with the characteristics described below, none of which are applicable to the proposed Transfer Station.

Does the proposed Transfer Station involve	**Yes/No**
City capital projects subject to environmental review,	No
Power generation (not including emergency backup power, renewable power, or small-scale cogeneration); or	No
Regulations and other actions that fundamentally change the City's solid waste management system by changing solid waste transport mode, distances, or disposal technologies.	No
A project conducting an EIS that would also result in development of 350,000 square feet or greater.	No

In sum, project generated greenhouse gas emissions will not exceed CEQR thresholds and thus no additional analysis is warranted.

NOISE CHAPTER 19

According to 2014 CEQR Manual Chapter 19 Section 200. DETERMINING WHETHER A NOISE ANALYSIS IS APPROPRIATE, it is possible to determine that a project would not have the potential for a significant noise impact simply from its proposed physical characteristics and, therefore, no further analysis is necessary.

MOBILE SOURCES

As discussed in the traffic section above, the proposed Transfer Station would not generate traffic volumes that would exceed the mobile source threshold of 50 passenger car equivalent peak vehicle trip-ends. The CEQR Technical manual provides that, "if existing Noise PCE values are not increased by 100 percent or more, it is likely that the proposed project would not cause a significant adverse vehicular noise impact, and therefore, no further vehicular noise analysis is needed." See section 311.1 This proposed project, which is projected to generate less than 50 PCE peak vehicle trip-ends, does not have the potential to double

noise PCEs in the project area, and therefore Transfer Station does not have the potential to cause significant adverse noise impacts.

Similarly, NYSDEC guidance on noise analysis provides that, where a facility is "as-of-right" pursuant to local zoning, it may be presumed that the use will not cause significant adverse impacts, provided the operator will comply with best management practices. The proposed Transfer Station is an as-of-right use in an M1-1 district, and Sharps will comply with best management practices.

STATIONARY SOURCES

According to the CEQR Technical Manual, Section 220, stationary sources likely to generate substantial noise include unenclosed cooling or ventilation equipment (other than single-room units), truck loading docks, loudspeaker systems, stationary diesel engines (typically more than 100 horsepower), car washes, or other similar types of uses. A detailed analysis, as described in Subsection 333, may be appropriate if the proposed project would:

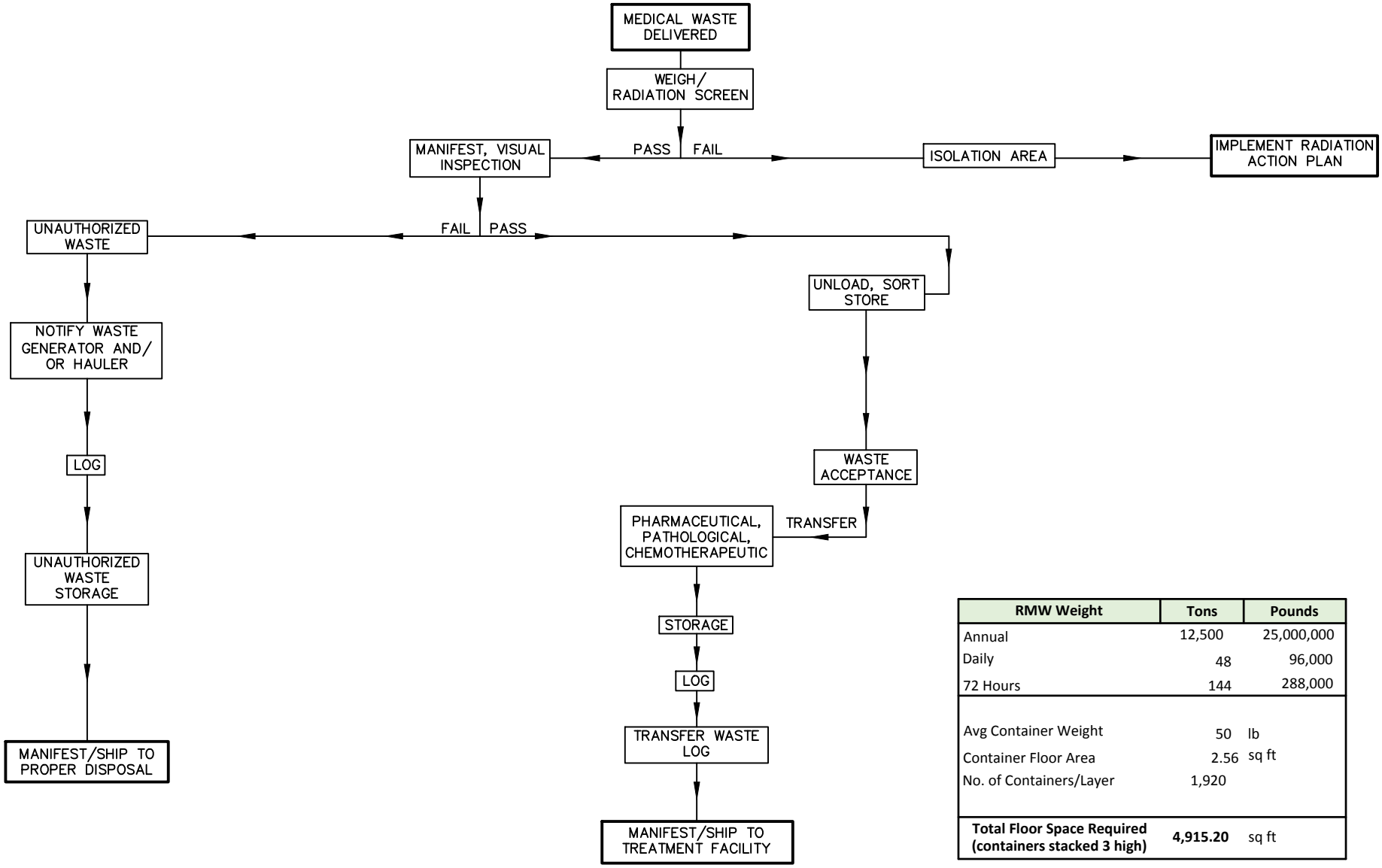
- Cause a substantial stationary source (e.g., unenclosed mechanical equipment for manufacturing or building ventilation purposes, playground) to be operating within 1,500 feet of a receptor, with a direct line of sight to that receptor; or
- Introduce a receptor in an area with high ambient noise levels resulting from stationary sources, such as unenclosed manufacturing activities or other loud uses.

The proposed transfer facility will not involve the introduction of any substantial stationary sources or introduce any noise-sensitive receptors.
All activities will be performed indoors.

Review of 2014 CEQR Technical Manual Chapter 19 has determined that the proposed Transfer Station's will not have the potential to cause significant adverse noise impacts from mobile or Stationary noise sources. The transfer station will not exceed SEQR/CEQR thresholds or standards.

APPENDIX D

WASTE PROCESSING FLOW DIAGRAM



RMW Weight	Tons	Pounds
Annual	12,500	25,000,000
Daily	48	96,000
72 Hours	144	288,000

Avg Container Weight	50	lb
Container Floor Area	2.56	sq ft
No. of Containers/Layer	1,920	
Total Floor Space Required (containers stacked 3 high)	**4,915.20**	sq ft

EarthRes ENGINEERING AND SCIENCE
P.O. Box 468
6912 Old Easton Road
Pipersville, PA 18947 USA
P.O. Box 794
Morgantown, WV 26505
www.earthres.com
PA office 215.766.1211
WV office 304.212.6866
toll free 800.264.4553

DRAWN BY:	CHECKED BY:
SP	TGP
DATE: 02/02/2018	PROJECT NO: 151015.003
DRAWING SCALE: NOT TO SCALE	

FIGURE P–1
WASTE PROCESSING FLOW DIAGRAM

SOLID WASTE MANAGEMENT FACILITY PERMIT APPLICATION
SHARPS COMPLIANCE, INC.
893 SHEPHERD AVENUE
BROOKLYN BOROUGH, KINGS COUNTY, NEW YORK

C:\Users\SPortner\appdata\local\temp\AcPublish_3536\Figure P–1 – Process Flow Diagram.dwg Layout: A SIZE LAND User: sportner 02/02/2018 16:38

APPENDIX E

APPLICATION FOR SOLID WASTE MANAGEMENT FACILITY PERMIT FORM FULL

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEPARTMENT USE ONLY	
DEC APPLICATION NO.	
ACTIVITY NUMBER(S)	

Division of Materials Management

APPLICATION FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

Please read all instructions before completing this application

Reset Form

Please **TYPE** or **PRINT** clearly

1. APPLICATION TYPE (CHECK ALL APPLICABLE BOXES):

- [x] Initial (New)
- [ ] Renewal
- [ ] Subsequent Landfill Stage (New)
- [ ] Modification

2. APPLICANT IS:

- [ ] Facility Owner
- [x] Facility Operator

3. IS APPLICATION FILED BY OR ON BEHALF OF A MUNICIPALITY? [ ] Yes [x] No

If Yes, Name

4. FACILITY OWNER'S INFORMATION

Name: SIT Realty LLC
Address: 2266 E 2nd Street
City: Brooklyn, NY
State/Zip: 11223 Phone: 516-322-7753
Email: aryehrealty@yahoo.com

5. FACILITY OPERATOR'S INFORMATION

Name: Sharps Compliance, Inc. of Texas
Address: 893 Shepherd Avenue
City: Brooklyn, NY
State/Zip: 11208 Phone: 713-443-3539
Email: aaladwani@sharpsinc.com

6. ENGINEER'S INFORMATION

Name: Hong Sima, Ph. D.,P.E.
NY License #: 082602-1 Phone: 215-589-3720
Firm Name: Hong Sima
Address: 275 Barnhill rd. Perkasie, PA 18944
Email: hong.sima@yahoo.com

7. FACILITY NAME AND LOCATION (Attach USGS Topo Map showing exact location)

Name: Sharps Compliance, Inc.
Street: 893 Shepherd Avenue
City/State/Zip: Brooklyn, NY 11208
Town: Brooklyn County: Kings
Coordinates: NYTM--E: 73" 52' 32.34" NYTM--N: 40" 39' 46.57"

8. SITE OWNER'S INFORMATION

Name: SIT Realty LLC
Address: 2266 E 2nd Street
City/Town: Brooklyn, NY
State/Zip: 11223 Phone: 516-322-7753
Email: aryehrealty@yahoo.com

9. TYPE OF FACILITY (Check all applicable boxes)

- [ ] Combustion & Thermal Treatment (362-1)
- [ ] C & D Debris Handling & Recovery (361-5)
- [ ] Composting & Other Organics Processing (361-3)
- [ ] Household Hazardous Waste Collection (362-4)
- [ ] Land Application & Associated Storage (361-2)
- [ ] Landfill (363)
- [x] Regulated Medical Waste (365)
- [ ] Mulch Processing (361-4)
- [ ] Municipal Solid Waste Processing (362-2)
- [ ] Navigational Dredge Mat. H'lding & Recovery(361-9)
- [ ] Nonspecific Facilities (360.17)
- [ ] Recyclables Handling & Recovery (361-1)
- [ ] Research, Development, and Demonstration (360.18)
- [ ] Transfer (362-3)
- [ ] Waste Oil (374-2)
- [ ] Waste Tire Handling & Recovery (361-6)
- [ ] Used Cooking Oil & Yellow Grease (361-8)

10. NAME(S) OF ALL MUNICIPALITIES SERVED:

All NYS

11. SOLID WASTES ACCEPTED:

Identify facility capacity and throughput of each waste type, as applicable

11. Waste Accepted
11.1 Regulated Medical Waste Maximum: 12,000 tons per year and,
11.2 Non-hazardous expired pharmaceutical waste maximum: 500 tons per year.
11a. N/A
11b.1. Maximum daily tonnage Received: 48 tons per day and,
11b.2. Maximum Storage Capacity: 144 tons

12. FACILITY SIZE

a. Facility size proposed (acres): .5
b. Total site area (acres): .5
c. Landfill only: Facility size ultimately planned (acres): N/A
d. Existing landfill area on this site and adjacent properties (acres): N/A
e. Landfill only: Ultimate facility height above ground level (feet): N/A

13. IS A VARIANCE REQUESTED FROM ANY PROVISION OF 6 NYCRR PART 360?

[ ] Yes [x] No If yes, cite specific provision(s)

14. CERTIFICATION: [x] Corporation [ ] Partnership [ ] Sole Proprietorship [ ] Municipality

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have authority or am authorized as

(title) Vice President of Quality of (entity) Sharps Compliance, Inc.

to sign this application pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date 06/03/2018 Signature Print Name Al Aladwani

APPENDIX F

ENVIRONMENT ASSESSMENT REPORT AND RESPONSES

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Transfer Station Regulated Medical Waste (RMW)		
Project Location (describe, and attach a general location map): 893 Shepherd Avenue, Brooklyn NY 11208. Kings County.		
Brief Description of Proposed Action (include purpose or need): Sharps proposes to use the existing building at 893 Shepherd Ave, which currently serves as a base of operations for Sharps' RMW collection business, as a transfer station where sealed RMW containers already collected by Sharps' DEC permitted collection vehicles (box trucks) could be consolidated into larger vehicles (long-haul trucks) for shipment to out-of-state treatment facilities. All activities will be performed inside the fully enclosed building, which is 22,000 sq. ft, with 20' ceilings and includes 2000' sq. ft. of office space. The building has one drive-in door and two loading docks, is equipped with a sprinkler system and is made of masonry walls with concrete floor. The site's NYC zoning designation is M1-1 Manufacturing, which allows transfer stations. Sharps already collects RMW from local healthcare facilities, prepackaged in leakproof containers compliant with DOT, FDA and OSHA regulations. The proposed transfer station would make it possible for Sharps' collection vehicles to avoid traveling to other long distance transfer stations. The transfer station would generate, at most, 30 collection vehicles and 7 long-haul truck trips per day. The facility will be designed for rapid transfer and minimum retention time. Sealed containers may be temporarily stored unrefrigerated for a time period not to exceed 72 hours. Containers left longer than 72 hours. will be refrigerated (<7c degrees or <45f), but no containers will remain more than 7 days from date of receipt.		
Name of Applicant/Sponsor: Sharps Compliance, Inc.	Telephone: 713-443-3539 E-Mail: aaladwani@sharpsinc.com	
Address: 9220 Kirby Drive, Suite 500		
City/PO: Houston	State: Texas	Zip Code: 77054
Project Contact (if not same as sponsor; give name and title/role): Al Aladwani	Telephone: 713-443-3539 E-Mail: aaladwani@sharpsinc.com	
Address: 9220 Kirby Drive, Suite 500		
City/PO: Houston	State: Texas	Zip Code: 77054
Property Owner (if not same as sponsor): SIT Realty	Telephone: 516-322-7753 E-Mail: aryehrealty@Yahoo.com	
Address: 2266 E. 2nd Street		
City/PO: Brooklyn	State: NY	Zip Code: 11223

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☐Yes ☑No		
c. City Council, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☐Yes ☑No		
e. County agencies ☐Yes ☑No		
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYS Department of Environmental Conversation and Type of Permit	
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☑Yes ☐No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
M1-1

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Brooklyn School District 19

b. What police or other public protection forces serve the project site?
New York City Precinct 75

c. Which fire protection and emergency medical services serve the project site?
Fire battalion 39 Engine Ladder 107; EMS Station - Pennsylvania & east NY Treatment & Diagnostic Center.

d. What parks serve the project site?
Linden, Jerome, Elton, Linwood, Woodruff, Cypress Hills and Spring Creek Park.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Industrial and Commercial

b. a. Total acreage of the site of the proposed action? .5 acres
b. Total acreage to be physically disturbed? 0 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? .5 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐Yes ☑No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

i*v.* Will there be onsite dewatering or processing of excavated materials? ☐Yes ☑No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☑No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☑ No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☑ No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☑ No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☑ No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☑ No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑ Yes ☐ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

Transfer Station would generate, at most, 30 collection vehicles (2 Axles) and 7 Long-haul trips per day.

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:
- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

_____

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: N/A
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

ii. During Operations:

- Monday - Friday: 6:00 AM to 7:00 PM
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

_____

_____

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No

Describe: _____

_____

n.. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

_____

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

_____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

_____

_____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally describe proposed storage facilities: _____

_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

_____

_____

_____

_____

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☑ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____

  _____
- Operation: _____

  _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____

  _____
- Operation: _____

  _____

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

_____

_____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

_____

_____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

_____

_____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☑ No

If Yes: provide name and location of facility: _____

_____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☑ Industrial ☐ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

_____

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	.5	.5	0
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____ _____	0	0	0

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☑ Yes ☐ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☑ Yes ☐ No

☑ Yes – Spills Incidents database — Provide DEC ID number(s): 1300558 (C and L Sales Corp)

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): V00582 , C224139, 224035

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

See Appendix J Section F. additional Information. 2.1, 2.2 & 2.3.

_____

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☑ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? <20 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ _____%
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☐ Moderately Well Drained: _____% of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☐ 0-10%: _____% of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: see attached response

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☑ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☑ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100 year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500 year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☑ Yes ☐ No
If Yes:

i. Name of aquifer: Sole Source Aquifer Names:Brooklyn-Queens SSA

m. Identify the predominant wildlife species that occupy or use the project site: _____
N/A

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No

see Appendix J Section F. Additional Information Number 4.

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Al Aladwani Date 07/31/2017

Signature Al Aladwani Title V. P. of Quality

PRINT FORM

EAF Mapper Summary Report

Wednesday, April 26, 2017 10:40 AM

Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	Yes
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	V00582 , C224139, 224035
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Sole Source Aquifer Names:Brooklyn-Queens SSA
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	Yes
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Appendix F. FEAF
Permit No. 2-6105-00889/00001

Section F. Additional Information

1. **Section B. G *ii*. Is the project site located on community with an approved local Waterfront Revitalization Program?**

   This project site is **NOT** within the City's designated coastal zone.

2. **Section E.1. h. *iii*. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? DEC ID numbers V00582, C224139 and 224035.**

   Review of Environmental Site Remediation Database Search (ESRD) confirms the following:

   2.1 Site Code: V00582 is located more than 2000 feet from proposed transfer station. This site has been assigned a **Site Classification Code: C (Completed).** "The site remediation has been satisfactorily completed under a remedial program."

   2.2 Site Code: C224139 is located more than 1000 feet from proposed transfer station. This site has been assigned a **Site Classification Code: A**. The site remediation work is underway and according to Site Health Assessment "direct contact with contaminations in the soil is unlikely because the majority of the site is covered with building and pavement. Contaminated groundwater at the site is not used for drinking or other purposes and the site is serviced by a public water supply that obtains water from different source not affected by this contamination."

   2.3 Site Code: 224035 is located 3000 feet or more from the closest point of the proposed transfer station. This site has been assigned a Site Classification Code: 02. Direct contact with contamination is unlikely, the site is fenced, which limits the public access. Contaminated groundwater at the site is not used for drinking or other purposes and the site is serviced by a public water supply that obtains water from different source not affected by this contamination."

   Note: Activities from the proposed transfer station site at 893 Shepherd Avenue, will not involve new development, building modification or land disturbance.

3. **E2. 1. *i*. is the project located over, or immediately adjoining, a primary, principal or sole source aquifer? *i*. Name of the Aquifer: Brooklyn-Queens SSA.**

   The proposed transfer station location is located on the Brooklyn-Queens Sole Source Aquifer (SSA) system. As activities at the transfer station located at 893 Shepherd Avenue will not include new development and building modification, wastewater discharge into groundwater, or construction inside or outside the existing building. Therefore, there is no potential for adverse impact to water supply, wastewater discharge, subsurface components and the Brooklyn-Queens SSA, and no further review is required.

   Note: The site owner has agreed to contract BSD Environmental Group to seal all floor drains with concrete. This action is expected to be completed by October 1st. 2017.

   The proposed project is compliant with this regulation.
   http://www.dec.ny.gov/docs/water_pdf/ssa.pdf

4. **E2. 1. *O*. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for endangered or threatened species?**

   Since the proposed transfer station site activities will not involve new development, building modification, ground disturbance, or tree removing, plants and animal's habitat will not be affected.

5. **E3. *f.* Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?**

   Although, the proposed transfer station site is located within an archeological sensitive area, the project will not involve new development, building modification or ground disturbance. Therefore, there is no potential for adverse impact to archeological resources, and no further review is required.

APPENDIX G

PERMISSION TO INSPECT PROPERTY

NEW YORK STATE OF OPPORTUNITY. | Department of Environmental Conservation

PERMISSION TO INSPECT PROPERTY

By signing this permission form for submission with an application for a permit(s) to the Department of Environmental Conservation ("DEC"), the signer consents to inspection by DEC staff of the project site or facility for which a permit is sought and, to the extent necessary, areas adjacent to the project site or facility. This consent allows DEC staff to enter upon and pass through such property in order to inspect the project site or facility, without prior notice, between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday. If DEC staff should wish to conduct an inspection at any other times, DEC staff will so notify the applicant and will obtain a separate consent for such an inspection.

Inspections may take place as part of the application review prior to a decision to grant or deny the permit(s) sought. By signing this consent form, the signer agrees that this consent remains in effect as long as the application is pending, and is effective regardless of whether the signer, applicant or an agent is present at the time of the inspection. In the event that the project site or facility is posted with any form of "posted" or "keep out" notices, or fenced in with an unlocked gate, this permission authorizes DEC staff to disregard such notices or unlocked gates at the time of inspection.

The signer further agrees that during an inspection, DEC staff may, among other things, take measurements, may analyze physical characteristics of the site including, but not limited to, soils and vegetation (taking samples for analysis), and may make drawings and take photographs.

Failure to grant consent for an inspection is grounds for, and may result in, denial of the permit(s) sought by the application.

Permission is granted for inspection of property located at the following address(es):

Sharps Compliance, Inc:
893 Shepherd Ave, Brooklyn, NY 11208

*By signing this form, I affirm under penalty of perjury that I am authorized to give consent to entry by DEC staff as described above. I understand that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.**

Al Aladwani V.P. of Quality		5-3-2017
Print Name and Title	Signature	Date

*The signer of this form must be an individual or authorized representative of a legal entity that:

- owns fee title and is in possession of the property identified above;
- maintains possessory interest in the property through a lease, rental agreement or other legally binding agreement; or
- is provided permission to act on behalf of an individual or legal entity possessing fee title or other possessory interest in the property for the purpose of consenting to inspection of such property.

APPENDIX H

ACCEPTABLE REGULATED RMW POSTER

Acceptable Regulated Medical Waste
Pickup Service Customers

SHARPS Compliance, Inc.

Common Medical Waste
AUTOCLAVE

Sharps Containers

- Syringes with needles attached
- Blood-contaminated syringes
- Blood tubes
- Pipettes
- Glass slides
- Sharp instruments
- Live vaccine vials (empty/partial)

Red Bag

- Materials saturated with blood or OPIM*
  - Personal protective equipment
  - Drapes
- Solidified suction canisters
- Tubing containing blood
- Cultures and micro waste

Autoclave

Trace Chemotherapy Waste
INCINERATION

Yellow Sharps Containers

- Vials and Syringes (empty/trace: less than 3% of chemo or other hazardous drugs)
- Needles

Yellow Bag

- Gowns
- Gloves
- Masks
- IV tubing
- IV bags (empty/trace)

Incineration Only

Pathological Waste
INCINERATION

Red Bag

- Human or animal tissues (no full body parts including torsos, heads, arms, hands, legs, feet, or fetuses)
- Surgical specimens

Pharmaceutical Waste
INCINERATION

Pharmaceutical Container

- Non-hazardous drugs
- Non-controlled drugs

Box Setup

1. Open and set up box with 2" shipping tape or use locking mechanism. Arrows on box point up.
2. Line with provided plastic red-bag liner.
3. Once full, gather and twist the neck of the red-bag liner to tie into a knot.
4. Seal box closed with 2" shipping tape.
5. Apply the appropriate provided label on box if PATH, CHEMO, or PHARMA. **IMPORTANT:** Inner contents cannot leak when the bag is upside down (no free-flowing liquids). Penalty for leaky containers is $9,000.

*OPIM includes pleural, cerebrospinal, synovial, pericardial, and amniotic fluid; saliva in dental procedures; semen and vaginal secretions; and any other fluid visibly contaminated with blood. Urine, urine cups, feces, and diapers are not regulated medical waste.

Call Sharps at 800.772.5657

for solutions for these waste streams that are not acceptable in the above pickup boxes.

- Decayed radioactive waste
- RCRA listed or characteristic hazardous waste or pharmaceuticals, including ignitable, corrosive, reactive, or toxic
- Controlled substances
- Bulk chemotherapy and other hazardous waste pharmaceuticals
- Category A - Highly infectious Waste (bacteria, viruses, parasites, and fungi capable of causing permanent disability or life-threatening or fatal disease in otherwise healthy humans or animals when exposed)
- Radiographic and amalgam wastes
- Free-flowing liquid medical waste

APPENDIX I

DESTINATION FACILITY INFORMATION (UPDATED DOCUMENTS)

Appendix I

Destination Facility Information

The following table contains information for each destination facility to which Sharps Compliance, Inc. will be transferring regulated medical waste:

Alpha Bio Med Services (Alpha)	
Name of Facility:	Alpha Bio-Med Services, LLC.
Address:	600 Industrial Road Nesquehoning, PA 18240
Contact Person:	David Martin (903) 693-2525
Type of Authorization:	Permit No. 400696 Authorization No. 884550 for the storage, transfer and treatment of RMW and Chemotherapeutic Wastes.
Permit Expiration Date:	July 28, 2026
Maximum Operating Capacity:	82 tons/day, 24 hours a day, seven days a week, Monday through Sunday.
Acceptance Letter:	**See attachment 1**. Letter from the operator of the destination facility stating the amount of each type of material it will accept from Sharps transfer station including conditions it places on such acceptance.
Authorization to Operate:	**See attachment 2**. Current copy of Alpha authorization to operate the destination facility.

WASTE TYPE AND AMOUNT TO BE SENT TO DESTINATION FACILITY:

Sharps will be transferring medical waste generated in a broad range of medical, diagnostic, therapeutic and research activities. Proper packaging, labeling and transportation of RMW will follow all mandated federal and state regulations. RMW will be properly segregated, packaged and labeled in a manner to maintain the integrity of the containers, prevent the leakage or release of waste from the containers, and provide protection from water, rain and the environment while handling and during transportation. On any given day Sharps may transfer RMW amounts not to exceed, in aggregate, 48 tons per day, Monday through Friday, of any of the RMW Types listed below. Exact proportions will vary, subject to maximum tonnage per day (TPD) limits:

RMW Type	Maximum TPD
Regulated Medical Waste - a soft waste material derived from the medical treatment, diagnosis, immunization, or biomedical research of human and animal. Soft medical waste includes (other than sharps) used rubber gloves, swabs, gauze, tongue depressors, and other similar material as defined in 25 Pa Code Chapter 271 and OSHA 29 CFR 1910.1030.	48
Sharps Medical Waste - medical waste object that is capable of cutting or penetrating skin or packaging material and that is contaminated with a pathogen or may become contaminated with pathogen derived from medical treatment, diagnosis, immunization, or biomedical research of human and animal. Sharps include used medical waste such as needles, syringes, scalpels, broken glass, culture slides, culture dishes, broken capillary tubes, broken rigid plastic, and exposed ends of dental wires as defined in OSHA 29	10

Appendix I

CFR 1910.1030.	
Pharmaceutical Waste - waste containing pharmaceuticals e.g. pharmaceuticals that are expired or no longer needed; items contaminated by or containing pharmaceuticals (bottles, boxes), which are not defined as Federal Hazardous Wastes.	4
Pathological Waste - Pathological waste includes animal carcasses, organs, tissues, body parts other than teeth, products of conception, and fluids removed by trauma or during surgery or autopsy or other medical procedure, and not fixed in formaldehyde.	10
Chemotherapeutic Waste -Vials or other containers that have less than 3% of the original contents by weight, after removing as much of the chemotherapy medicine as feasible. Waste includes: • Any empty chemotherapy containers or IV bags and tubing that did not hold either a P-listed, Chemotherapy medicine or a State-only hazardous waste, • All empty bags and tubing, needles, containers, gloves, and gowns with chemotherapy medicine remaining from use during chemotherapy infusions, • Any PPE or other materials used during chemotherapy infusions that are not visibly contaminated.	5
All sources in aggregate	48

UNAUTHORIZED WASTE:

When an unauthorized waste/container has been discovered at the transfer station, Sharps will immediately notify the responsible Generator. It's the responsibility of each generator to arrange and contract for both an authorized transporter and disposal facility. The transfer station is responsible for inspecting received containers, reject and isolated unauthorized waste(s), making the proper notations in the RMW Tracking Form and notifying the Generator, reporting each incident to NYSDEC and maintaining appropriate records.

In the unlikely event that the Transfer Facility is unable to identify the responsible generator or a generator refuses to take financial responsibility for such waste, Sharps will take full responsibility by ensuring that unauthorized waste is properly disposed of, by arranging for both a permitted transporter and an authorized treatment facility.

alpha bio med
SERVICES
A SHARPS COMPLIANCE COMPANY

Date: 04/24/2018
To: Al Aladwani, V.P of Quality
Sharps Compliance, Inc.
9220 Kirby Drive, Suite 500
Houston, TX 77054

From: David Martin, Operations Director
Alpha Bio/Med Services, LLC.
600 Industrial Rd
Nesquehoning, PA 18240

Subject: Regulated Medical Waste Services

Dear Mr. Aladwani,

Alpha Bio/Med Services, LLC., (Alpha) is pleased to submit its proposal through this transmittal letter to Sharps Compliance, Inc., (Sharps) located at 893 Shepherd Ave, Brooklyn, NY 11208. in response to master agreement request for the treatment and disposal of regulated medical waste and chemotherapeutic waste (RMW) as set forth by Commonwealth of Pennsylvania Department of Environmental Protection 25 Pa. Code Section 271.1.

The work to be completed under this Agreement will consist of the treatment, disposal and cleaning and disinfection of reusable RMW containers. Alpha will maintain adequate storage and treatment capacity and guarantee acceptance of the Minimum Daily Quantity of 48 tons per day, 24 hours a day, 7 days a week Monday to Sunday of any of the waste type mentioned above.

Facility Information:

Alpha Facility Information	
Name of Facility	Alpha Bio-Med Services, LLC.
Address	600 Industrial Road Nesquehoning, PA 18240
Contact Person	David Martin (903) 693-2525
Type of Authorization (Permit)	Permit No. 400696 Authorization No. 884550 (for the storage, transfer and treatment of RMW and Chemotherapeutic Wastes.
Permit Expiration Date	July 28, 2026
Maximum Operating Capacity	82 tons/day 24 hours a day, seven days a week, Monday through Sunday.

WASTE TYPE (s) ACCEPTED:

Alpha accepts RMW waste generated in a broad range of medical, diagnostic, therapeutic and research activities. The term "medical waste" includes biohazardous, biomedical, infectious or regulated medical waste as defined under federal, state or local laws, rules, regulations and guidelines. The work to be completed under this Agreement will consist of the treatment, disposal and cleaning and disinfection of reusable RMW containers. Alpha will maintain adequate storage and treatment capacity and guarantee acceptance of the Minimum Daily Quantity of 48 tons per day, 24 hours per day, 7 days a week Monday through Sunday of any of the following Waste Types:

- Regulated Medical Waste - a soft waste material derived from the medical treatment, diagnosis, immunization, or biomedical research of human and animal. Soft medical waste includes (other than sharps) used rubber gloves, swabs, gauze, tongue depressors, and other similar material as defined in 25 Pa Code Chapter 271 and OSHA 29 CFR 1910.1030.
- Sharps Medical Waste - medical waste object that is capable of cutting or penetrating skin or packaging material and that is contaminated with a pathogen or may become contaminated with pathogen derived from medical treatment, diagnosis, immunization, or biomedical research of human and animal. Sharps include used medical waste such as needles, syringes, scalpels, broken glass, culture slides, culture dishes, broken capillary tubes, broken rigid plastic, and exposed ends of dental wires as defined in OSHA 29 CFR 1910.1030.
- Pharmaceutical Waste - waste containing pharmaceuticals e.g. pharmaceuticals that are expired or no longer needed; items contaminated by or containing pharmaceuticals (bottles, boxes), which are not defined as Federal Hazardous Wastes.
- Pathological Waste - Pathological waste includes animal carcasses, organs, tissues, body parts other than teeth, products of conception, and fluids removed by trauma or during surgery or autopsy or other medical procedure, and not fixed in formaldehyde.
- Chemotherapeutic Waste -Vials or other containers that have less than 3% of the original contents by weight, after removing as much of the chemotherapy medicine as feasible. Waste includes:
  - Chemotherapy medicine or a State-only hazardous waste,
  - All empty bags and tubing, needles, containers, gloves, and gowns with chemotherapy medicine remaining from use during chemotherapy infusions,
  - Any PPE or other materials used during chemotherapy infusions that are not visibly contaminated.

Acceptance Conditions:

Proper packaging, labeling and transportation of RMW is mandated by federal and state regulations. RMW must be properly segregated, packaged and labeled in a manner to maintain the integrity of the containers, prevent the leakage or release of waste from the containers, and provide protection from water, rain and the environment while handling and during transportation. RMW packaging and labeling must comply with the following specifications:

RMW Containers Specifications		
Container Type	**Marking**	**Specification**
Sharps Containers	Red color and International Biohazard Symbol.	FDA Approved Class II.
RMW Containers	Any color container with the International Biohazard Symbol. Labeled with "Regulated Medical Waste", generator's name, address, phone number and date sealed.	Meets DOT requirements for Rigid, leak resistant and Tight-fitting covers. Red to ASTM Standards D1709 and D1922.
Pharmaceutical Containers	White and Blue Color Easily distinguished from Sharps, Chemo and other disposal containers.	Leak-Resistant Gasket and Absorbent Pad with tamper evident Label, sturdy, Rigid and meets both DOT and DHS requirements for content restrictions incineration.

alpha bio med
SERVICES
A SHARPS COMPLIANCE COMPANY

Pathology Container	Any color container with the International Biohazard Symbol. Labeled with "PATHOLOGICAL WASTE", generator's name, address, phone number, date sealed and "Incineration Only"	Meets DOT requirements for Rigid, leak resistant and Tight-fitting covers. Red bag tested to ASTM D1709 D1922.
Chemotherapy Containers (Non-sharps)	Any color container, International Biohazard Symbol. Labeled CHEMOTHERAPEUTIC WASTE", generator's name, address, phone number and date sealed.	Meets DOT requirements for Rigid, leak resistant and Tight-fitting covers. Yellow bag to ASTM Standards D1709 and D1922.
Chemotherapy Sharps Container	Yellow color container with International Biohazard Symbol, labeled "CHEMOTHERAPEUTIC WASTE", generator's name, address, phone number and date sealed.	FDA Approved Class II.

My contact information is provided below. On behalf of Alpha Bio/Med Services, LLC., thank you for giving us the opportunity and we look forward to continuing a mutually rewarding partnership.

Sincerely,

David Martin

dmartin@sharpsinc.com
(903) 693-2525

2500-FM-WM0008A Rev. 1/86

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Permit
For
Solid Waste Disposal and/or Processing Facility
FORM NO. 8

Permit No. 400696
Date Issued July 28, 2016
Date Expired July 28, 2026

Under the provisions of the Pennsylvania Solid Waste Management Act of July 7, 1980, Act 97, a permit for a solid waste disposal and/or processing facility at Nesquehoning Borough in the County of Carbon is granted to (permitee) Alpha Bio-Med Services, LLC

(address) 9220 Kirby Drive, Suite 500

Houston, TX 77054

This permit is applicable to the facility named as: Alpha Bio-Med Services, LLC

and described as: Alpha Bio-Med Services, LLC

Latitude 40°, 51', 28"

Longitude - 75°, 51', 42"

This permit is subject to modification, amendment and supplement by the Department of Environmental Protection and is further subject to revocation or suspension by the Department of Environmental Protection for any violation of the applicable laws or the rules and regulations adopted thereunder, for failure to comply in whole or in part with the conditions of this permit and the provisions set forth in the Application No. 400696 which is made a part hereof, or for causing any condition inimical to the public health, safety or welfare.

See Attachment for waste limitations and/or special Conditions.

FOR THE DEPARTMENT OF
ENVIRONMENTAL PROTECTION

1. This permit is issued based on the assumption that the information submitted in Solid Waste Management Application No. 400696, Authorization No. 884550, referenced in Permit Condition 2, is accurate. Any inaccuracies found in this information may be grounds for revocation or modification of this permit and potential enforcement action.

2. This approved application consists of the following:

Form No./Letter	Form Title	Date(Revision)
Form GIF	Permit Application – General Information.	11/9/15(5/6/16)
Attachment 1	RFD for Gas-fired Boiler, Autoclaves and Shredders.	
Figure 1	Site Location Map	
Form A	Application for Municipal or Residual Waste Permit	11/9/15(5/6/16)
Attachment 1	Newspaper Notice	
Attachment 2	County and Municipal Notifications	
Attachment 3	Contiguous Landowner Notifications	
Figure I	Site Location Map	
Figure 2	Contiguous Landowner Map	
Form B	Professional Certification	11/9/15
Form B1	Application Form Certification	11/9/15
Form HWC	Compliance History Certification	11/9/15(5/6/16)
Form D	Environmental Assessment Process for Municipal Waste Management Facilities	11/9/15(5/6/16)
Attachment D1	Section A – Geologic	
Attachment D2	Section B – Scenic Rivers	
Attachment D3	Section C – Wetlands	
Attachment D4	Section D - Parks	
Attachment D5	Section E – Fish, Game and Plants	
Attachment D6	Section F – Water Uses	
Attachment D7	Section G – Recreation	
Attachment D8	Section H – Historic/Archaeologic	
Attachment D9	Section J – Traffic	
Attachment D10		

Attachment D11	Section K – Zoning and Land Use Section M – Air Quality Impact	
Form E	Contractual Consent of Landowner	11/9/15
Attachment 1	Figure E1 Site Location Map	
Form L	Contingency Plan for Emergency Conditions	11/9/15
Attachment L1	PPC Plan	
Figure 1	Site Location Map	
Drawings:		
D-001	Site Plan	
D-002	Operational Plan	
D-003	Building Layout	
Appendices:		
Appendix A	PA DEP Annual Inspection Form	
Appendix B	Directions to Emergency Medical Facilities	
Form P	Incinerators and Other Processing Facilities	11/9/15(5/6/16)
Attachment P1	Form P Narrative	
Attachment P2	Waste Processing Flow Diagram	
Attachment P3	Autoclave and Shredder Equipment Information	
Attachment P4	Standard Operating Plan (SOP)	
Form X	Radiation Protection Plan	11/9/15
Attachment X1	Radiation Protection Plan	
Attachment X2	Personnel Qualifications	
Attachment X3	Figure X-1 Operational Plan	
Form 5	Map Requirements – Transfer Facilities/Composting Facilities/Resource Recovery and Other Facilities	11/9/15
Attachment 5-1	Form 5 Narrative	
Attachment 5-2	Figures, Drawings and Tables	
Drawings:		
D-001	Site Plan	
D-002	Operational Plan	
D-003	Building Layout	
D-004	Closure Plan	
Figures:		
Figure 3	Preliminary Site Setback Evaluation	
Figure 4	Existing Building Elevations	
Figure 5	100 Year Floodplain	
Table 5-1	Facility Setback Requirements	

Form 1	Facility Plan – Operation and Maintenance Manual	11/9/15
Attachment 1-1	Form 1 Narrative	
Form 28	Closure/Post and Bonding Worksheets	11/9/15
Attachment 28-1	Phase 1 Bonding Worksheets	
Attachment 28-2	Phase 1 Worksheet Supplemental Calculations	
Attachment 28-3	Phase 2 Bonding Worksheets	
Attachment 28-4	Phase 2 Worksheet Supplemental Calculations	
Attachment 28-5	Inflation Rate Calculations	
Form 34	Request for Approval to Process Infectious or Chemotherapeutic Waste Streams	11/9/15
	Response to Technical Review Deficiency Letter	5/6/16

3. Approval is herein granted for the operation of a commercial waste processing facility utilizing Mark-Costello Model AS530V autoclave or equivalent with rated capacity of 15 cubic yards (6 bin load at 2.5 cubic yards per bin) with 50 – 75 minutes cycle time, and SSI Shredding Systems, Model QUAD Q55 or equivalent with the capacity of shredding 20 cubic yards per hour, for the treatment of waste confirming to the definition of regulated medical waste, as set forth in 25 Pa. Code Section 271.1. Approval is herein granted for the facility to operate as a transfer station for waste conforming to the definition of regulated medical waste and chemotherapeutic waste as set forth in 25 Pa. Code Section 271.1. Acceptance of hazardous waste (as defined by 25 Pa. Code Section 261a), radioactive waste, residual waste, and other types of municipal waste is prohibited at this site.

4. This permit requires that the Contingency Plan for Emergency Conditions be implemented as described in DEP Form L of the approved application, subject to the following conditions:

   A. The provisions of the approved plan shall be carried out whenever emergency situations arise which endanger public health and safety, or the environment.

   B. A copy of the approved plan and any subsequent revisions shall be maintained on-site. All members of the facility's organization responsible for developing, implementing, and maintaining the plan, and all designated emergency coordinators, shall be trained in and proficient with implementing the plan.

   C. Additional copies of the approved plan shall be distributed to the county and local emergency management agencies, local fire departments and/or Hazmat Teams, local

emergency medical services, and local police departments to the extent to which they may become involved in an actual emergency.

D. The Contingency Plan for Emergency Conditions shall be periodically reviewed and, if necessary, updated. At a minimum, revisions must occur when:

1) Applicable Department regulations are revised;

2) The plan fails in an emergency;

3) The facility changes in its design, construction, operation, maintenance, or other circumstances, in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency;

4) The list of emergency coordinators changes;

5) The list of emergency equipment changes; or

6) As otherwise required by the Department.

5. Approved wastes may be accepted at the facility twenty-four hours a day, seven days a week. Infectious Waste may be processed in the autoclave and shredder twenty-four hours a day, seven days a week, Monday through Sunday. Transfer operations may be conducted twenty-four hours a day, seven days a week, Monday through Sunday.

6. The facility is authorized to be constructed in two phases. Phase I shall operate with one autoclave. A second autoclave shall be added during the Phase II construction. Each autoclave is limited to a maximum daily volume of 41 tons per day. At the completion of Phase I construction, and prior to operation of the facility, Form 37 Certification of Construction Activity, including as-built report(s), and the appropriate validation testing data must be submitted to the Department.

Form 37, Certification of Construction Activity, including as-built report(s) and the appropriate validation testing data must be submitted to the Department after the construction of Phase II of the facility. The maximum operating capacity of the facility after completion of Phase II shall be 82 tons per day.

7. Bond Obligation: The Phase I bond in the amount of $141,300 approved by the Department on 30 June 2016 is hereby made a part of this permit approval. Before operation of Phase II the facility shall obtain the necessary additional bonding approval form the Department. The bond shall be recalculated annually with the annual operations report.

8. Autoclave operating parameters shall be established in accordance with the following (as set forth in 25 PA Code Section 284.322):

A. For facilities with one autoclave or multiple autoclaves that are not identical, each autoclave must have an initial validation test that establishes its operating parameters.

B. For facilities with multiple autoclaves that are identical, one autoclave may have an initial validation test that establishes the operating parameters for all identical autoclaves at that facility.

C. Autoclaves shall be tested using the manufacturer's recommended vacuum pulse plan, operating temperature, operating pressure and residence time at the maximum weight and with the most difficult heat transfer challenge anticipated with the indicators located where disinfection would be most difficult to achieve.

D. If multiple vacuum pulse plans, residence times, temperatures and pressures are recommended, the autoclave shall be tested to validate its performance at each recommended vacuum pulse plan, residence time, temperature and pressure. If a test fails, more stringent operating parameters shall be used incrementally until a satisfactory test and set of operating parameters is determined.

E. Autoclave operating parameters must be validated to achieve a minimum of 250°F or 121°C measured at a point where disinfection would be most difficult to achieve.

F. The residence time required to achieve a 6 log 10 reduction of mycobacteria and a 4 log 10 reduction of Geobacillus stearothermophilus spores for the level of heat transfer challenge selected shall be the residence time set into that autoclave's controls.

G. The vacuum pulse plan, residence time, operating temperature and operating pressure established in the validation test will form the permitted operating parameters for the autoclave tested.

9. The facility shall monitor the regulated medical waste process to ensure the following:

A. The process shall be capable of inactivating mycobacteria at a 6 log 10 reduction or greater.

B. The process shall be capable of inactivating Geobacillus stearothermophilus spores, Bacillus pumilus or Bacillus atrophaeus spores at a 4 log 10 reduction or greater.

10. The facility shall perform process analysis capable of inactivating mycobacteria at a 6 log 10 reduction or greater. The analysis shall be conducted, at a minimum, every 40 hours of autoclave operation. The analyses shall be made available to the Department upon request.

11. The indicator used for autoclave disinfection shall be located prior to disinfection at a point within the load where disinfection will be most difficult to achieve.

12. Unless the Department approves another indicator or test in writing, Geobacillus stearothermophilus shall be used as indicator to establish and verify the autoclave process.

13. The regulated medical waste will be considered to be infectious after disinfection unless the indicator spores are determined by microbiological analysis to have been destroyed in accordance with Condition 8.

14. The facility shall comply with the following:

    A. The processing of pathological waste is prohibited.

    B. The processing of chemotherapeutic waste is prohibited.

15. Compactors, grinders or similar devices may not be used to reduce the volume of regulated medical waste before the waste has been rendered noninfectious. If the volume reduction device is within a continuous, enclosed disinfection process and part of one processing system, then the reduction device may be used.

16. The disinfected regulated medical waste or other processing residue from the facility shall be disposed in a landfill that has been approved by the Department to accept the waste, if the waste is disposed in this Commonwealth.

17. Unless otherwise approved in writing by the Department, an operator of an autoclave facility shall employ the procedures in § 284.322 (relating to autoclave validation testing requirements) to validate the operating parameters and protocols of the processing equipment. These procedures must be employed at an on-going frequency specified by the manufacturer of the autoclave and in the following circumstances:

    A. When a new autoclave is installed.

    B. When an autoclave is modified, repaired or has experienced a malfunction with respect to hardware, software, controls or ancillary equipment.

18. The facility shall maintain a record of the autoclave validation testing protocols and procedures for a minimum of two years.

19. Regulated medical and chemotherapeutic wastes shall be stored and contained in a manner that:

    A. Maintains the integrity of the containers, prevents leakage or release of waste from the containers, and provides protection from water, rain, and wind.

    B. Prevents the spread of regulated medical waste or chemotherapeutic agents.

    C. Affords protection from animals and does not provide a breeding place or a food source for insects or rodents.

    D. Maintains the waste in non-putrescent state, using refrigeration ($\leq 7^{\circ}C$) or freezing ($\leq -18^{\circ}C$) when necessary.

    E. Prevents odors from emanating from the container.

    F. Prevents unauthorized access to the waste. As part of this requirement, the following shall be met:

        1) Enclosures and containers used for storage of infectious and chemotherapeutic waste shall be secured to deny access to unauthorized persons.

2) Enclosures and containers shall also be marked with prominent warning signs indicating the storage of infectious or chemotherapeutic waste.

G. Enclosures that are used for the storage of infectious or chemotherapeutic waste shall be constructed of finish materials that are impermeable and capable of being readily maintained in a sanitary condition. Storage areas shall be ventilated to minimize human exposure to the exhaust air.

H. Regulated medical and chemotherapeutic waste may not be comingled with other waste in the same container.

20. Regulated medical and chemotherapeutic waste may not be stored at the facility for more than the following periods:

A. Seventy-two hours at an ambient temperature, unless the waste becomes putrescent or attracts vectors.

B. Seven days in a refrigerator at $\leq 7^{\circ}C$, unless the waste becomes putrescent or attracts vectors.

C. Thirty days in a freezer at $\leq -18^{\circ}C$, unless the waste becomes putrescent or attracts vectors.

21. This permit requires that the Radiation Protection Plan be implemented as described in DEP Form X of the approved application, subject to the following conditions:

A. All waste delivered to the facility shall be monitored according to the approved Radiation Protection Plan.

B. The Department reserves the right to recover costs associated with Department involvement in activities related to the Radiation Protection Plan.

C. The permittee shall maintain records of each instance in which radioactive material is detected at the site for the life of the facility. A summary of that information indicating, at a minimum, the date of detection, alarm level, identified radionuclide, and disposition of the radioactive material shall be compiled for each calendar year and included in the Annual Operation Report submitted in accordance with Permit Condition No. 48 below.

22. Prior to commencing waste acceptance at the facility, the Permittee shall develop a report, acceptable to DEP, that provides the following minimum information for each generator or non-affiliated transporter of waste accepted for processing at the facility for each calendar quarter reporting period:

A. For each waste stream received at the permitted facility during the quarter (except waste sharps from residential use):

1) The permittee assigned application number.
2) The source of the waste.
3) The types of the waste.
4) The amount of each type of waste.

5) The disposition of the waste (processed on site, awaiting processing, transferred off site or awaiting off-site processing).

B. Additionally, the following shall be included in any quarterly reports:
1) A description of waste handling problems or emergency disposal activities.
2) A record of deviations from the approved design of operational plans.
3) A record of rejected waste loads and the reasons for rejecting the loads.
4) A record of each incident in which radioactive material is detected in waste loads.
5) Certification that the process has met the requirements of Conditions 8 and 9 regarding microbiological analysis.

Reports shall be maintained at the facility for a minimum of two years.

For the purposes of this condition, non-affiliated transporters shall mean transporters not affiliated with the Permittee (Alpha Bio-Med Services, LLC) or its related parties. Calendar quarter reporting periods shall be January 1 through March 31, April 1 through June 30, July 1 through September 30, and October 1 through December 31. Compliance with this condition shall be deemed to satisfy the requirements of 25 Pa. Code § 271.611.

23. The quarterly report shall be submitted, no later than thirty (30) days after the end of each calendar quarter, beginning with the first quarter waste is accepted. The quarterly report shall be submitted to the Department's Northeast Regional Office, 2 Public Square, Wilkes-Barre, PA 18701; Waste Management Program Manager.

24. Regulated medical or chemotherapeutic waste shall be placed in containers that are leak-proof, impervious to moisture, and sufficient in strength to prevent puncturing, tearing, or bursting during storage. Additionally, used sharps shall be stored in containers that are rigid, tightly lidded, and puncture resistant.

25. For onsite or offsite transportation of regulated medical or chemotherapeutic waste, the outermost containers of regulated medical or chemotherapeutic waste must be labeled with the following:

A. The words ''chemotherapeutic waste'' if chemotherapeutic waste is placed in the container.

B. Until November 8, 2016, the words ''infectious waste'' or ''regulated medical waste'' if regulated medical waste is placed in the container.

C. After November 8, 2016, the words ''regulated medical waste'' if regulated medical waste is placed in the container.

D. The universal biohazard symbol that conforms to the design in 29 CFR 1910.1030(g)(1)(i)(B) (relating to bloodborne pathogens) and the word ''BIOHAZARD.''

E. The date the container was full or the date that the generator sealed the container, whichever occurs earlier.

F. The name, address and telephone number of the generator if the waste is transported offsite.

26. The requirements of Condition 25 do not apply if the outermost container is a vehicle or conveyance, including a roll-off, and the following are satisfied:

A. The waste in the vehicle or conveyance is from a single generator.

B. The vehicle or conveyance is transported offsite for processing or disposal every 30 days.

C. The vehicle or conveyance complies with the requirements of §284.513 (relating to transportation of regulated medical and chemotherapeutic waste; additional provisions).

D. The outside of the vehicle or conveyance displays the information required in Condition 25(E) of this permit, except when a record of the date the vehicle or conveyance is full or sealed, whichever occurs earlier, is maintained by the generator and available for inspection by the transporter or Department for 1 year.

E. The outside of the vehicle or conveyance displays the information required in Condition 25(F) of this permit.

27. Nonwall-mounted used sharps containers storing regulated medical waste must have fluorescent orange, orange-red or red markings and chemotherapeutic waste must have yellow markings. The markings must sufficiently identify the waste as regulated medical or chemotherapeutic waste.

28. The information required under Section 284.414, relating to marking of containers, must be clearly legible and produced with indelible ink in a color that contrasts with the color of the container, such as black. If a label is used to provide the information, the label must be securely attached to the container.

29. Reuse of containers shall follow the guidelines below:

A. Nonrigid containers shall be managed as either regulated medical or chemotherapeutic waste based upon the contents of the container. These containers may not be reused.

B. Corrugated fiberboard containers used for storage of regulated medical or chemotherapeutic waste may be reused if the surface of the container has been protected from direct contact with the waste.

C. A rigid, nonfiberboard container used for the storage of regulated medical waste or chemotherapeutic waste may be reused if one of the following applies:

1) The container has been decontaminated utilizing a Department-approved decontamination procedure.
2) The surface of the container has been protected from direct contact with regulated medical and chemotherapeutic waste, as applicable.

30. In accordance with Section 284.419, processing residue from regulated medical or chemotherapeutic waste processing facilities shall be stored in an enclosed container, which

may include a properly tarped container, or in an enclosed area, which may include an adequately ventilated building, to:

A. Prevent the release, dispersal or discharge of processing residue into the air, water or onto land.

B. Afford protection from animals, rain and wind.

C. Prevent the development of a breeding place or food source for insects or rodents.

D. Prevent the leakage of waste from the storage container.

31. Processing residue from a regulated medical or chemotherapeutic waste processing facility may be commingled with other municipal waste if the commingled waste is from one generator and if storage of the commingled waste is in accordance with Condition 30 above.

32. Regulated medical waste, chemotherapeutic waste or processed regulated medical or chemotherapeutic waste that is recognizable may be transported to or from a transfer facility in accordance with the following:

A. The transfer facility is permitted by the Department.

B. If transported to a transfer facility, the transfer facility shall be considered the designated facility for purposes of this permit.

C. If transported from the transfer facility to a processing or disposal facility, the transfer facility shall be considered the generator and the processing or disposal facility shall be considered the designated facility for purposes of this permit.

33. The following guidelines shall be adhered to in preparation and use of log and shipping papers for the transportation of regulated medical or chemotherapeutic waste, per Section 284.722:

A. Before transporting regulated medical or chemotherapeutic waste or processed regulated medical or chemotherapeutic waste that is recognizable, the transporter shall provide the generator with a dated signature, including, but not limited to, handwritten, electronic or stamped signatures, from an authorized representative of the transporter acknowledging that the transporter has accepted the waste from the generator on the date of acceptance.

B. The transporter shall ensure that the log or shipping paper required under subsections (c) and (d) accompanies the waste shipment.

C. A transporter who delivers regulated medical or chemotherapeutic waste or processed recognizable waste to the designated processing or disposal facility shall create a log or shipping paper containing the following information:

1) The date that each container of waste was delivered to a designated facility.
2) The name and address of the designated facility for each container of waste.

D. The transporter who delivers regulated medical or chemotherapeutic waste to another transporter shall create a log or shipping paper containing the following information:

1) The date that each container of waste was delivered to the subsequent transporter.
2) The name and address of the subsequent transporter that received each container of waste.

E. At the time the waste is delivered to the designated facility or subsequent transporter, the transporter shall provide the operator of the designated facility or subsequent transporter with a log or shipping paper containing the following information:

1). The name, mailing address and telephone number of the generator for each container of waste.
2). The number of containers, types of containers and the total quantity of the waste by weight or volume for each generator.

F. After the waste has been transported to the designated facility, the transporter shall provide the generator with a log or shipping paper containing the following information:

1). The name, mailing address and telephone number of each designated facility that received each container of the generator's waste.
2). The number of containers, types of containers and the total quantity of the waste by weight or volume received by each designated facility.
3). The date that each designated facility received each container of the generator's waste.
4). Acknowledgment from the designated facility that it accepted each container of the generator's waste.

34. Logs or shipping papers shall be used to record waste acceptance at the facility per Chapter 284 and Subchapter H of the regulation:

A. An operator of a designated facility may not accept shipments of regulated medical or chemotherapeutic waste or processed regulated medical or chemotherapeutic waste that is recognizable from offsite sources unless the shipment is accompanied by a log or shipping paper.

B. The operator of the designated facility shall:

1) Examine the records of the transporter.
2) Note significant discrepancies in the log or shipping paper of the generator and transporter, as defined in Condition 35.
3) Provide the transporter with a dated signature, including, but not limited to, handwritten, electronic or stamped signatures, from an authorized representative of the facility, acknowledging that it has accepted the waste from the transporter on that date.

35. This condition applies if there is a significant discrepancy in the logs or shipping papers of the generator and transporter. A discrepancy is a difference between the quantity or type of waste designated in the log or shipping paper, and the quantity or type of waste a facility actually receives. A significant discrepancy occurs if one or more of the following apply:

A. There is a variation greater than 5% in weight, for bulk waste.

B. There is a variation in piece count, for batch waste, excluding 1% variation for generator-loaded trailers.

C. There is difference in waste type which can be discovered by inspection or waste analysis.

36. If there is a significant discrepancy in the logs or shipping papers, the operator shall attempt to reconcile the discrepancy before the waste is processed or disposed of at the facility or before the waste is accepted at a transfer facility. If the discrepancy is not resolved within 3 business days of receipt of the waste, the operator shall immediately notify the appropriate regional office of the Department by telephone. Within 7 business days of receipt of the waste, the operator shall also send a letter to the regional office describing the discrepancy and attempts to reconcile it.

37. The records required under this permit shall be retained for at least 2 years from the date on which the record was prepared. Records shall be submitted to the Department upon request. The retention period will be extended automatically during the course of an enforcement action or as requested by the Department.

38. This permit is issued in accordance with the Solid Waste Management Act, the Act of July 7, 1980, P.L. 380, 35 P.S. Section 6018.101 et seq; Municipal Waste Planning, Recycling and Waste Reduction Act of 1988, 53 P.S. Sections 4000.101-4000.1904; Air Pollution Control Act of June 8, 1960, P.L. 2119, 35 P.S. Sections 4001-4015 et seq.; the Clean Streams Law, Act of June 22, 1937, P.L. 1987, as amended and the regulations promulgated pursuant to these acts.

39. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions of this permit shall apply.

40. Any final operational, design or other plan developed subsequent to permit issuance which exhibit changes in structure, location, specification or other changes of substance shall be submitted to the Department for subsequent permit action. Any deviation from the plans herein approved shall not be implemented before first obtaining a permit amendment or written approval from the Department.

41. Approval of any plans or facilities herein refers to the functional design, but does not guarantee operational efficiency. Failure of the measures and facilities herein approved to perform as intended, or as designed, or in compliance with the applicable laws, rules and regulations, and terms and conditions of this permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this permit.

42. This permit shall not be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulations; providing that said

local law, ordinance, regulation, or condition is not preempted by the Pennsylvania Solid Waste Management Act, the Act of July 7, 1980, P.L. 380, No. 97, 35 P.S. 6018.101 et seq., or the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988, 53 P.S. Sections 4000.101-4000.1904.

43. This permit does not authorize nor shall be construed as an approval to discharge industrial waste, including without limitation, any leachate discharge from the permitted area without first obtaining necessary permits required by the Clean Streams Law.

44. As required by 25 Pa. Code Section 271.212(4), Conditions of Permit, the permittee shall notify the Department within 45 days, on a form prepared by the Department, after the transfer has occurred of a controlling interest in the owner or operator, if the transfer does not require a permit modification under Section 271.144 (relating to public notice and public hearings for permit modifications) or a permit reissuance under Section 271.221 (relating to permit reissuance). The notification shall contain the same information relating to the person who obtained the controlling interest as is required of a permit applicant in a permit application under Sections 271.124 and 271.125(a) (municipal) (relating to identification of interest; and compliance information). A "controlling interest" means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of a person, whether through the ownership of voting securities, by contract or otherwise.

45. As a condition of this permit and of the permittee's authority to conduct the activities authorized by this permit, the permittee hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credentials and without delay, to have access and to inspect all areas or permittee controlled adjacent areas where solid waste management activities are being or will be conducted. This authorization and consent shall include consent to collect samples of waste, water, or gases, to take photographs, to perform measurements, surveys, and other tests; to inspect any monitoring equipment; to inspect the methods of operation; and to inspect and/or copy documents, books, and papers required by the Department. This permit condition is referenced in accordance with Sections 608 and 610.7 of the Solid Waste Management Act and 25 Pa. Code Section 271.123.

46. Any change to independent contractors or agents retained by the permittee to construct or operate this site shall be subject to prior compliance history review by the Department as specified by the Pennsylvania Solid Waste Management Act, the Act of July 7, 1980, P.L. 380, No. 97, 35 P.S. 6018.101, et seq.

47. Certification of the equipment installation at this facility shall be submitted to the Department by a professional engineer, registered in the Commonwealth of Pennsylvania, upon completion of construction. The permittee must notify the Department in writing, within seventy-two (72) hours, before commencing construction. The permittee shall submit one original and one copy

of as-built drawings and the construction certification report document to the Department upon completion of the construction activity.

The Department must approve certification reports prior to any waste processing.
A registered Pennsylvania professional engineer shall certify in writing on Form 37, provided by the Department, for each phase of the construction, under penalty of law respecting unsworn falsification to authority (18 Pa. C.S. Section 4904), indicating that he/she has personally examined the construction of said phase and it is constructed and prepared in accordance with the documents, statements, design, and plans submitted as part of the application as approved by the Department.

48. Copies of the Annual Operation Report as required in 25 Pa. Code Sections 279.252 and 283.262 shall be submitted to the Department on or before June 30 of each year. The Annual Operation Report shall be submitted on forms provided by the Department or other approved format. An original and one copy of the Annual Operation Report shall be submitted to:

Department of Environmental Protection
Program Manager, Waste Management Program
2 Public Square
Wilkes-Barre, PA 18701

APPENDIX J

FINANCIAL ASSURANCE DOCUMENTATION

Bonding Worksheet A

NO.	Description		Amount	Unit	Justification
1	Maximum Volume removed from storage in pounds		288,000	lbs.	See Tab "Calculations"
2	Number of Containers (288,000 lbs. / 50 lbs.)		5,760	Containers	(line 2 X line 3)
3	Unit cost of off-site (including removal, transportation and disposal)	$	25.00	$/container	
4	Equipment removal (radiations Monitors, Pallet Jacks, Eye washing and scale)		1	LS	8 Hours X $50/H X 3 Man Crew
5	Unite cost to decontaminate and remove equipment	$	1,200	LS	
6	Area exposed surfaces to be decontaminated (floor, walls, etc.)		20,000	Sq.	20,000 sq. ft. X $ .25/ sq. FT.
7	Unite cost to decontaminate surfaces	$	0.25	$ Sq.	
8	Number of verification samples needed to verify decontamination		25		$100/Sample X 25 Samples
9	Unit cost to sample, analyze and report results	$	100	$/Sample	
10	Cost of analysis	$	2,500	LS	Lump Sum Estimate
11	Maintenance	$	1,500	LS	Lump Sum Estimate
12	Engineering and QC/QA costs	$	750	LS	Labor= 6 Hrs. X $125/Hr.
Cost Summary					
a.	Waste removal (Line 2 X Line 3)	$	144,000		Line 2 X Line 3
b.	Equipment Decontamination (Line 4 X Line 5)	$	1,200		Line 4 X Line 5
c.	Surface decontamination (line 6 X Line 7)	$	5,000		Line 6 X Line 7
d.	Sampling and analysis (Line 8 X line 9)	$	2,500		Line 8 X Line 9
e.	Maintenance (Line 11)	$	1,500		Line 11
f.	QA/QC (line 12)	$	750		Line 12
	Total	**$**	**154,950**		

Bonding Worksheet B

Cost Summary - Waste Processing					
1	Decontaminating the facility	**$**	**154,950**		
2	Surface water monitoring	$	-	N/A	
3	Groundwater monitoring	$	-	N/A	
4	Other monitoring	$	-	N/A	
5	Other costs	$	-	N/A	
	Subtotal	**$**	**154,950**		
Inflation					
6	Inflation rate (projected for the next three years based on the inflation for prior three years)		5.77%		See Tab "Inflation Rate Calculations"
7	Inflation cost for the facility (subtotal X Line 6)	$	8,940.62		
Contingency and Administration Fees					
8	Administration Fee (5%) (subtotal X 0.1)	$	7,748		
9	Contingency Fee (subtotal X rate of Contingency fee from table 1 10%)	$	15,495		
	Total (subtotal + Line 7 + Line 8 + Line 9)	**$**	**187,133**		

Calculations For Inflation

Source: Survey of Current Business; U.S. Department of Commerce/Bureau of Economics
EPA Hotline: 800-424-9346
Fixed - Weighted Price Indexes for Gross National Products

	Base	**Annual**		
	2011	103.500	2.0000	1.93%
	2012	105.500	1.6000	1.52%
	2013	107.100	1.8000	1.68%
	2014	108.900	0.7000	0.64%
	2015	109.600		
Inflation Rate				**5.77%**

Source
http://www.bea.gov/national/index.htm

Maximum RMW Volume Calculation

Tons Per Day	Max Tons (72 Hours)	Convert to Lbs.	Average Weight /Container (lbs.)	Max Number of Containers (3 days)
48	144	288,000	50	5760

alpha bio med
SERVICES
A SHARPS COMPLIANCE COMPANY

October 26, 2017

Al Aladwani
Sharps Compliance, Inc.
9220 Kirby Drive, Suite 500
Houston, TX 77056

Dear Al:

On behalf of Alpha Bio/Med Services, Inc. ("Alpha") I am pleased to present the following quote for Sharps Compliance, Inc., facility located at 893 Shepherd Ave, Brooklyn NY, 11208. The quote includes cleaning, decontamination, transportation and disposal of regulated medical waste:

1.	Removal, transportation and disposal of estimated 5,800 medical waste containers with maximum 50 pounds per container.	$73.00/Container	**$423,400.00**
2	Removal, transportation and proper disposal of all equipment associated with the handling of regulated medical waste.	Lump Sum	**$45,000.00**
3.	Cleaning and Decontamination of surfaces, walls and equipment and tools.	Lump sum	**$97,000.00**
4.	Removal and disposal of all trash and debris.	Lump Sum	**$5,000.00**
Total Cost:			**$570,400.00**

Please review our proposal and do not hesitate to contact us with any questions you may have. We welcome you to visit our manufacturing facility in Nesquehoning, PA. Thank you for your interest, and we look forward to hearing from you.

Sincerely,

Jason Folker
Operations Manager
Alpha Bio/Med Services, LLC.
3246 Lincoln HWY E.
Paradise, PA 17562
jfolker@sharpsinc.com
(713) 353-1176

October 23, 2017

David Martin
Sharps Compliance, Inc,
9220 Kirby Driev, Suite 500
Houston, TX 77056

Dear David:

Thank you for allowing Elk Environmental Services the opportunity to assist you with your environmental needs. We are pleased to provide you with the following price quotation for the cleaning, decontamination, transportation and disposal of regulated medical waste facility located at 893 Shepherd Ave, Brooklyn NY, 11208:

Transportation & Disposal of Medical Waste: ..... $435,000.00/ lump sum

- Est. 5,800 boxes at $75/box, maximum 50 pounds.

Crew to Remove Equipment & Decontaminate Facility: ..... $128,000.00/ lump sum

- (6) man crew for (4) weeks
- Includes: mobilization, equipment, tools, supplies, hotels, per diems, and debris transportation & disposal

Estimated Total Cost $563,000.00

****When Applicable, 6% PA Sales Tax Will Apply****
****Price Quoted Is Pending Facility Approval****
****All Applicable Taxes, Disposal Fees and Tolls Will Be Charged****

If disposal is required, the Customer acknowledges having selected the disposal option listed above at their sole discretion. Additional disposal options may be available upon request.

Elk Environmental Services' Terms and Conditions are attached and become part of this quotation. We appreciate the opportunity to provide you with the above quotation and look forward to working with you in the near future. To accept this quote, please sign and return the last page of the Terms and Conditions. If you have any questions about your quotation or our services, please contact me at (610) 372-4760 or (800) 851-7156.

Sincerely,

Rick Dom
Account Manager
Elk Environmental Services

Sharps
Environmental Services

October 23, 2017

Al Aladwani
Sharps Compliance, Inc,
9220 Kirby Driev, Suite 500
Houston, TX 77056

Dear Al:

Sharps Environmental Services, is pleased to present the following quote for Sharps Compliance, Inc., facility located at 893 Shepherd Ave, Brooklyn NY, 11208. The quote includes cleaning, decontamination, transportation and disposal of regulated medical waste:

1.	Removal, transportation and disposal of estimated 5,800 medical waste containers with maximum 50 pounds per container.	$74.00/Container	**$4239,200**
2	Removal, transportation and proper disposal of all equipment associated with the handling of regulated medical waste.	Lump Sum	**$33000,00**
3.	Cleaning and Decontamination of surfaces, walls and equipment and tools.	Lump sum	**$110,000.00**
4.	Removal and disposal of all trash and debris.	Lump Sum	**$7,000.00**
Total Cost:			**$579,200.00**

Please review our proposal and do not hesitate to contact us with any questions you may have.

Thank you for your interest, and we look forward to hearing from you.

Sincerely,

D. Martin

David Martin
Operations Director
1544 NE Loop,
Carthage, TX 75633
dmartin@sharpsinc.com
(903) 693-2525

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

TRUST AGREEMENT

[or insert STANDBY TRUST AGREEMENT if established as a standby trust to receive funds from a letter of credit, surety bond or other instrument]

TRUST AGREEMENT, the "Agreement," entered into as of [date] by and between [name of the owner or operator], a [name of State] [insert "corporation," partnership," "association," or "proprietorship"], the "Settlor," and [name of corporate trustee], [insert "incorporated in the State of _____" or "a national bank"], the "Trustee."

WHEREAS, the New York State Department of Environmental Conservation (hereinafter referred to as "Department") has established certain regulations applicable to the Settlor, requiring that an owner or operator of a solid waste management facility shall provide financial assurance that funds will be available when needed [insert "for facility closure, and/or post-closure monitoring and maintenance, and/or custodial care monitoring and maintenance, and/or corrective measures, if necessary" or other language upon written approval of the commissioner of Department which limits or reduces the extent of the activities funded by this trust] [hereinafter referred to as [insert "Closure, Post Closure, Custodial Care and Corrective Measures"], and

WHEREAS, the Settlor has elected to establish a trust to provide all or part of such financial assurance for the [facility or facilities] identified herein, and

WHEREAS, the Settlor acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee,

NOW, THEREFORE, the Settlor and the Trustee agree as follows:

Section 1. 'Definitions'. As used in this Agreement:

(a) The term 'Settlor' means the owner or operator who enters into this Agreement and any successors or assigns of the Settlor.

(b) The term 'Trustee' means the Trustee who enters into this Agreement and any successor Trustee.

(c) The term 'Commissioner' means the Commissioner of Environmental Conservation, or the Commissioner's duly appointed designee.

Section 2. 'Identification of Facilities and Cost Estimates'. This Agreement pertains to the [facility or facilities] and cost estimates identified on attached Schedule A [on Schedule A, for each facility, list the Department identification numbers, names, addresses, and the costs, as established or approved by the Commissioner, per facility for Closure, Post-Closure, Custodial Care and Corrective Measures, or portions thereof, for which financial assurance is demonstrated by this Agreement].

Section 3. 'Establishment of Fund'. The Settlor and the Trustee hereby establish a trust fund (hereinafter referred to as the "Fund") for the sole benefit of the Department. The Settlor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in

Schedule B annexed hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible, nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Settlor, any payments necessary to discharge any liabilities of the Settlor established by the Department.

Section 4. 'Payment for Closure, Post-closure, Custodial Care and Corrective Measures'. The Trustee shall make payment from the Fund as the Commissioner shall direct, in writing, to provide for the payment of the costs of Closure, Post-closure, Custodial Care and/or Corrective Measures of the facilities covered by this Agreement. The Trustee shall reimburse the Settlor or other persons as identified by the Commissioner from the Fund for the expenditures of such covered activities in such amounts as the Commissioner shall direct in writing. In addition, the Trustee shall refund to the Settlors such amounts as the Commissioner specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. 'Payments Comprising the Fund'. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. 'Trustee Management'. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in compliance with general investment policies and guidelines which the Settlor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his or her duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(a) Securities or other obligations of the Settlor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, 15 USCA 80a-2(a), incorporated by reference in Section 360.3 of this Part, shall not be acquired or held, unless they are securities or other obligations of the Federal or a state government;

(b) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or a state government; and

(c) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. 'Commingling and Investment'. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 USCA 80a-1 'et seq.', including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. 'Express Powers of Trustee'. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government;

(e) To accept additions to the Fund from sources other than the Settlor of the Trust; and

(f) To contest, compromise, or otherwise settle any claim in favor of the Fund or Trustee, or in favor of third persons and against the Fund or Trustee.

Section 9. 'Taxes and Expenses'. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the trustee to the extent not paid directly by the Settlor, and all of the proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. 'Annual Valuation'. The Trustee shall annually, at least 30 days before the anniversary date of establishment of the Fund, furnish to the Settlor and to the Commissioner, a statement confirming the value of the Trust. Any securities in the fund shall be valued at market value as of no more than 60 days before the anniversary date of the establishment of the Fund. The failure of the Settlor to object in writing to the Trustee within 90 days after the statement has been furnished to the

Settlor and to the Commissioner shall constitute a conclusively binding assent by the Settlor, barring the Settlor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement. [For a standby trust agreement, insert "This provision does not apply to a standby trust fund until payments have been made to the Fund"]

Section 11. 'Advice of Counsel'. The Trustee may from time to time consult with counsel, who may be counsel to the Settlor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. 'Trustee Compensation'. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Settlor.

Section 13. 'Successor Trustee'. The Trustee may resign or the Settlor may replace the Trustee, but such resignation or replacement shall not be effective until the Settlor has appointed a Successor Trustee and this successor accepts the appointment. The Successor Trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the Successor Trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the Successor Trustee the funds and properties then constituting the Fund. If for any reason the Settlor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a Successor Trustee or for instruction. The Successor Trustee shall specify the date on which it assumes administration of the trust in writing sent to the Settlor, the Commissioner, and the present Trustee by certified mail, return receipt requested, 30 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this section shall be paid as provided in section 9.

Section 14. 'Instructions to the Trustee'. All orders, requests, and instructions by the Settlor to the Trustee shall be in writing, signed by such persons as are designated in the attached Schedule C or such other designees as the Settlor may designate by amendment to Schedule C. The Trustee shall be fully protected in acting without inquiry in compliance with the Settlor's orders, requests, and instructions. All orders, requests, and instructions by the Department to the Trustee shall be in writing, signed by the Commissioner, and the Trustee shall act and shall be fully protected in acting in compliance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Settlor or Department hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Settlor and/or Department except as provided for herein.

Section 15. 'Notice of Nonpayment'. The Trustee shall notify the Settlor and the Commissioner, by certified mail, return receipt requested, [if annual payments are to be made to the Fund insert "within 30 days after each anniversary of the establishment of the Trust" or if payments are to be made on a different basis, such as monthly or quarterly, then insert other language approved by the Department], if no payment is received from the Settlor during that period. After the pay-in period is completed, the Trustee shall not be required to send a notice of nonpayment. [For a standby trust agreement, insert "This provision does not apply to a standby trust fund unless and until payments have been made to the Fund."]

Section 16. 'Amendment of Agreement'. This Agreement may be amended by an instrument in writing executed by the Settlor, the Trustee, and the Commissioner or by the Trustee and the Commissioner if the Settlor ceases to exist.

Section 17. 'Irrevocability and Termination'. Subject to the right of the parties to amend this Agreement as provided in section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Settlor, the Trustee, and the Commissioner, or by the Trustee and the Commissioner if the Settlor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Settlor.

Section 18. 'Immunity and Indemnification'. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in the carrying out of any directions by the Settlor or the Commissioner issued in compliance with this Agreement. The Trustee shall be indemnified and saved harmless by the Settlor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Settlor fails to provide such defense.

Section 19. 'Choice of Law'. This Agreement shall be administered, construed, and enforced according to the laws of the State of New York.

Section 20. 'Fund Not an Asset of Settlor in Bankruptcy'. It is the Settlor's legal and equitable obligation under the permit and other applicable law, which obligation is not limited to the value of the Fund, to provide for the payment of the costs of Closure, Post-closure, Custodial Care, and/or Corrective Measures of the [facility or facilities], inter alia, in accordance with the terms of the permit, any subsequent modifications thereof, and 6 NYCRR Parts 360, 361, 362, 363, and 365. This trust is irrevocable and created for the sole benefit of the Department. The parties agree that normal principles of trust law apply, and that legal Title to the Fund shall be in the trustee and the Department, to ensure, inter alia, Proper Closure, Post-Closure, Custodial Care and/or Corrective Measures are carried out at the [facility or facilities] without adverse environmental or health impacts. The Settlor shall have no property interest in the Fund except a contingent remainder interest which shall entitle it to receive, upon the completion of Closure, Post-Closure, Custodial Care and/or Corrective Measures to the satisfaction of the Department, any funds remaining in the trust in excess of such costs and the final administrative costs of the trustee and the Fund. The interest of any beneficiary, including any contingent remainder interest, of any trust created hereunder, either as to income or principal, shall not be anticipated, alienated or in any manner assigned by such beneficiary or contingent remainder interest holder, and shall not be subject to any legal process, bankruptcy proceedings or the interference or control of creditors or others.

Section 21. 'Interpretation'. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed, if appropriate, and attested as of the date first written below. The parties below certify that the wording of this Agreement is

identical to the wording identified in 6 NYCRR 360.22(e)(3) as such regulations were constituted on the date first written below.

_____
Settlor

_____
Title

_____
Company Name

_____
Trustee

_____
Title

_____
Banking Institution or Trust Company

(ACKNOWLEDGMENT BY TRUSTEE) within New York

State of New York }
} ss.:
County of }

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public

(ACKNOWLEDGMENT BY TRUSTEE) outside New York

[Insert State, District of Columbia, Territory, Possession or Foreign Country]} ss.

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the [Insert the City or other political subdivision and the state or country or other place the acknowledgement was taken].
Signature:_____

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

Name:_____

Office:_____

(ACKNOWLEDGMENT BY SETTLOR) within New York

State of New York }
} ss.:
County of }

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public

(ACKNOWLEDGMENT BY SETTLOR) outside New York

[Insert State, District of Columbia, Territory, Possession or Foreign Country]} ss.

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the [Insert the City or other political subdivision and the state or country or other place the acknowledgement was taken].

Signature:_____

Name:_____

Office:_____

Schedule A
Identification of Facility(ies) and Cost Estimates

[Provide the following information for each facility covered under the Trust Agreement.]

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

Name and Address of Facility(ies)_____

_____

_____

NYS DEC Identification Number(s): _____

Cost estimate(s):

Closure_____
Post-Closure Care_____

Custodial Care_____

Corrective Measures_____

Total_____

Schedule B
Identification of Property

The fund is established initially as consisting of the following:

Amount:$_____

Type of property: [identify the type of property used to establish the fund (e.g., cash, check, etc.)]
Source: [identify the name of the source of the funds (e.g., bank, facility owner or operator, etc.)]
Date: [insert date].

[For a Standby Trust Agreement insert "This agreement will be funded by the following:
Type of property and number: [Letter of Credit and #, Surety Bond and #, cash, etc.]
Issued by: [identify the name of the source of the funds (e.g.,. bank, facility owner or operator, etc.)]
Date: [insert date] in accordance with the terms of [(e.g., Letter of Credit, Surety Bond, etc.)]."]

Schedule C
Identification of Authorized Personnel

Any orders, requests or instructions by the Settlor to the Trustee may be signed by any one of the following persons:
[Provide the following contact information for each person authorized to give orders, requests or instructions.]

_____

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

Title:
Name:

_____

_____

Phone Number:_____

(4) A surety bond, as identified in paragraph (d)(2) of this section, must be worded exactly as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

SURETY BOND
(Financial Guarantee Bond)

Bond Number:

_____

Date bond executed:

_____
[If more than one Surety, identify bond number with respective Surety]

Effective date:

_____

Principal:

_____
[Legal name and business address of owner or operator]

Type of organization:

_____
[Insert "individual," "joint venture," "partnership," or "corporation"]

State of Incorporation:

_____

Surety(ies):

_____
[Name(s) and business address(es) of Surety(ies)]

Obligee: New York State Department of Environmental Conservation (hereinafter referred to as "Department")

Department identification numbers, name, address, and closure, post-closure, custodial care, and/or corrective measures amount(s) for each facility guaranteed by this bond [indicate facility and closure, post-closure, custodial care and corrective measures amounts separately]:

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

_____

_____

_____

Total penal sum of bond: $ _____ (payable in good and lawful money of the United States of America)

NOW, THEREFORE, Know All Persons By These Presents, that we, the Principal and Surety(ies) hereto are held and firmly bound to the Department in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under Environmental Conservation Law (ECL) Article 27, to have a permit in order to operate each solid waste management facility identified above; and

WHEREAS said Principal is required to provide financial assurance for closure, post-closure care, custodial care and/or corrective measures as referred to above, as a condition of the permit(s); and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of the obligation are such that if the Principal shall faithfully perform and complete [insert “closure”, “post-closure care”, “custodial care” “and/or corrective measures”] whenever required to do so at each facility for which this bond guarantees payment for [“closure”, “post-closure care”, “custodial care” “and/or corrective measures”] in compliance with the [“closure plan”, “post-closure care plan”, “custodial care plan” “and/or corrective measures plan”] and other requirements of the permit, applicable rules, regulations, and orders of the department, and applicable provisions of the laws of the State of New York,

OR, if the Principal shall faithfully, before the beginning of final closure of each facility for which this bond guarantees payment, fund the standby trust fund in the amount(s) identified above for each facility,

OR, if the Principal shall fund the standby trust fund in such amount(s) within 15 days after an order to begin closure is issued by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner’s duly appointed designee (hereinafter referred to as the “Commissioner”) or a United States district court or other court of competent jurisdiction,

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

OR, if the Principal shall provide alternate financial assurance, as identified in 6 NYCRR Section 360.22(d), as applicable, and obtain the Commissioner's written approval of such assurance, within 90 days after the date notice of cancellation is received by both the Principal and the Department from the Surety(ies), then this obligation shall be null and void, otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon notification by the Commissioner that the Principal has failed to perform as guaranteed by this bond, the Surety(ies) shall provide funds up to the amount guaranteed for the facility(ies) into the standby trust fund or as otherwise directed by the Commissioner.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) hereby waive(s) notifications of amendments to closure, post-closure, custodial care and/or corrective measures plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate the Surety's obligation on this bond.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail, return receipt requested, to the Principal and the Commissioner, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the Commissioner, as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies), provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the Commissioner.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees the current closure, post-closure and/or corrective measures amount, provided that no decrease in the penal sum takes place without the written permission of the Commissioner.

IN WITNESS WHEREOF, the Principal and Surety(ies) have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording of this surety bond is identical to the wording identified in 6 NYCRR Section 360.22(e)(4), as such regulations were constituted on the date this bond was executed.

PRINCIPAL

(Signature(s))_____

(Name(s))_____

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

(Title(s))_____

(Corporate Seal)_____

CORPORATE SURETY(IES)

[Name and Address]

State of Incorporation:

_____

Liability Limit: (For each facility, and in the aggregate)

$_____

(Signature(s))_____

(Name(s) and Title(s))

_____

(Corporate Seal)

[For every co-surety, provide signature(s), corporate seal if appropriate, and other information in the same manner as for Surety above.]

Bond Premium: $_____

(ACKNOWLEDGMENT BY TRUSTEE) within New York

State of New York }
} ss.:
County of}

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public

(ACKNOWLEDGMENT BY TRUSTEE) outside New York

Appendix J
Sample Trust Fund Agreement/Surety Bond
(360.22(e)(3))

[Insert State, District of Columbia, Territory, Possession or Foreign Country]} ss.

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the [Insert the City or other political subdivision and the state or country or other place the acknowledgement was taken].

Signature:_____

Name: _____

Office:_____

(ACKNOWLEDGMENT BY SETTLOR) within New York

State of New York }
} ss.:
County of}
On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public

(ACKNOWLEDGMENT BY SETTLOR) outside New York

[Insert State, District of Columbia, Territory, Possession or Foreign Country]} ss.

On the day of , in the year 2, before me, the undersigned, personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the [Insert the City or other political subdivision and the state or country or other place the acknowledgement was taken].

Signature:_____

Name:_____

Office:_____

(5) A letter of credit, as identified in paragraph (d)(3) of this section, must be worded exactly as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

IRREVOCABLE LETTER OF CREDIT

[Name and address of banking establishment] [Date]

[See instruction at 6 NYCRR 360.22(e)(1) and (2) of this Part for addressing]

Regional Director
Region [Number of the appropriate Department of Environmental Conservation Regional Office in which the facility is located, (i.e., 1 – 9)]
New York State Department of Environmental Conservation
[Address of the appropriate Regional Office]

OR

Commissioner
New York State Department of Environmental Conservation
Attn: Division of Materials Management [or successor administrative unit]
625 Broadway
Albany, New York 12233-7260
Re: Letter of Credit No. _____

Dear [insert "Commissioner" or "Regional Director"]:

We hereby establish and open our Irrevocable Letter of Credit No. _____ in your favor, at the request and for the account of [owner's or operator's name and address] up to the aggregate amount of [insert amount of dollars in words] U.S. dollars ($), available upon presentation of:

(1) your sight draft, bearing reference to this Letter of Credit No. _____, and

(2) your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of the New York State Environmental Conservation Law."

This letter of credit covers [insert "closure", "post-closure care", "custodial care", and/or "corrective measures", whichever apply] at the following [facility or facilities]: [identify each of the owner=s or operator's facilities by name, address and Department of Environmental Conservation identification number, and the amounts for each].

This letter of credit is effective as of [date] and shall expire on [date at least 1 year later], but such expiration date shall be automatically extended for a period of [at least one year] on [date] and on each successive expiration date thereafter, unless, at least 120 days before the current expiration date, we notify both you and [owner's or operator's name] by certified mail, return receipt requested, that we have decided not to extend this letter of credit beyond the current expiration date. In the event

you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft and the above-referred-to signed statement for 120 days after the date of receipt by both you and (owner's or operator's name), as shown on the signed return receipts.

The [insert name of bank issuing letter of credit] agrees that whenever this letter of credit is drawn on, under and in compliance with the terms of this letter of credit, that [insert name of bank issuing letter of credit] shall duly honor such draft upon presentation to [insert name of bank issuing letter of credit] and the [insert name of bank issuing letter of credit] shall deposit the amount of the draft into the standby trust fund of [owner's or operator's name] or the amount will be otherwise disbursed in compliance with the ["Commissioner's" or "Regional Director's"] instructions.

We certify that the wording of this letter of credit is identical to the wording identified in 6 NYCRR 360.22(e)(5), as such regulations were constituted on the date shown immediately below.

Very truly yours,

[Insert name of bank issuing credit]

By: _____
[insert name and Title of authorized employee or officer of bank issuing letter of credit.]

Date: _____

This credit is subject to [insert "the most recent edition of the Uniform Customs and Practice for Documentary Credits, published and copyrighted by the International Chamber of Commerce," as described in 6 NYCRR Part 373-2.8(j)(3), or "the Uniform Commercial Code of the State of New York"].

APPENDIX K

MANUFACTURER'S LITERATURE

Model 192
MicroR Ratemeter

Radiation Detection for a Safer World

Features

- High Sensitivity to Gamma
- Range: 0 to 50 µSv/h (0 to 5000 µR/hr)
- Rugged
- 4-Range Analog Meter
- Setpoint and Deviation Alarms
- Adjustable Audio & Visual Alarms

Part Number: 48-2945

Introduction

The Model 192 is a high-sensitivity gamma µR/meter employing an internally housed 5.1 cm diameter by 2.5 cm thick (2 x 1 in.) NaI(Tl) detector.

This instrument supports two types of alarms: a user adjustable xed point alarm and a deviation alarm that activates at levels above a oating background. An alarm light mounted to the front panel is accompanied by an audio signal when alarm setpoints are passed.

The front-panel controls include a rotary switch for selecting one of four ranges, instrument shut-off and battery test, an audio on/off switch, a fast/slow response switch, and a reset button. The aluminum cast instrument housing with its separate battery compartment and accompanying metal handle offer an industrial robustness and quality that promote long-lasting protection and instrument life. The Model 192 is a complete turn-key system and includes two “D” cell batteries.

Specifications

APPLICATION: low-level (microR) gamma survey
RANGE: 0 to 50 µSv/h (0 to 5000 µR/hr)
DETECTOR: 5.1 cm diameter x 2.5 cm thick (2.0 x 1.0 in.) NaI(Tl) scintillator
SENSITIVITY: typically 65,000 cpm/µSv/h (650 cpm/µR/hr) (^{137}Cs gamma)
ENERGY RESPONSE: energy dependent
LINEARITY: reading within 10% of true value
METER: 6.4 cm (2.5 in.) arc, 1 mA analog type, pivot and jewel suspension
METER DIAL: 0 to 5 µR/hr, BAT TEST (others available)
ALARMS: This instrument incorporates dual action, latching type alarms:

- A xed alarm point that can be set at any point from 10% of full scale to full scale, and is indicated by a constant audible tone and the lamp turning on.
- A quick deviation alarm that is based on background radiation levels. When the instrument is turned on, it takes an eight-second measurement of background radiation levels and determines a deviation alarm setting. If the radiation level exceeds this setting, the alarm audio will beep every 1/8 second and the lamp wil ash.

CONTROLS:

- Rotary Selector: switches between instrument off, battery check, ranges: x1, x10, x100, x1000
- Response Switch: toggles between FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% o nal reading
- Reset Pushbutton: to zero meter, and also re-accumulate background data and recalculate the alarm point
- Audio Switch: for audio on/off, built-in unimorph speaker, greater than 60 dB at 0.6 meters (2 ft)
- Calibration Controls: accessible from front of instrument (protective cover provided)

BATTERY LIFE: typically 600 hours with alkaline batteries (battery condition can be checked on meter)
SIZE: 21.6 x 8.9 x 22.4 cm (8.5 x 3.5 x 8.8 in.) (H x W x D), with handle
WEIGHT: 2.3 kg (5 lb) including batteries

Ludlum Measurements, Inc.

P.O. Box 810, Sweetwater, Texas 79556 / http://www.ludlums.com
Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: ludlum@ludlums.com

May 2015

LUDLUM MEASUREMENTS, INC
501 OAK STREET, P.O. BOX 810
SWEETWATER, TEXAS 79556
325-235-5494, FAX: 325-235-4672

CE

EU Declaration of Conformity

Model 192 Survey Meter

Manufacturer's Name:	Ludlum Measurements, Inc.
Manufacturer's Address:	501 Oak Street, Sweetwater, TX 79556
Description of Product:	Radiation Detector
Model Number:	192
Manufacturing Quality System:	ISO 9001:2008 Certification; Registration Certificate No. 50745
	ABS Quality Evaluations (ABS QE), an ABS Group Company, Houston, TX
Category of Equipment:	Electrical Testing and Measurement Equipment
Applicable EC Directive(s):	The object of the declaration described herein is in conformity with the relevant EU legislation: EMC Directive 2014/30/EU LVD Directive 2014/35/EU
Standards:	EN 55011, Group 1, Class A Limits and methods of measurement of radio disturbance characteristics of industrial, scientific, and medical (ISM) radio-frequency equipment, March 1991. EN 50082-1, Electromagnetic compatibility – Generic immunity standard – Part 1: Residential, commercial, and light industry, January 1992.
Statement of Conformity:	The product specified above complies with applicable EU directive referenced, including the application of sound engineering practice. The product is CE marked.

Authorized Signature: Larry Ludlum, President

2-10-2017

Date

Model 375P-336
Waste Monitor

Features

- Excellent Surface Contamination Screening Tool for:
  - Small Articles
  - Baggage
  - Packages
  - Medical Waste
- Affordable Digital Controller
- Dual Large Plastic Scintillator Detectors
- Programmable Alarms
- Networkable
- 24-Hour Battery Backup

Part Number: 48-3285

Introduction

The Model 375P-336 is a Digital Model 375 Controller coupled to two 2753 cm (168 in) plastic scintillation detectors. These components are indoor units that are typically wall-mounted. This simple and cost-effective solution offers a system that is easy to operate and maintain. The controller supplies local alarms, but can also be connected to external alarms or even put onto an Ethernet network if desired. It additionally has a 24-hour battery backup to keep the system operational in the event power is lost.

Medical Application: This instrument is ideal for monitoring personnel or laundry for possible contamination in the nuclear medicine department. The monitor may also be used as a radiation contamination triage device to alert emergency department personnel of potentially contaminated patients or equipment coming into the emergency room. Ludlum Measurements encourages the use of an optional rail, Part Number 2311167, in those environments where equipment, carts, or other traffic might strike and damage the detectors.

Surface Contamination Inspection: Inspecting items using hand held instruments can be too time consuming in many cases. The Model 375P-336 facilitates a more rapid and uniform inspection by placing two relatively large sized scintillation detectors in close proximity to the incoming or outgoing articles undergoing inspection. Both detectors are continuously monitored by the digital controller so any offending item can immediately trigger an alarm. Alarm conditions can be set up to automatically halt production conveyance devices, notify the central office, and even alert key personnel to initiate an immediate response.

Specifications

DETECTORS: 2 ea. 2753 cm³ (168 in³) plastic scintillation detectors. Each detector is supplied with a 15.2 m (50 ft) coaxial cable.
DISPLAY: 4-digit LED display with 2 cm (0.8 in.) digits
DISPLAY UNITS: can be made to display in microR/hr, mR/hr, R/hr, microSv/h, mSv/h, Sv/h, cpm, cps, and others
RANGE: 0.1 to 9999 kcps
LINEARITY: reading within 10% of true value
RESPONSE: typically 3 seconds from 10% to 90% of final reading
STATUS: (green light) instrument functioning properly
SIGMA ALARM: indicated by red ALARM light and audible tone (can be set at any point from 0.0 to 999 sigma)
SUM ALARM: indicated by red ALARM light and audible tone (can be set at any point from 0.0 to 9999 kcps). NOTE: audible alarm annunciators can be configured as a single beep if desired
DET FAIL: (red light and audible tone; greater than 68 dB at 61 cm [2 ft]) indicates no counts from detector or instrument failure
LOW BAT: (yellow) indicates less than 2 hours of battery power remaining
OVERRANGE: indicates measured radiation field has exceeded counting range of instrument (indicated by display reading "——")
RELAY OUTPUT: mains (120 or 240 Vac) output on alarm, 9-pin connector providing RS-232 output, signal ground connection, FAIL and ALARM signals (current sink), and direct connection to battery and ground
CALIBRATION CONTROLS: accessible from front of instrument (protective cover provided)
POWER: 95–135 Vac (178–240 Vac available), 50–60 Hz, 6 volt sealed lead-acid rechargeable battery (built-in)
BATTERY LIFE: typically 24 hours in non-alarm condition
BATTERY CHARGER: battery is continuously trickle-charged when instrument is connected to line power and turned on
CONSTRUCTION: aluminum housing with ivory powder-coat
TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F)
SIZE: electronics: 26.2 x 24.6 x 8.4 cm (10.3 x 9.7 x 3.3 in.) (H x W x L)
detectors (ea.): 104.1 x 17.1 x 5.3 cm (41 x 6.8 x 2.1 in.) (H x W x L)
WEIGHT: electronics: 4.2 kg (9.3 lb); detectors (ea.): 10.7 kg (23.5 lb)
OPTIONS: Date/Time Printer with Cable (Part Number 4558-185) *shown*
External Enunciator Option for the Model 375 (Part Number 4396-171)
Model 271-2 Remote Display Area Monitor with dual alarm channels, audio On/Off, reset button (PN 48-3536)
Horn/Red Alarm Strobe: Model ALM-220, with 14.2 m (50 ft) cable and 220 V relay (Part Number 4396-173) *shown*
Environmental Enclosure for Model 375 electronics: NEMA 4 Weatherproof Enclosure (Part Number 4396-068)

Ludlum Measurements, Inc.

P.O. Box 810, Sweetwater, Texas 79556 / http://www.ludlums.com
Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: ludlum@ludlums.com

Aug2016

LUDLUM MEASUREMENTS, INC
501 OAK STREET, P.O. BOX 810
SWEETWATER, TEXAS 79556
325-235-5494, FAX: 325-235-4672

CE

EU Declaration of Conformity

Model 375P-336 Radiation Detector System

Manufacturer's Name:	Ludlum Measurements, Inc.
Manufacturer's Address:	501 Oak Street, Sweetwater, TX 79556
Description of Product:	Radiation Detector
Model Number:	375P-336
Manufacturing Quality System:	ISO 9001:2008 Certification; Registration Certificate No. 50745
	ABS Quality Evaluations (ABS QE), an ABS Group Company, Houston, TX
Category of Equipment:	Electrical Testing and Measurement Equipment
Applicable EC Directive(s):	The object of the declaration described herein is in conformity with the relevant EU legislation: EMC Directive 2014/30/EU LVD Directive 2014/35/EU
Standards:	EN 61326 1997, A1: 1998, A2: 2001.
	EN 61000-3-2: 2000, A2: 2005.
	EN 61000-3-3: 1995, A1: 2001.
	EN 61010-1, Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements, with Amends 1 and 2, last amended July 1995.
Statement of Conformity:	The product specified above complies with applicable EU directive referenced, including the application of sound engineering practice. The product is CE marked.

Authorized Signature: Larry Ludlum, President

3-27-17

Date

ADAM EQUIPMENT

165 lb. Digital LCD Floor Scale

Item # **19YN37** Mfr. Model # **AFK 165A** Catalog Page # **N/A** UNSPSC # **41111509**

How can we **improve our Product Images**?

Compare

Web Price
$782.00 / each

One Time Delivery
Auto Reorder

1 ADD TO CART

+ Add to List

Shipping Pickup

Expected to arrive
Wed. Apr 25.

Ship To **18949** (Change)

Be the first to write a review

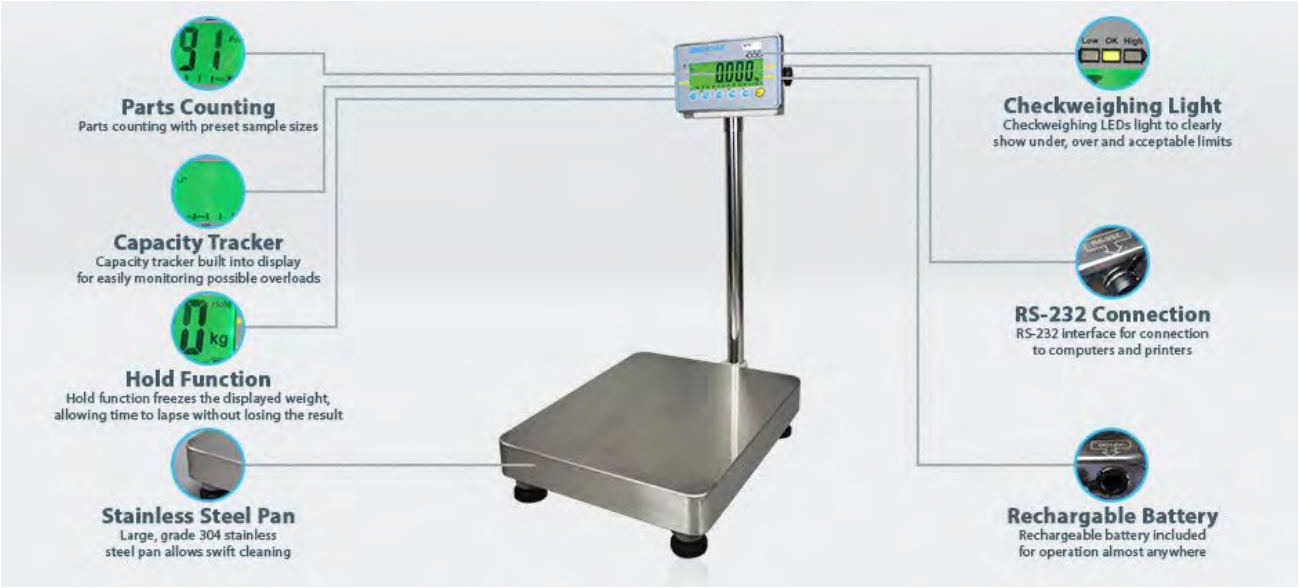
Shipping Weight **30.9 lbs.**

Country of Origin **China** | *Country of Origin is subject to change.*

Note: Product availability is real-time updated and adjusted continuously. The product will be reserved for you when you complete your order. More

PRODUCT DETAILS

Supplemental product information has been provided to improve the usage and application of this item.



Hide Information

TECHNICAL SPECS

Scale Sub-Category	**General Purpose Scale**
Scale Item	**Floor Scale**
Digital/Mechanical	**Digital**
Capacity	**165 lb.**
Scale Graduations	**0.01 lb.**
Scale Display	**LCD**
Weighing Surface Depth	**15-45/64"**
Weighing Surface Width	**11-13/16"**
Overall Length	**24-13/32"**
Overall Width	**15-45/64"**

Overall Height	**31-1/64"**
Application Modes	**Weighing, Check Weighing, Parts Counting, Percentage Weighing, Dynamic/Animal Weighing**
Power Unit	**AC Adapter, Rechargeable Battery**
Scale Connection Ports	**RS-232**
Platform Material	**Stainless Steel**
Housing Material	**Stainless Steel**
Standards	**UL, CE, FCC, IP66**
Includes	**AC Adapter/Charger**
Weighing Units	**lb.**
Washdown	**No**

How can we **improve our Technical Specifications**?

COMPLIANCE AND RESTRICTIONS

Hazardous material - General

This item has been restricted from sale in the following states: PR.

This product contains a chemical that is regulated under California Proposition 65.

Warning: This product contains a chemical known to the State of California to cause cancer.

Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

ALTERNATE PRODUCTS

Alternate Products may not be identical in style or function to original selection. Please compare below for more information.

Compare

ITEM # **19YN38**

330 lb. Digital LCD Floor Scale

ADAM EQUIPMENT

Web Price

$786.00 / each

RELATED PRODUCTS

ADAM EQUIPMENT

ITEM # **19YP07**

Interface USB Cable,Gray,Vinyl

ADAM EQUIPMENT

Web Price

$67.25 / each

ADAM EQUIPMENT

ITEM # **19YP09**

Adam Data Collection Software,Silver,CD

ADAM EQUIPMENT

Web Price

$183.00 / each

ADAM EQUIPMENT

ITEM # **19YN78**

Thermal Printer,Beige,Plastic

ADAM EQUIPMENT

Web Price

$643.00 / each

ADAM EQUIPMENT

ITEM # **19YN79**

Printer Paper,White,Paper,PK10

ADAM EQUIPMENT

Web Price

$173.00 / pkg. of 10

ADAM EQUIPMENT

ITEM # **19YP06**

RS232 Cable,Gray,Vinyl,5 ft.

ADAM EQUIPMENT

Web Price

$65.25 / each

CUSTOMERS ALSO PURCHASED

MEASURETEK
200kg/440 lb. Digital LCD Platform Bench Scale with
ITEM # **12R979**
Web Price **$93.00** / each
Qty
1 ADD TO CART

MEASURETEK
2200kg/5000 lb. Digital LCD Floor Scale with
ITEM # **12R960**
Web Price **$894.00** / each
Qty
1 ADD TO CART

MEASURETEK
1000kg/2500 lb. Digital LCD Floor Scale with
ITEM # **12R959**
Web Price **$894.00** / each
Qty
1 ADD TO CART

PINNACLE
2300kg/5000 lb. Digital LED Floor Scale with
ITEM # **19ND56**
Web Price **$1,115.00** / each
Qty
1 ADD TO CART

PINNACLE
5000 lb. Digital Floor Platform
ITEM # **401Z80**
Web Price **$785.00** / each
Qty
1 ADD TO CART

CUSTOMER REVIEWS

REVIEWS **WRITE REVIEWS**

☆☆☆☆☆

This Product has no Reviews. Be the first to Write a Review.

Product Reviews Disclaimer:

Grainger is neither responsible for, nor does it endorse, the content of any product review or statement posted. Any statements posted constitute the statements of the poster and are not the statements of Grainger. The statements posted by Grainger employees with the Grainger employee badge represent the views of such employees and are not the statements of Grainger. Grainger makes no representations as to the appropriateness, accuracy, completeness, correctness, currentness, suitability, or validity of any product review or statements posted, including those posted by employees with the Grainger employee badge, and is not liable for any losses, injuries or damages which may result from any such product review or statements. Use of any linked web site provided in a product review or post is at the user's own risk.

4 - WHEEL ELECTRIC

7FBCU

CUSHION TIRE

3,000 to 6,500 lbs. • ***1,360 to 2,948 kg***

SPECIFICATIONS

TOYOTA

INDUSTRIAL EQUIPMENT

3,000 to 6,500 lbs. *1,360 to 2,948 kg* • Standard Equipment

SAFETY

- System of Active Stability (SAS)
  - Active control rear stabilizer
  - Active mast function controller
  - SAS Operation Monitor
  - SAS warning light and alarm
- Key lowering interlock
- Double-action parking brake
- Drift control system
- Asbestos free components
- Electric horn
- Manual return to neutral safety switch
- Back-up alarm

PERFORMANCE

- 48 Volt electrical system
- AC drive system (MOSFET Transistor)
- Three forms of energy regeneration
  - Coast control
  - Plug braking
  - Foot braking
- Built-in analyzer
- Self-diagnostics
- Digital multifunction display
  - Time & Date
  - Speedometer
  - Multifunction hour meters
  - Battery capacity indicator
  - Parking brake indicator
  - Over discharge warning (lift interrupt)
  - Swing lock cylinder indicator
- Power select functions (S.P.H.)
- UL-approved model type E
- 3-way hydraulic control valve
- Power keep function
- Auto shut-off (after 15 minutes)
- EHPS (On demand,Electronic Hydraulic Power Steering)

BODY/EXTERIOR DESIGN

- Wide view 2-stage mast (V)
- Wide view carriage bars
- Bolt-on overhead guard
- Punched plate entry/exit steps
- 48" load backrest extension
- Easy-access hydraulic motor
- 85-degree wide-opening battery hood
- Chassis: Field retrofitable for battery slide-out
- Drawbar pin
- Tie-down hooks
- Smooth cushion tires
- 26.8" battery compartment (3-3.5k)
- 30.5" battery compartment (4-5k)
- 34.3" battery compartment (6-6.5k)
- 86.4" OHG height (3-3.5k)
- 88.0" OHG height (4-6.5k)

OPERABILITY AND ERGONOMICS

- Strategically configured instrument display
- Hydrostatic power steering
- Cowl-mounted hydraulic controls
- Automatic fork leveling control
- Single operator assist grip
- Electric directional shift control
- Memory-tilt steering column
- Driver's 4-way adjustable ultra-comfort cloth semi-suspension seat with adjustable lumbar support
- Transistorized load handling controller
- Heavy-duty non-slip floor mat
- Two-spoke steering wheel
- Dash integrated pen/pencil holder
- Hood integrated clip board
- Dash-mounted cup holder
- Adjustable front headlights and guards
- Front combination lights - includes clearance lights and turn signal
- High mount rear combination lights - includes brake, clearance back-up lights and turn signal
- Easy access no-tools floorboard

SERVICEABILITY

- AC drive motor (no brushes or commutator)
- Battery compartment hood assist dampers
- Motor brush wear/overheat protection (Hydraulic motor only)

OPTIONAL EQUIPMENT

- UL-approved model type EE
- UL-approved model type ES
- Cold storage model
- 36 Volt electrical system
- Keyless key switch
- Battery slide-out
- 4-way hydraulic control valve
- Sideshifter
- Inching EPROM (4-5k)
- Seat brake
- EZ Pedal (foot directional control)
- Smooth cushion tires
- Non-marking tires
- Wide tread (except 3.5k)
- Battery compartment side panels
- Swivel seat
- Vinyl 4-way adjustable semi-suspension seat
- Drive-in rack overhead guard
- Operator compartment light
- 83.5" (3000 – 3500) & 84.9" (4000 – 6500) overhead guard heights
- Rear view mirrors (left & right)
- Strobe light (yellow, red, blue & clear)
- Rear working light
- Tilt cylinder boots
- Adjustable volume back-up alarm (Smart alarm)
- Anti-static ground strap
- Wide-view full free lift 2-stage mast (FV)
- Wide-view full free lift 3-stage mast (FSV)
- Wide-view full free lift 4-stage mast (QFV) (4-6.5k)
- Tapered forks
- Fully tapered & polished forks (FTP)
- Various carriage widths
- Various load backrest extension heights
- Bottler's tilt
- Side hosing termination
- Pencil/tape holder
- Fire extinguisher
- 34" battery compartment (option on 5k, std on 6-6.5k)
- Quick disconnects (single & dual)
- 12V power supply

Note: Please check with your local Toyota sales professional for additional options.

Models				7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
Load Capacity (with 24-in. load center ***600 mm***)			lb. ***kg***	3000 ***1360***	3000 ***1360***	3500 ***1587***	3500 ***1587***	4000 ***1814***	4000 ***18***
Brakes				Service (Foot) brake - Hydraulic Parking brake - Hand					

EXTERIOR DIMENSIONS

					7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
A	Maximum Fork Height (MFH)			in. ***mm***	131 ***3335***	131 ***3335***	131 ***3335***	131 ***3335***	131.5 ***3340***	131.5 ***33***
B	Mast Lowered Height			in. ***mm***	83.1 ***2110***	83.1 ***2110***	83.1 ***2110***	83.1 ***2110***	83.3 ***2115***	83.3 ***21***
C	Mast Extended Height			in. ***mm***	179.3 ***4555***	179.3 ***4555***	179.3 ***4555***	179.3 ***4555***	179.5 ***4560***	179.5 ***45***
D	Free Lift			in. ***mm***	5.7 ***145***	5.7 ***145***	5.7 ***145***	5.7 ***145***	6.1 ***155***	6.1 ***15***
E	Load Distance*			in. ***mm***	15.7 ***400***	15.7 ***400***	15.7 ***400***	15.7 ***400***	16.5 ***425***	16.5 ***42***
F	Wheelbase			in. ***mm***	48 ***1220***	48 ***1220***	48 ***1220***	48 ***1220***	51 ***1295***	51 ***129***
G	Fork Size (TxWxL)			in. ***mm***	1.4x4x42 ***35x100x1070***	1.4x4x42 ***35x100x1070***	1.4x4x42 ***35x100x1070***	1.4x4x42 ***35x100x1070***	1.6x5x42 ***40x125x1070***	1.6x5x42 ***40x1***
H	Length to Fork Face			in. ***mm***	76.8 ***1950***	76.8 ***1950***	76.8 ***1950***	76.8 ***1950***	81.5 ***2070***	81.5 ***20***
I	Overhead Guard Height			in. ***mm***	86.4 ***2195***	86.4 ***2195***	86.4 ***2195***	86.4 ***2195***	88 ***2235***	88 ***223***
J	Tilt Range (forward/backward)			deg	6/10	6/10	6/10	6/10	6/10	6/10
K	Outside Turning Radius			in. ***mm***	66.3 ***1685***	66.3 ***1685***	66.3 ***1685***	66.3 ***1685***	70.5 ***1790***	70.5 ***17***
L	Basic Right Angle Stacking Aisle Width**			in. ***mm***	82.1 ***2085***	82.1 ***2085***	82.1 ***2085***	82.1 ***2085***	87.2 ***2215***	87.2 ***22***
M	Overall Width			in. ***mm***	37 ***945***	37 ***945***	37 ***945***	37 ***945***	41.9 ***1065***	41.9 ***10***
N	Carriage Width			in. ***mm***	32 ***813***	32 ***813***	32 ***813***	32 ***813***	36.2 ***920***	36.2 ***92***
O	Tread Width	Front		in. ***mm***	31.3 ***795***	31.3 ***795***	31.3 ***795***	31.3 ***795***	35 ***890***	35 ***89***
		Rear		in. ***mm***	32.3 ***820***	32.3 ***820***	32.3 ***820***	32.3 ***820***	36 ***915***	36 ***91***

DIMENSIONS OF BATTERY COMPARTMENT

					7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
Width				in. ***mm***	34.6 ***879***	34.6 ***879***	34.6 ***879***	34.6 ***879***	39.1 ***993***	39.1 ***99***
Length				in. ***mm***	26.8 ***681***	26.8 ***681***	26.8 ***681***	26.8 ***681***	30.5 ***775***	30.5 ***77***
Height	without Slides / with Slides			in. ***mm***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***60***
Power Type					Battery					
Battery	Voltage/Capacity	STD	36V/48V	AH	680/510	680/510	680/510	680/510	1020/765	1020/76
	(6-hour ratings)	High	36V/48V	AH	880/660	880/660	880/660	880/660	1320/990	1320/99
	Min. weight			lb. ***kg***	1840 ***835***	1840 ***835***	1840 ***835***	1840 ***835***	2400 ***1088***	2400 ***10***
	Max. weight			lb. ***kg***	2160 ***980***	2160 ***980***	2160 ***980***	2160 ***980***	3156 ***1431***	2820 ***12***
Electric Motors	Drive		36V/48V	SAE HP ***kW***	8.3/11 ***6.3/8.3***	6.6/8.8 ***5.0/6.6***	8.3/11 ***6.3/8.3***	6.6/8.8 ***5.0/6.6***	12.8/17.5 ***9.7/13.2***	10.4/14 ***7.8***
	Load Handling (Hyd.)		36V/48V	SAE HP ***kW***	9.8/13.8 ***7.4/10.1***	7.3/10.2 ***5.5/7.7***	9.8/13.8 ***7.4/10.4***	7.3/10.2 ***5.5/7.7***	12.2/17 ***9.2/12.8***	11.4/16.3 ***8.***
	Power Steering		36V/48V	SAE HP ***kW***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7***
Control Type	Drive				Transistor Invertor					
	Load Handling (Hyd.)				Electromagnetic Contactor					
	Power Steering				Electromagnetic Contactor					

PERFORMANCE DATA

					7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
Maximum Travel Speed (H-Mode)	fwd/rvs – full load	36V		mph ***kph***	9.0 ***14.5***	9.0 ***14.5***	8.7 ***14***	8.7 ***14***	8.7 ***14***	8.7 ***14***
	fwd/rvs - full load	48V		mph ***kph***	10.9 ***17.5***	10.9 ***17.5***	10.6 ***17***	10.6 ***17***	10.6 ***17***	10.6 ***1***
	fwd/rvs - no load	36V		mph ***kph***	9.3 ***15***	9.3 ***15***	9.3 ***15***	9.3 ***15***	9.3 ***15***	9.3 ***15***
	fwd/rvs - no load	48V		mph ***kph***	11.2 ***18***	11.2 ***18***	11.2 ***18***	11.2 ***18***	10.9 ***17.5***	10.9 ***17***
Lift Speed (V Mast only)	full load	36V/48V		f.p.m. ***mm/sec***	61/85 ***310/430***	47/63 ***240/320***	61/81 ***310/410***	43/61 ***220/310***	63/85 ***320/430***	49/59 ***250***
	no load	36V/48V		f.p.m. ***mm/sec***	110/142 ***560/720***	89/110 ***450/560***	110/142 ***560/720***	89/110 ***450/560***	104/126 ***530/640***	93/100 ***470***
Lowering Speed (V Mast only)	full load			f.p.m. ***mm/sec***	98 ***500***	98 ***500***	98 ***500***	98 ***500***	98 ***500***	98 ***500***
	no load			f.p.m. ***mm/sec***	108 ***550***	108 ***550***	108 ***550***	108 ***550***	98 ***500***	98 ***500***
Maximum Drawbar Pull	full load***			lb. ***kg***	2090 ***950***	2090 ***950***	2080 ***940***	2080 ***940***	3320 ***1510***	3320 ***15***
	no load***			lb. ***kg***	1700 ***770***	1700 ***770***	1670 ***760***	1670 ***760***	2140 ***970***	2140 ***97***
Maximum Gradeability	full load***			%tan	20	20	18	18	25	25
	no load***			%tan	21	21	20	20	23	23

UNDERCLEARANCE

					7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
Center of Wheelbase				in. ***mm***	3.1 ***80***	3.1 ***80***	3.1 ***80***	3.1 ***80***	3.9 ***100***	3.9 ***10***

TRUCK WEIGHTS

					7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
Total weight without battery				lb. ***kg***	4930 ***2240***	4930 ***2240***	5200 ***2365***	5200 ***2365***	6130 ***2780***	6130 ***27***
Weight Distribution w/ Std. Battery	front-full load			lb. ***kg***	8360 ***3910***	8360 ***3910***	9230 ***4325***	9230 ***4325***	10860 ***5090***	10860 ***5***
	rear-full load			lb. ***kg***	1410 ***660***	1410 ***660***	1310 ***620***	1310 ***620***	1670 ***780***	1670 ***78***
	front-no load			lb. ***kg***	2880 ***1305***	2880 ***1305***	2830 ***1285***	2830 ***1285***	3660 ***1660***	3660 ***16***
	rear-no load			lb. ***kg***	3890 ***1765***	3890 ***1765***	4210 ***1910***	4210 ***1910***	4870 ***2210***	4870 ***22***

ATTACHMENT

					7FBCU15	30-7FBCU15 (UL"EE")	7FBCU18	30-7FBCU18 (UL"EE")	7FBCU20	30-7FBCU20 (U
Attachment Operating Hydraulic Pressure				p.s.i. ***kg/cm²***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***16***

TIRES

Type (front/rear)		Cushion / Cushion	
Size (ODxWxID)	Front	18x6x12-1/8	
	Rear	14x4-1/2x8	

* Centerline of front axle to front face of forks.

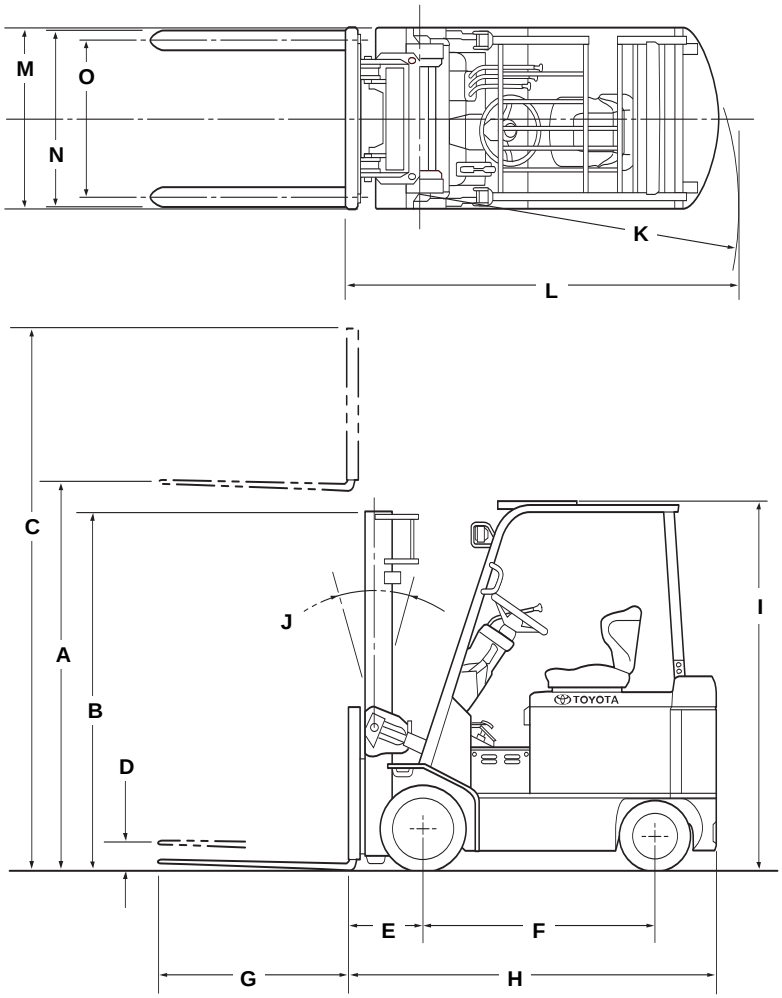
** Add load length and aisle clearance.

*** 3-minute rating computed values.

,948 kg • Specifications

UL“EE”)	7FBCU25	30-7FBCU25 (UL“EE”)	7FBCHU25	30-7FBCHU25 (UL“EE”)	7FBCU30	30-7FBCU30 (UL“EE”)	7FBCU32	30-7FBCU32 (UL“EE”)
14	5000 ***2267***	5000 ***2267***	5000 ***2267***	5000 ***2267***	6000 ***2721***	6000 ***2721***	6500 ***2948***	6500 ***2948***
340	131.5 ***3340***	131.5 ***3340***	131.5 ***3340***	131.5 ***3340***	131.5 ***3340***	131.5 ***3340***	131.5 ***3340***	131.5 ***3340***
15	83.3 ***2115***	83.3 ***2115***	83.3 ***2115***	83.1 ***2110***	83.1 ***2110***	83.1 ***2110***	83.1 ***2110***	83.1 ***2110***
560	179.5 ***4560***	179.5 ***4560***	179.5 ***4560***	179.7 ***4565***	179.7 ***4565***	179.7 ***4565***	179.7 ***4565***	179.7 ***4565***
5	6.1 ***155***	6.1 ***155***	6.1 ***155***	6.1 ***155***	5.3 ***135***	5.3 ***135***	5.3 ***135***	5.3 ***135***
25	16.5 ***425***	16.5 ***425***	16.5 ***425***	17.7 ***450***	17.7 ***450***	17.7 ***450***	17.7 ***450***	17.7 ***450***
5	51 ***1295***	51 ***1295***	54.7 ***1390***	54.7 ***1390***	54.7 ***1390***	54.7 ***1390***	54.7 ***1390***	54.7 ***1390***
25x1070	1.6x5x42 ***40x125x1070***	1.6x5x42 ***40x125x1070***	1.6x5x42 ***40x125x1070***	1.6x5x42 ***40x125x1070***	1.8x5x42 ***45x125x1070***	1.8x5x42 ***45x125x1070***	1.8x5x42 ***45x125x1070***	1.8x5x42 ***45x125x1070***
70	82.7 ***2110***	82.7 ***2110***	85.4 ***2170***	85.4 ***2170***	89.4 ***2270***	89.4 ***2270***	91.3 ***2320***	91.3 ***2320***
5	88 ***2235***	88 ***2235***	88 ***2235***	88 ***2235***	88 ***2235***	88 ***2235***	88 ***2235***	88 ***2235***
	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
90	70.9 ***1800***	70.9 ***1800***	76.4 ***1940***	76.4 ***1940***	77 ***1960***	77 ***1960***	78.7 ***2000***	78.7 ***2000***
15	87.6 ***2225***	87.6 ***2225***	93.1 ***2365***	93.1 ***2365***	94.9 ***2410***	94.9 ***2410***	96.5 ***2450***	96.5 ***2450***
65	41.9 ***1065***	41.9 ***1065***	41.9 ***1065***	41.9 ***1065***	43.7 ***1110***	43.7 ***1110***	43.7 ***1110***	43.7 ***1110***
20	36.2 ***920***	36.2 ***920***	36.2 ***920***	36.2 ***920***	38.2 ***970***	38.2 ***970***	38.2 ***970***	38.2 ***970***
0	35 ***890***	35 ***890***	35 ***890***	35 ***890***	35.8 ***910***	35.8 ***910***	35.8 ***910***	35.8 ***910***
5	36 ***915***	36 ***915***	36 ***915***	36 ***915***	36 ***915***	36 ***915***	36 ***915***	36 ***915***
93	39.1 ***993***	39.1 ***993***	39.1 ***993***	39.1 ***993***	39.1 ***993***	39.1 ***993***	39.1 ***993***	39.1 ***993***
75	30.5 ***775***	30.5 ***775***	34.3 ***871***	34.3 ***871***	34.3 ***871***	34.3 ***871***	34.3 ***871***	34.3 ***871***
5/584	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***	23.8/23 ***605/584***
5	1020/765	1020/765	1190/850	1190/850	1190/850	1190/850	1190/850	1190/850
0	1320/990	1320/990	1540/1100	1540/1100	1540/1100	1540/1100	1540/1100	1540/1100
88	2400 ***1088***	2400 ***1088***	3000 ***1360***	3000 ***1360***	3000 ***1360***	3000 ***1360***	3000 ***1360***	3000 ***1360***
79	3155 ***1431***	2820 ***1279***	3555 ***1612***	3555 ***1612***	3555 ***1612***	3555 ***1612***	3555 ***1612***	3555 ***1612***
3/10.6	12.8/17.5 ***9.7/13.2***	10.4/14 ***7.8/10.6***	12.8/17.5 ***9.7/13.2***	10.4/14 ***7.8/10.6***	12.8/17.5 ***9.7/13.2***	10.4/14 ***7.8/10.6***	12.8/17.5 ***9.7/13.2***	10.4/14 ***7.8/10.6***
6/12.3	12.2/17 ***9.2/12.8***	11.4/16.3 ***8.6/12.3***	12.2/17 ***9.2/12.8***	11.4/16.3 ***8.6/12.3***	12.2/17 ***9.2/12.8***	11.4/16.3 ***8.6/12.3***	12.2/17 ***9.2/12.8***	11.4/16.3 ***8.6/12.3***
/0.9	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***	.9/1.2 ***0.7/0.9***
	8.4 ***13.5***	8.4 ***13.5***	8.4 ***13.5***	8.4 ***13.5***	8.1 ***13***	8.1 ***13***	7.5 ***12***	7.5 ***12***
7	9.9 ***16***	9.9 ***16***	9.9 ***16***	9.9 ***16***	9.3 ***15***	9.3 ***15***	9.3 ***15***	9.3 ***15***
	9.0 ***14.5***	9.0 ***14.5***	9.0 ***14.5***	9.0 ***14.5***	8.7 ***14***	8.7 ***14***	8.1 ***13***	8.1 ***13***
.5	10.9 ***17.5***	10.9 ***17.5***	10.9 ***17.5***	10.9 ***17.5***	10.6 ***17***	10.6 ***17***	10.2 ***16.5***	10.2 ***16.5***
/300	55/75 ***280/380***	45/55 ***230/280***	55/75 ***280/380***	45/55 ***230/280***	47/63 ***240/320***	37/45 ***190/230***	45/63 ***230/320***	33/43 ***170/220***
0/510	104/126 ***530/640***	92/100 ***470/510***	104/126 ***530/640***	92/100 ***470/510***	89/104 ***450/530***	79/85 ***400/430***	89/102 ***450/530***	79/85 ***400/430***
0	98 ***500***	98 ***500***	98 ***500***	98 ***500***	98 ***500***	98 ***500***	98 ***500***	98 ***500***
0	98 ***500***	98 ***500***	98 ***500***	98 ***500***	86 ***450***	86 ***450***	86 ***450***	86 ***450***
10	3290 ***1490***	3290 ***1490***	3290 ***1490***	3290 ***1490***	3160 ***1430***	3160 ***1430***	3160 ***1430***	3160 ***1430***
70	2010 ***910***	2010 ***910***	2550 ***1160***	2550 ***1160***	2350 ***1070***	2350 ***1070***	2270 ***1030***	2270 ***1030***
	21	21	21	21	17	17	17	17
	19	19	24	24	20	20	19	19
0	3.9 ***100***	3.9 ***100***	3.9 ***100***	3.9 ***100***	3.9 ***100***	3.9 ***100***	3.9 ***100***	3.9 ***100***
80	7000 ***3175***	7000 ***3175***	6470 ***2935***	6470 ***2935***	7620 ***3455***	7620 ***3455***	8020 ***3635***	8020 ***3635***
990	12450 ***5855***	12450 ***5855***	13030 ***6120***	13030 ***6120***	14630 ***6890***	14630 ***6890***	15390 ***6981***	15390 ***6981***
30	1950 ***910***	1950 ***910***	1440 ***675***	1440 ***675***	1990 ***925***	1990 ***925***	2130 ***966***	2130 ***966***
60	3460 ***1570***	3460 ***1570***	4310 ***1955***	4310 ***1955***	4060 ***1840***	4060 ***1840***	3940 ***1785***	3940 ***1785***
10	5940 ***2695***	5940 ***2695***	5160 ***2340***	5160 ***2340***	6560 ***2975***	6560 ***2975***	7080 ***3210***	7080 ***3210***
50	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***	2280 ***160***
	21x7x15				21x8x15			
	16x5x10-1/2				16x6x10-1/2			

3,000 to 6,500 lbs. *1,360 to 2,948 kg* • Mast Specifications



7FBCU15, 30-7FBCU15

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80 *2035*	57.5 *1460*	101.2 *2570*	128.1 *3255*	5.7 *145*	5.7 *145*	6	5	3000 *1360*	3000 *1360*
	99.5 *2535*	67.3 *1710*	120.9 *3070*	147.8 *3755*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	107.5 *2735*	71.3 *1810*	128.7 *3270*	155.7 *3955*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	119 *3035*	77.2 *1960*	140.6 *3570*	167.5 *4255*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	131 *3335*	83.1 *2110*	152.4 *3870*	179.3 *4555*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	139 *3535*	87 *2210*	164.2 *4170*	187.2 *4755*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	147 *3735*	93.3 *2370*	168.1 *4270*	195.1 *4955*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	158.5 *4035*	100.8 *2560*	179.9 *4570*	206.9 *5255*	5.7 *145*	5.7 *145*	6	10	3000 *1360*	3000 *1360*
	178.5 *4535*	110.6 *2810*	199.6 *5070*	226.6 *5755*	5.7 *145*	5.7 *145*	6	5	2900 *1315*	2900 *1315*
	198 *5035*	120.5 *3060*	219.3 *5570*	246.3 *6255*	5.7 *145*	5.7 *145*	6	5	2800 *1270*	2900 *1315*
Full-Free Lift 2-Stage (FV)	80 *2035*	57.5 *1460*	99.4 *2525*	128.1 *3255*	36.8 *935*	9.5 *240*	6	5	3000 *1360*	3000 *1360*
	99.5 *2535*	67.3 *1710*	119.1 *3025*	147.8 *3755*	46.7 *1185*	19.3 *490*	6	10	3000 *1360*	3000 *1360*
	107.5 *2735*	71.3 *1810*	127 *3225*	155.7 *3955*	50.6 *1285*	23.3 *590*	6	10	3000 *1360*	3000 *1360*
	119 *3035*	77.2 *1960*	138.8 *3525*	167.5 *4255*	56.5 *1435*	29.2 *740*	6	10	3000 *1360*	3000 *1360*
	131 *3335*	83.1 *2110*	150.6 *3825*	179.3 *4555*	62.4 *1585*	35.1 *890*	6	10	3000 *1360*	3000 *1360*
	139 *3535*	87 *2210*	158.5 *4025*	187.2 *4755*	66.4 *1685*	39 *990*	6	10	3000 *1360*	3000 *1360*
	147 *3735*	93.3 *2370*	166.3 *4225*	195.1 *4955*	72.6 *1845*	45.3 *1150*	6	10	3000 *1360*	3000 *1360*
	158.5 *4035*	100.8 *2560*	178.1 *4525*	206.9 *5255*	80.1 *2035*	52.8 *1340*	6	10	3000 *1360*	3000 *1360*
Full-Free Lift 3-Stage (FSV)	147 *3735*	69.3 *1760*	167.9 *4265*	195.1 *4955*	47 *1195*	21.3 *540*	6	5	3000 *1360*	3000 *1360*
	158.5 *4035*	73.2 *1860*	179.7 *4565*	206.9 *5255*	51 *1295*	25.2 *640*	6	5	3000 *1360*	3000 *1360*
	170.5 *4335*	77.2 *1960*	191.5 *4865*	218.7 *5555*	54.9 *1395*	29.2 *740*	6	5	2900 *1315*	2900 *1315*
	189 *4800*	83.1 *2110*	209.4 *5320*	237 *6020*	60.8 *1545*	35.1 *890*	6	5	2800 *1270*	2800 *1270*
	198 *5035*	87 *2210*	219.1 *5565*	246.3 *6255*	64.8 *1645*	39 *990*	6	5	2750 *1247*	2750 *1247*
	217.5 *5535*	93.3 *2370*	238.8 *6065*	265.9 *6755*	71.1 *1805*	45.3 *1150*	6	5	2200 *990*(1)	2650 *1202*(2)
	237.5 *6035*	100.8 *2560*	258.5 *6565*	285.6 *7255*	78.5 *1995*	52.8 *1340*	6	5	1540 *670*(1)	2200 *997*(2)

NOTE: Height of standard load backrest is 48" /*1220 mm.*

(1) Available as a TSDR only and subject to review.

(2) Requires wide tread.

3,000 to 6,500 lbs. *1,360 to 2,948 kg* • Mast Specifications

7FBCU18, 30-7FBCU18

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80 *2035*	57.5 *1460*	101.2 *2570*	128.1 *3255*	5.7 *145*	5.7 *145*	6	5	3500 *1587*	N/A
	99.5 *2535*	67.3 *1710*	120.9 *3070*	147.8 *3755*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	107.5 *2735*	71.3 *1810*	128.7 *3270*	155.7 *3955*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	119 *3035*	77.2 *1960*	140.6 *3570*	167.5 *4255*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	131 *3335*	83.1 *2110*	152.4 *3870*	179.3 *4555*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	139 *3535*	87 *2210*	164.2 *4170*	187.2 *4755*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	147 *3735*	93.3 *2370*	168.1 *4270*	195.1 *4955*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	158.5 *4035*	100.8 *2560*	179.9 *4570*	206.9 *5255*	5.7 *145*	5.7 *145*	6	10	3500 *1587*	N/A
	178.5 *4535*	110.6 *2810*	199.6 *5070*	226.6 *5755*	5.7 *145*	5.7 *145*	6	5	3300 *1497*	N/A
	198 *5035*	120.5 *3060*	219.3 *5570*	246.3 *6255*	5.7 *145*	5.7 *145*	6	5	3200 *1451*	N/A
Full-Free Lift 2-Stage (FV)	80 *2035*	57.5 *1460*	99.4 *2525*	128.1 *3255*	36.8 *935*	9.5 *240*	6	5	3500 *1587*	N/A
	99.5 *2535*	67.3 *1710*	119.1 *3025*	147.8 *3755*	46.7 *1185*	19.3 *490*	6	10	3500 *1587*	N/A
	107.5 *2735*	71.3 *1810*	127 *3225*	155.7 *3955*	50.6 *1285*	23.3 *590*	6	10	3500 *1587*	N/A
	119 *3035*	77.2 *1960*	138.8 *3525*	167.5 *4255*	56.5 *1435*	29.2 *740*	6	10	3500 *1587*	N/A
	131 *3335*	83.1 *2110*	150.6 *3825*	179.3 *4555*	62.4 *1585*	35.1 *890*	6	10	3500 *1587*	N/A
	139 *3535*	87 *2210*	158.5 *4025*	187.2 *4755*	66.4 *1685*	39 *990*	6	10	3500 *1587*	N/A
	147 *3735*	93.3 *2370*	166.3 *4225*	195.1 *4955*	72.6 *1845*	45.3 *1150*	6	10	3500 *1587*	N/A
	158.5 *4035*	100.8 *2560*	178.1 *4525*	206.9 *5255*	80.1 *2035*	52.8 *1340*	6	10	3500 *1587*	N/A
Full-Free Lift 3-Stage (FSV)	147 *3735*	69.3 *1760*	167.9 *4265*	195.1 *4955*	47 *1195*	21.3 *540*	6	5	3500 *1587*	N/A
	158.5 *4035*	73.2 *1860*	179.7 *4565*	206.9 *5255*	51 *1295*	25.2 *640*	6	5	3500 *1587*	N/A
	170.5 *4335*	77.2 *1960*	191.5 *4865*	218.7 *5555*	54.9 *1395*	29.2 *740*	6	5	3400 *1542*	N/A
	189 *4800*	83.1 *2110*	209.4 *5320*	237 *6020*	60.8 *1545*	35.1 *890*	6	5	3090 *1401*	N/A
	198 *5035*	87 *2210*	219.1 *5565*	246.3 *6255*	64.8 *1645*	39 *990*	6	5	3050 *1383*	N/A
	217.5 *5535*	93.3 *2370*	238.8 *6065*	265.9 *6755*	71.1 *1805*	45.3 *1150*	6	5	2800 *1270*	N/A
	237.5 *6035*	100.8 *2560*	258.5 *6565*	285.6 *7255*	78.5 *1995*	52.8 *1340*	6	5	1700 *771*	N/A

NOTE: Height of standard load backrest is 48" /*1220 mm.*

7FBCU20, 30-7FBCU20

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80 *2040*	57.7 *1465*	104.3 *2650*	128.3 *3260*	6.1 *155*	6.1 *155*	6	5	4000 *1814*	4000 *1814*
	100 *2540*	67.5 *1715*	124 *3150*	148 *3760*	6.1 *155*	6.1 *155*	6	5	4000 *1814*	4000 *1814*
	107.5 *2735*	71.5 *1815*	131.9 *3550*	155.9 *3960*	6.1 *155*	6.1 *155*	6	10	4000 *1814*	4000 *1814*
	119.5 *3040*	77.4 *1965*	143.7 *3650*	167.7 *4260*	6.1 *155*	6.1 *155*	6	10	4000 *1814*	4000 *1814*
	131.5 *3340*	83.3 *2115*	155.5 *3950*	179.5 *4560*	6.1 *155*	6.1 *155*	6	10	4000 *1814*	4000 *1814*
	139 *3540*	87.2 *2215*	163.4 *4150*	187.4 *4760*	6.1 *155*	6.1 *155*	6	10	4000 *1814*	4000 *1814*
	147 *3740*	93.5 *2375*	171.3 *4350*	195.3 *4960*	6.1 *155*	6.1 *155*	6	10	4000 *1814*	4000 *1814*
	159 *4040*	101 *2565*	183.1 *4650*	207.1 *5260*	6.1 *155*	6.1 *155*	6	10	4000 *1814*	4000 *1814*
	178.5 *4540*	110.8 *2815*	202.8 *5150*	226.8 *5760*	6.1 *155*	6.1 *155*	6	5	4000 *1814*	4000 *1814*
	198 *5040*	120.7 *3065*	222.4 *5650*	246.5 *6260*	6.1 *155*	6.1 *155*	6	5	3850 *1746*	3850 *1746*
Full-Free Lift 2-Stage (FV)	80 *2040*	57.7 *1465*	99.8 *2535*	128.3 *3260*	36.4 *925*	9.7 *245*	6	5	4000 *1814*	4000 *1814*
	100 *2540*	67.5 *1715*	119.5 *3035*	148 *3760*	46.3 *1175*	19.5 *495*	6	8	4000 *1814*	4000 *1814*
	107.5 *2735*	71.5 *1815*	127.4 *3235*	155.9 *3960*	50.2 *1275*	23.5 *595*	6	10	4000 *1814*	4000 *1814*
	119.5 *3040*	77.4 *1965*	139.2 *3535*	167.7 *4260*	56.1 *1425*	29.4 *745*	6	10	4000 *1814*	4000 *1814*
	131.5 *3340*	83.3 *2115*	151 *3835*	179.5 *4560*	62 *1575*	35.3 *895*	6	10	4000 *1814*	4000 *1814*
	139 *3540*	87.2 *2215*	158.9 *4035*	187.4 *4760*	65.9 *1675*	39.2 *995*	6	10	4000 *1814*	4000 *1814*
	147 *3740*	93.5 *2375*	166.7 *4235*	195.3 *4960*	72.2 *1835*	45.5 *1155*	6	10	4000 *1814*	4000 *1814*
	159 *4040*	101 *2565*	178.5 *4535*	207.1 *5260*	79.7 *2025*	53 *1345*	6	10	4000 *1814*	4000 *1814*
Full-Free Lift 3-Stage (FSV)	147 *3740*	69.5 *1765*	170.9 *4340*	195.3 *4960*	44.1 *1120*	21.5 *545*	6	5	4000 *1814*	4000 *1814*
	159 *4040*	73.4 *1865*	182.7 *4640*	207.1 *5260*	48 *1220*	25.4 *645*	6	5	4000 *1814*	4000 *1814*
	170.5 *4340*	77.4 *1965*	194.5 *4940*	218.9 *5560*	52 *1320*	29.4 *745*	6	5	3850 *1746*	3850 *1746*
	189 *4800*	83.3 *2115*	212.8 *5405*	237 *6020*	57.9 *1470*	35.3 *895*	6	5	3750 *1700*	3750 *1700*
	198 *5040*	87.2 *2215*	222 *5640*	246.4 *6260*	61.8 *1570*	39.2 *995*	6	5	3550 *1610*	3550 *1610*
	218 *5540*	93.5 *2375*	241.7 *6140*	266.1 *6760*	68.1 *1730*	45.5 *1155*	6	5	3500 *1587*(2)	3500 *1587*(3)
	237.5 *6040*	101 *2565*	261.4 *6640*	285.8 *7260*	75.6 *1920*	53 *1345*	6	5	N/A	3300 *1496*(3)
Full-Free Lift 4-Stage (QFV)	240 *6090*	83 *2105*	261 *6625*	288 *7310*	62 *1575*	35 *890*	6	5	2500 *1150*(2)	3000 *1360*
	258 *6550*	89 *2260*	279 *7080*	306 *7765*	66 *1675*	39 *990*	6	5	1750 *800*(2)	2300 *1043*
	276 *7005*	95 *2410*	297 *7540*	324 *8220*	72 *1830*	45 *1140*	6	5	950 *450*(1)(2)	1700 *750*

NOTE: Height of standard load backrest is 48" *1220 mm.*
(1) Capacities of 1,500 lbs *680 kg* or less are subject to review by Toyota.
(2) Available as a TSDR only.
(3) Requires wide tread.

3,000 to 6,500 lbs. *1,360 to 2,948 kg* • Mast Specifications

7FBCU25, 30-7FBCU25

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80 *2040*	57.7 *1465*	104.3 *2650*	128.3 *3260*	6.1 *155*	6.1 *155*	6	5	5000 *2267*	5000 *2267*
	100 *2540*	67.5 *1715*	124 *3150*	148 *3760*	6.1 *155*	6.1 *155*	6	5	5000 *2267*	5000 *2267*
	107.5 *2735*	71.5 *1815*	131.9 *3550*	155.9 *3960*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	119.5 *3040*	77.4 *1965*	143.7 *3650*	167.7 *4260*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	131.5 *3340*	83.3 *2115*	155.5 *3950*	179.5 *4560*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	139 *3540*	87.2 *2215*	163.4 *4150*	187.4 *4760*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	147 *3740*	93.5 *2375*	171.3 *4350*	195.3 *4960*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	159 *4040*	101 *2565*	183.1 *4650*	207.1 *5260*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	178.5 *4540*	110.8 *2815*	202.8 *5150*	226.8 *5760*	6.1 *155*	6.1 *155*	6	5	4900 *2222*	4900 *2222*
	198 *5040*	120.7 *3065*	222.4 *5650*	246.5 *6260*	6.1 *155*	6.1 *155*	6	5	4500 *2041*	4500 *2041*
Full-Free Lift 2-Stage (FV)	80 *2040*	57.7 *1465*	99.8 *2535*	128.3 *3260*	36.4 *925*	9.7 *245*	6	5	5000 *2267*	5000 *2267*
	100 *2540*	67.5 *1715*	119.5 *3035*	148 *3760*	46.3 *1175*	19.5 *495*	6	8	5000 *2267*	5000 *2267*
	107.5 *2735*	71.5 *1815*	127.4 *3235*	155.9 *3960*	50.2 *1275*	23.5 *595*	6	10	5000 *2267*	5000 *2267*
	119.5 *3040*	77.4 *1965*	139.2 *3535*	167.7 *4260*	56.1 *1425*	29.4 *745*	6	10	5000 *2267*	5000 *2267*
	131.5 *3340*	83.3 *2115*	151 *3835*	179.5 *4560*	62 *1575*	35.3 *895*	6	10	5000 *2267*	5000 *2267*
	139 *3540*	87.2 *2215*	158.9 *4035*	187.4 *4760*	65.9 *1675*	39.2 *995*	6	10	5000 *2267*	5000 *2267*
	147 *3740*	93.5 *2375*	166.7 *4235*	195.3 *4960*	72.2 *1835*	45.5 *1155*	6	10	5000 *2267*	5000 *2267*
	159 *4040*	101 *2565*	178.5 *4535*	207.1 *5260*	79.7 *2025*	53 *1345*	6	10	5000 *2267*	5000 *2267*
Full-Free Lift 3-Stage (FSV)	147 *3740*	69.5 *1765*	170.9 *4340*	195.3 *4960*	44.1 *1120*	21.5 *545*	6	5	5000 *2267*	5000 *2267*
	159 *4040*	73.4 *1865*	182.7 *4540*	207.1 *5260*	48 *1220*	25.4 *645*	6	5	5000 *2267*	5000 *2267*
	170.5 *4340*	77.4 *1965*	194.5 *4940*	218.9 *5560*	52 *1320*	29.4 *745*	6	5	5000 *2267*	5000 *2267*
	189 *4800*	83.3 *2115*	212.8 *5405*	237 *6020*	57.9 *1470*	35.3 *895*	6	5	4850 *2199*	4850 *2199*
	198 *5040*	87.2 *2215*	222 *5640*	246.4 *6260*	61.8 *1570*	39.2 *995*	6	5	4500 *2041*	4750 *2154*
	218 *5540*	93.5 *2375*	241.7 *6140*	266.1 *6760*	68.1 *1730*	45.5 *1155*	6	5	N/A	4550 *2063*(3)
	237.5 *6040*	101 *2565*	261.4 *6640*	285.8 *7260*	75.6 *1920*	53 *1345*	6	5	N/A	3900 *1769*(3)
Full-Free Lift 4-Stage (QFV)	240 *6090*	83 *2105*	261 *6625*	288 *7310*	62 *1575*	35 *890*	6	5	2900 *1300*(2)	3800 *1723*
	258 *6550*	89 *2260*	279 *7080*	306 *7765*	66 *1675*	39 *990*	6	5	1950 *900*(2)	3000 *1360*
	276 *7005*	95 *2410*	297 *7540*	324 *8220*	72 *1830*	45 *1140*	6	5	1300 *600*(1)(2)	2300 *1043*

NOTE: Height of standard load backrest is 48" ***1220 mm.***
(1) Capacities of 1,500 lbs ***680 kg*** or less are subject to review by Toyota.
(2) Available as a TSDR only.
(3) Requires wide tread.

7FBCHU25, 30-7FBCHU25

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80 *2040*	57.7 *1465*	104.3 *2650*	128.3 *3260*	6.1 *155*	6.1 *155*	6	5	5000 *2267*	5000 *2267*
	100 *2540*	67.5 *1715*	124 *3150*	148 *3760*	6.1 *155*	6.1 *155*	6	5	5000 *2267*	5000 *2267*
	107.5 *2735*	71.5 *1815*	131.9 *3550*	155.9 *3960*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	119.5 *3040*	77.4 *1965*	143.7 *3650*	167.7 *4260*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	131.5 *3340*	83.3 *2115*	155.5 *3950*	179.5 *4560*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	139 *3540*	87.2 *2215*	163.4 *4150*	187.4 *4760*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	147 *3740*	93.5 *2375*	171.3 *4350*	195.3 *4960*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	159 *4040*	101 *2565*	183.1 *4650*	207.1 *5260*	6.1 *155*	6.1 *155*	6	10	5000 *2267*	5000 *2267*
	178.5 *4540*	110.8 *2815*	202.8 *5150*	226.8 *5760*	6.1 *155*	6.1 *155*	6	5	4900 *2222*	4900 *2222*
	198 *5040*	120.7 *3065*	222.4 *5650*	246.5 *6260*	6.1 *155*	6.1 *155*	6	5	4500 *2041*	4500 *2041*
Full-Free Lift 2-Stage (FV)	80 *2040*	57.7 *1465*	99.8 *2535*	128.3 *3260*	36.4 *925*	9.7 *245*	6	5	5000 *2267*	5000 *2267*
	100 *2540*	67.5 *1715*	119.5 *3035*	148 *3760*	46.3 *1175*	19.5 *495*	6	8	5000 *2267*	5000 *2267*
	107.5 *2740*	71.5 *1815*	127.4 *3235*	155.9 *3960*	50.2 *1275*	23.5 *595*	6	10	5000 *2267*	5000 *2267*
	119.5 *3040*	77.4 *1965*	139.2 *3535*	167.7 *4260*	56.1 *1425*	29.4 *745*	6	10	5000 *2267*	5000 *2267*
	131.5 *3340*	83.3 *2115*	151 *3835*	179.5 *4560*	62 *1575*	35.3 *895*	6	10	5000 *2267*	5000 *2267*
	139 *3540*	87.2 *2215*	158.9 *4035*	187.4 *4760*	65.9 *1675*	39.2 *995*	6	10	5000 *2267*	5000 *2267*
	147 *3740*	93.5 *2375*	166.7 *4235*	195.3 *4960*	72.2 *1835*	45.5 *1155*	6	10	5000 *2267*	5000 *2267*
	159 *4040*	101 *2565*	178.5 *4535*	207.1 *5260*	79.7 *2025*	53 *1345*	6	10	5000 *2267*	5000 *2267*
Full-Free Lift 3-Stage (FSV)	147 *3740*	69.5 *1765*	170.9 *4340*	195.3 *4960*	44.1 *1120*	21.5 *545*	6	5	5000 *2267*	5000 *2267*
	159 *4040*	73.4 *1865*	182.7 *4540*	207.1 *5260*	48 *1220*	25.4 *645*	6	5	5000 *2267*	5000 *2267*
	170.5 *4340*	77.4 *1965*	194.5 *4940*	218.9 *5560*	52 *1320*	29.4 *745*	6	5	5000 *2267*	5000 *2267*
	189 *4800*	83.3 *2115*	212.8 *5405*	237 *6020*	57.9 *1470*	35.3 *895*	6	5	4850 *2199*	4850 *2199*
	198 *5040*	87.2 *2215*	222 *5640*	246.4 *6260*	61.8 *1570*	39.2 *995*	6	5	4500 *2041*	4750 *2154*
	218 *5540*	93.5 *2375*	241.7 *6140*	266.1 *6760*	68.1 *1730*	45.5 *1155*	6	5	N/A	4550 *2063*(3)
	237.5 *6040*	101 *2565*	261.4 *6640*	285.8 *7260*	75.6 *1920*	53 *1345*	6	5	N/A	4000 *1814*(3)
Full-Free Lift 4-Stage (QFV)	240 *6090*	83 *2105*	261 *6625*	288 *7310*	62 *1575*	35 *890*	6	5	3000 *1350*(2)	3900 *1769*
	258 *6550*	89 *2260*	279 *7080*	306 *7765*	66 *1675*	39 *990*	6	5	2150 *1000*(2)	3200 *1457*
	276 *7005*	95 *2410*	297 *7540*	324 *8220*	72 *1830*	45 *1140*	6	5	1500 *700*(1)(2)	2500 *1133*

NOTE: Height of standard load backrest is 48" ***1220 mm.***
(1) Capacities of 1,500 lbs ***680 kg*** or less are subject to review by Toyota.
(2) Available as a TSDR only.
(3) Requires wide tread.

7FBCU30, 30-7FBCU30

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80.5 *2045*	57.5 *1460*	106.1 *2695*	128.5 *3265*	5.3 *135*	5.3 *135*	6	5	6000 *2721*	6000 *2721*
	100 *2545*	67.3 *1710*	125.8 *3195*	148.2 *3765*	5.3 *135*	5.3 *135*	6	5	6000 *2721*	6000 *2721*
	108 *2745*	71.3 *1810*	133.7 *3395*	156.1 *3965*	5.3 *135*	5.3 *135*	6	10	6000 *2721*	6000 *2721*
	119.5 *3045*	77.2 *1960*	145.5 *3695*	167.9 *4265*	5.3 *135*	5.3 *135*	6	10	6000 *2721*	6000 *2721*
	131.5 *3345*	83.1 *2110*	157.3 *3995*	179.7 *4565*	5.3 *135*	5.3 *135*	6	10	6000 *2721*	6000 *2721*
	139.5 *3545*	87 *2210*	165.2 *4195*	187.6 *4765*	5.3 *135*	5.3 *135*	6	10	6000 *2721*	6000 *2721*
	147 *3745*	93.3 *2370*	173 *4395*	195.5 *4965*	5.3 *135*	5.3 *135*	6	10	6000 *2721*	6000 *2721*
	159 *4045*	100.8 *2560*	184.8 *4695*	207.3 *5265*	5.3 *135*	5.3 *135*	6	10	6000 *2721*	6000 *2721*
	178.5 *4545*	110.6 *2810*	204.5 *5195*	227 *5765*	5.3 *135*	5.3 *135*	6	5	6000 *2721*	6000 *2721*
	198.5 *5045*	120.5 *3060*	224.2 *5695*	246.7 *6265*	5.3 *135*	5.3 *135*	6	5	5600 *2540*	5600 *2540*
Full-Free Lift 2-Stage (FV)	80.5 *2045*	57.5 *1460*	100.8 *2560*	128.5 *3265*	33.3 *845*	9.5 *240*	6	5	6000 *2721*	6000 *2721*
	100 *2545*	67.3 *1710*	120.5 *3060*	148.2 *3765*	43.1 *1095*	19.3 *490*	6	10	6000 *2721*	6000 *2721*
	108 *2745*	71.3 *1810*	128.3 *3260*	156.1 *3965*	47 *1195*	23.3 *590*	6	10	6000 *2721*	6000 *2721*
	119.5 *3045*	77.2 *1960*	140.2 *3560*	167.9 *4265*	53 *1145*	29.2 *740*	6	10	6000 *2721*	6000 *2721*
	131.5 *3345*	83.1 *2110*	152 *3860*	179.7 *4565*	58.9 *1495*	35.1 *890*	6	10	6000 *2721*	6000 *2721*
	139.5 *3545*	87 *2210*	159.8 *4060*	187.6 *4765*	62.8 *1595*	39 *990*	6	10	6000 *2721*	6000 *2721*
	147 *3745*	93.3 *2370*	167.7 *4260*	195.5 *4965*	69.1 *1755*	45.3 *1150*	6	10	6000 *2721*	6000 *2721*
	159 *4045*	100.8 *2560*	179.5 *4560*	207.3 *5265*	76.6 *1945*	52.8 *1340*	6	10	6000 *2721*	6000 *2721*
Full-Free Lift 3-Stage (FSV)	147 *3745*	73.2 *1860*	167.7 *4260*	195.5 *4965*	49 *1245*	25.2 *640*	6	5	6000 *2721*	6000 *2721*
	159 *4045*	77.2 *1960*	179.5 *4560*	207.3 *5265*	53 *1145*	29.2 *740*	6	5	6000 *2721*	6000 *2721*
	171 *4345*	83.1 *2110*	191.3 *4860*	219.1 *5565*	58.9 *1495*	35.1 *890*	6	5	5850 *2653*	5850 *2653*
	187 *4745*	87 *2210*	207.7 *5275*	235 *5965*	62.8 *1595*	39 *990*	6	5	5800 *2630*	5800 *2630*
	198.5 *5045*	93.3 *2370*	218.9 *5560*	246.7 *6265*	69.1 *1755*	45.3 *1150*	6	5	5500 *2494*	5500 *2494*
	218 *5545*	100.8 *2560*	238.6 *6060*	266.3 *6765*	76.6 *1945*	52.8 *1340*	6	5	5350 *2426*(1)	5350 *2426*(3)
	237.5 *6045*	110.6 *2810*	258.3 *6560*	286 *7265*	86.4 *2195*	62.6 *1590*	6	5	4000 *1814*(1)	5150 *2336*(3)
Full-Free Lift 4-Stage (QFV)[2]	240 *6090*	83 *2105*	261 *6625*	288 *7310*	62 *1575*	35 *890*	6	5	3850 *1750*(1)	4450 *2018*
	258 *6550*	89 *2260*	279 *7080*	306 *7765*	66 *1675*	39 *990*	6	5	2650 *1200*(1)	3250 *1474*
	276 *7005*	95 *2410*	297 *7540*	324 *8220*	72 *1830*	45 *1140*	6	5	1650 *750*(1)	1900 *861*

NOTE: Height of standard load backrest is 48" ***1220 mm.***
(1) Available as a TSDR only.
(2) QFV Mast has 36 in. wide Class II carriage. Requires G00A wide tread.
(3) Requires wide tread.

7FBCU32, 30-7FBCU32

Mast Type	Maximum Fork Height (top of forks)	Overall Height			Free Lift		Tilt Range		Standard Tread	Wide Tread
		Lowered	Extended		Without Load Backrest	With Standard Load Backrest	FWD	BWD	Load Capacity 600 mm/24 in. Load Center	Load Capacity 600 mm/24 in. Load Center
			Without Load Backrest	With Standard Load Backrest						
	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	deg	deg	lb *kg*	lb *kg*
Wide Visible (V)	80.5 *2045*	57.5 *1460*	106.1 *2695*	128.5 *3265*	5.3 *135*	5.3 *135*	6	5	6500 *2948*	6500 *2948*
	100 *2545*	67.3 *1710*	125.8 *3195*	148.2 *3765*	5.3 *135*	5.3 *135*	6	5	6500 *2948*	6500 *2948*
	108 *2745*	71.3 *1810*	133.7 *3395*	156.1 *3965*	5.3 *135*	5.3 *135*	6	10	6500 *2948*	6500 *2948*
	119.5 *3045*	77.2 *1960*	145.5 *3695*	167.9 *4265*	5.3 *135*	5.3 *135*	6	10	6500 *2948*	6500 *2948*
	131.5 *3345*	83.1 *2110*	157.3 *3995*	179.7 *4565*	5.3 *135*	5.3 *135*	6	10	6500 *2948*	6500 *2948*
	139.5 *3545*	87 *2210*	165.2 *4195*	187.6 *4765*	5.3 *135*	5.3 *135*	6	10	6500 *2948*	6500 *2948*
	147 *3745*	93.3 *2370*	173 *4395*	195.5 *4965*	5.3 *135*	5.3 *135*	6	10	6500 *2948*	6500 *2948*
	159 *4045*	100.8 *2560*	184.8 *4695*	207.3 *5265*	5.3 *135*	5.3 *135*	6	10	6500 *2948*	6500 *2948*
	178.5 *4545*	110.6 *2810*	204.5 *5195*	227 *5765*	5.3 *135*	5.3 *135*	6	5	6500 *2948*	6500 *2948*
	198.5 *5045*	120.5 *3060*	224.2 *5695*	246.7 *6265*	5.3 *135*	5.3 *135*	6	5	6300 *2857*	6300 *2857*
Full-Free Lift 2-Stage (FV)	80.5 *2045*	57.5 *1460*	105.9 *2690*	128.5 *3265*	28.1 *715*	9.5 *240*	6	5	6500 *2948*	6500 *2948*
	100 *2545*	67.3 *1710*	125.6 *3190*	148.2 *3765*	38 *965*	19.3 *490*	6	10	6500 *2948*	6500 *2948*
	108 *2745*	71.3 *1810*	133.5 *3390*	156.1 *3965*	41.9 *1065*	23.3 *590*	6	10	6500 *2948*	6500 *2948*
	119.5 *3045*	77.2 *1960*	145.3 *3690*	167.9 *4265*	47.8 *1210*	29.2 *740*	6	10	6500 *2948*	6500 *2948*
	131.5 *3345*	83.1 *2110*	157.1 *3990*	179.7 *4565*	53.7 *1365*	35.1 *890*	6	10	6500 *2948*	6500 *2948*
	139.5 *3545*	87 *2210*	165 *4190*	187.6 *4765*	57.7 *1465*	39 *990*	6	10	6500 *2948*	6500 *2948*
	147 *3745*	93.3 *2370*	172.8 *4390*	195.5 *4965*	64 *1625*	45.3 *1150*	6	10	6500 *2948*	6500 *2948*
	159 *4045*	100.8 *2560*	184.6 *4690*	207.3 *5265*	71.5 *1815*	52.8 *1340*	6	10	6500 *2948*	6500 *2948*
Full-Free Lift 3-Stage (FSV)	147 *3745*	73.2 *1860*	172.8 *4390*	195.5 *4965*	43.9 *1115*	25.2 *640*	6	5	6500 *2948*	6500 *2948*
	159 *4045*	77.2 *1960*	184.6 *4690*	207.3 *5265*	47.8 *1215*	29.2 *740*	6	5	6500 *2948*	6500 *2948*
	171 *4345*	83.1 *2110*	196.5 *4990*	219.1 *5565*	53.7 *1365*	35.1 *890*	6	5	6400 *2903*	6400 *2903*
	187 *4745*	87 *2210*	212.8 *5405*	235 *5965*	57.7 *1465*	39 *990*	6	5	6300 *2857*	6300 *2857*
	198.5 *5045*	93.3 *2370*	224 *5690*	246.7 *6265*	64 *1625*	45.3 *1150*	6	5	6100 *2766*	6100 *2766*
	218 *5545*	100.8 *2560*	243.7 *6190*	266.3 *6765*	71.5 *1815*	52.8 *1340*	6	5	5050 *2290*(2)	5700 *2585*(4)
	237.5 *6045*	110.6 *2810*	263.4 *6690*	286 *7265*	81 *2055*	62.6 *1590*	6	5	3500 *1587*(2)	4850 *2199*(4)
Full-Free Lift 4-Stage (QFV)[3]	240 *6090*	83 *2105*	261 *6625*	288 *7310*	62 *1575*	35 *890*	6	5	3750 *1700*(2)	4200 *1905*
	258 *6550*	89 *2260*	279 *7080*	306 *7765*	66 *1675*	39 *990*	6	5	2500 *1100*(2)	3150 *1428*
	276 *7005*	95 *2410*	297 *7540*	324 *8220*	72 *1830*	45 *1140*	6	5	1400 *600*(1)(2)	1800 *816*

NOTE: Height of standard load backrest is 48" ***1220 mm.***
(1) Capacities of 1,500 lbs ***680 kg*** or less are subject to review by Toyota.
(2) Available as a TSDR only. (3) QFV Mast has 36 in. wide Class II carriage. Requires G00A wide tread. (4) Requires wide tread.

Some product features here-in are optional. Please contact your dealer for specifications.
Details of specifications are based on information available at time of printing and may change without notice.

Solutions INC
A World of Waste Answers.

Call us for your World of Waste Answers today!

502.228.2901 812.288.8644

or 877.228.2901

Our Solutions

28 Gallon

-Leak and puncture resistant

-OSHA and D.O.T. required text

-Bins and lids nest together

-2-sided handles for manual handling

-All 3 sizes, 18 Gallon, 28 Gallon, and 38 Gallon have common base and lid dimensions

-Fire resistant: U.L. 94HB material high density polyethylene

Made of high-density polyethylene, these containers are leak-proof, tamper-proof, spill-proof, and reusable. They meet all D.O.T. guidelines for collecting and transporting medical waste. In a hospital or examining room, they are easy to move, odorless, and

aesthetically pleasing. Ideal for hospitals, doctors offices, clinics, labs, nursing homes, funeral homes, and veterinarian offices! Containers can be hot-stamped per customer's specifications at high quantities.

Model #: A2128

Related Products

Assembled 96 Gallon Medical Waste Container

Model #: A7485R

38 Gallon

Model #: A2138

18 Gallon

Model #: A2118

35 Gallon

Model #: A2135

About Us
Efficiency
Products
SharpsAway™
SafeSendAway™
Contact

Privacy Policy
Terms and Conditions
Returns and Warranty

6213 Gheens Mill Road | Jeffersonville, IN 47130
502.228.2901

POWERED BY

APPENDIX L

CROSS-REFERENCE TABLE

APPENDIX L
Cross-Reference Table

Revised June 19, 2018

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.16	**Permit application requirements and permit provisions**	Statement			
360.16(a)	(a) Submission, signature and verification of applications for facility or waste transporter permits. All applications for permits must be submitted in either an electronic format acceptable to the department or print. They must be signed by the applicant as follows:				E
360.16(a)(1)	(1) corporations: by a duly authorized principal executive officer of at least the level of vice p resident;				E
360.16(a)(2)	(2) partnership or limited partnership: by a general partner;				E
360.16(a)(3)	(3) sole proprietorship: by the proprietor; or				E
360.16(a)(4)	(4) a municipal, State, or other governmental entity: by a duly authorized principal executive officer or elected official.	NA			E
360.16(b)	(b) Level of detail. The information contained in an application must contain sufficient detail to:	Statement			
360.16(b)(1)	(1) allow the documents to be readily understood;	Statement			
360.16(b)(2)	(2) allow the department to ascertain the potential environmental impacts of the proposed facility; and	Statement			
360.16(b)(3)	(3) demonstrate that the siting, design, construction, operation, and closure of the facility will be capable of compliance with the applicable requirements of this Part and Parts 361, 362, 363, and 365, and Subpart 374-2 of this Title.	Statement			
360.16(c)	(c) Contents of a new application for a permit. In addition to the information identified in Part 621 of this Title, an application for a new permit must include at a minimum, the following information:				E, G
360.16(c)(1)	(1) Contact information and written permission, including:				E, G
360.16(c)(1)(i)	(i) the name and address of the owner and of the operator of the proposed facility;				E
360.16(c)(1)(ii)	(ii) the name and address of the owner of the property on which the proposed facility is to be located;				E
360.16(c)(1)(iii)	(iii) written permission from the owner(s) of land on which the proposed facility is to be located; and	1.4	2		E
360.16(c)(1)(iv)	(iv) a Certificate under Seal of the Department of State, if applicable.	N/A			
360.16(c)(2)	(2) Maps and plans. A regional map, a vicinity map, and a site plan, as described in this paragraph.			Figure 1 & Drawing C-01	
360.16(c)(2)(i)	(i) Regional map. A regional map (having a minimum scale of 1:62,500) that delineates the location of the proposed facility, the location of the closest population centers, communities of disproportionate impact, and transportation systems including highways.			Figure 1A	
360.16(c)(2)(ii)	(ii) Vicinity map. A vicinity map (having a minimum scale of 1:24,000) that delineates zoning and land use, communities of disproportionate impact, residences, principal aquifers, primary aquifers, surface waters, wetlands, access roads, and other existing and proposed features on the property and within one-half mile of the perimeter of the property.			Figures 1B & 1C	
360.16(c)(2)(iii)	(iii) Site plan. A site plan having a minimum scale of 1:2,400 with five-foot contour intervals (ten–foot intervals for land application facilities) that shows:			Drawing C-01	
360.16(c)(2)(iii)(a)	(a) the location of the proposed facility and its acreage, and the location of any State or federally regulated wetland or special flood hazard area, including 100-year flood elevations and location of any floodways pursuant to Part 502 of this Title, on the property and within 800 feet of the perimeter of the property;	2	3		
360.16(c)(2)(iii)(b)	(b) the location of all public and private water wells, monitoring well, surface water bodies, roads, residences, public areas and buildings, including the identification of any buildings which are owned by the applicant or operator, on the property and within 800 feet of the perimeter of the property;			Drawing C-01	
360.16(c)(2)(iii)(c)	(c) the location of all proposed structures, appurtenances, screening, fences, gates, roads, parking areas, and areas designated for management of waste;			Drawing C-01	
360.16(c)(2)(iii)(d)	(d) the drainage characteristics of the proposed facility and of the property on which it is proposed to be located, identifying the direction of stormwater, ditches, and drainage swales together with any drainage controls that exist or will be implemented with facility construction;			Drawing C-01	
360.16(c)(2)(iii)(e)	(e) the location of soil borings, if applicable;			Drawing C-01	
360.16(c)(2)(iii)(f)	(f) existing and proposed elevation contours;			Figure 1	
360.16(c)(2)(iii)(g)	(g) the direction of prevailing winds; and			Drawing C-01	
360.16(c)(2)(iii)(h)	(h) except in the case of land application facilities, the property boundaries, certified by an individual licensed to practice land surveying in the State of New York, of the property on which the facility is proposed to be located.	Statement			
360.16(c)(3)	(3) Engineering report.	Statement			

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.16(c)(3)(i)	(i) An engineering report that contains a comprehensive description of the existing site conditions, a full engineering analysis of the facility including engineering calculations and all raw data, a description of the overall process, including flow diagrams, and a functional description of all equipment to be used, including design criteria, engineering calculations and anticipated performance. Engineering drawings and specifications submitted as part of the engineering report must depict process flows, dimensions, elevations, floor plans, and cross-sectional views of the facility, including all structures, areas designated for unloading, sorting, processing, storage, and loading, and other waste management areas and equipment. Engineering drawings must contain information on known site conditions and projected use of the site.	Statement			
360.16(c)(3)(ii)	(ii) A noise assessment to demonstrate compliance with the Leq Energy Equivalent Sound levels proscribed in subdivision 360.19(j), below. If the noise assessment indicates the Leq Energy Equivalent Sound Levels will be exceeded, a noise monitoring and control plan to mitigate or monitor sound levels must be included in the application as part of the facility manual.	10.5	43		
360.16(c)(4)	(4) Facility manual. A facility manual, which must include the following:	Statement			
360.16(c)(4)(i)	(i) Waste control plan. The waste control plan describing:	Statement			
360.16(c)(4)(i)(a)	(a) the facility's service area, both inside and outside New York State, including a list of all planning units or Native American tribes or nations within New York State and counties, provinces or tribes or nations outside of New York State;	1.1	1		
360.16(c)(4)(i)(b)	(b) the waste that will be accepted at the facility including the type, source, quantity, and, as required for a particular waste stream in Parts 361, 362, 363, or 365 of this Title, analytical results. The description of the quantity must specify the expected average and maximum daily and annual amounts, on a weight and volume basis, and must be specified for each individual type of waste and for the total amount of waste accepted;	5.1	14		
360.16(c)(4)(i)(c)	(c) authorized locations where wastes, including residues, are transported when they leave the facility and what arrangements exist or will exist (contracts, etc.) that verify receiving entities will accept the waste;	5.2	16		
360.16(c)(4)(i)(d)	(d) inspection, education, and contractual measures to ensure that the facility receives and treats only authorized waste, including a program to identify, control, segregate, quarantine, record, store, and dispose of unauthorized waste;	5.2	16		
360.16(c)(4)(i)(e)	(e) if friable asbestos-containing waste is accepted at the facility, a detailed waste plan specific to that waste must be included that outlines the procedures for managing the waste;	N/A			
360.16(c)(4)(i)(f)	(f) if recyclables are managed at the facility, a detailed plan must be included that describes the types of recyclables that will be recovered, the procedures that will be used for recovery and storage of the recyclables and the disposition of recyclables when they leave the facility;	N/A			
360.16(c)(4)(i)(g)	(g) the procedures that will be used for managing mercury-added consumer products that are separately delivered to the facility; and (h) in the case of a landfill, a municipal waste combustor, or a transfer facility, a detailed plan must be included that:	N/A			
360.16(c)(4)(i)(g)(1)	(1) describes procedures to ensure that source-separated recyclables, source separated yard trimmings and tree debris, source separated food scraps, and source-separated electronic waste and other product stewardship designated materials are not accepted for disposal, and describes actions to be taken if these materials are received at the facility; and	N/A			
360.16(c)(4)(i)(2)	(2) describes procedures and timeframes for conducting periodic waste characterization surveys.	N/A			
360.16(c)(4)(ii)	(ii) Operations and maintenance plan. The plan must include the following:	5.3	19		
360.16(c)(4)(ii)(a)	(a) a description of the overall operation of the facility, including procedures to be followed during start-up and scheduled and unscheduled shutdown of operations;	9.1	40		
360.16(c)(4)(ii)(b)	(b) the type, purpose, size, capacity, and associated detention times for all waste handling, storage, and processing equipment and structures, including back-up facilities and equipment;	5.3	19		
360.16(c)(4)(ii)(c)	(c) a process flow diagram for waste during normal operation. The flow diagram must indicate the average and maximum quantity of waste handled on a weight and volume basis;	5.4	19		D
360.16(c)(4)(ii)(d)	(d) a description of all machinery, equipment, and structures used in waste management operations of the facility, including the design capacity;	6.1	27		K
360.16(c)(4)(ii)(e)	(e) a description of the drainage system used for the collection and storage of leachate and the method and location used for disposal of the leachate;	10.1	43		

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.16(c)(4)(ii)(f)	(f) the monitoring, maintenance and inspection procedures related to waste management;	5.5, 6.4	19, 29		
360.16(c)(4)(ii)(g)	(g) a description of the actions to be taken in response to significant interruptions to the facility's normal operations;	5.3	19		
360.16(c)(4)(ii)(h)	(h) the schedule of operation including the days and hours when the facility will be open to accept and transfer waste, and the days and hours when operations will occur within the facility;	2, 5.1, 7.1, 9.1	4, 14, 33, 40		
360.16(c)(4)(ii)(i)	(i) a list of all equipment and instruments requiring calibration and a schedule of proposed calibration intervals;	6.2	27		
360.16(c)(4)(ii)(j)	(j) the estimated maximum daily traffic flow to and from the facility, the type and size of vehicles, and the maximum number of vehicles that can be accommodated on site;	4	13	Drawings C-03 & C-04	
360.16(c)(4)(ii)(k)	(k) where treatment of waste will occur at the facility, a detailed description of each treatment method and unit, including the operating parameters that will be attained to achieve the intended treatment and the frequency, location, and method for monitoring the operating parameters;	N/A			
360.16(c)(4)(ii)(l)	(l) a discussion of compliance with the operating requirements that are identified in section 360.19 and Parts 361, 362, 363, and 365, and Subpart 374-2 of this Title;	1.3	2		
360.16(c)(4)(ii)(m)	(m) the location of all facility records related to the permit; and	8.1, 8.6	36, 38		
360.16(c)(4)(ii)(n)	(n) a description of the operation of a residential drop-off area, if applicable, for noncommercial vehicles to unload waste and recyclables.	N/A			
360.16(c)(4)(iii)	(iii) Training plan. A training plan that identifies all of the facility's personnel by title and responsibilities and that describes the training program, both classroom and on-the job, that will be used to educate each individual on the procedures necessary to ensure compliance with the requirements applicable to the facility, including but not limited to the plans and procedures identified in this section and all authorizations, permits, and approvals that will be required for the facility; and that describes the training that will be provided and all procedures and equipment that will be used during emergencies, contingencies and standard operations.	12.1	56		
360.16(c)(4)(iv)	(iv) Emergency Response Plan. An emergency response plan must include the following.	11.1	45		
360.16(c)(4)(iv)(a)	(a) A description of actions that facility personnel would take in response to emergencies including fires, explosions, natural disasters, and spills that occur at the facility. The plan must identify the personnel, equipment, and protocols to be utilized in response to each type of emergency. The plan must also include contact information for designated emergency contacts.	11.2	45		
360.16(c)(4)(iv)(b)	(b) A description of the facility's ability and proposed methods to respond to a natural or manmade disaster that, although it may not have a direct impact on the facility itself, may call for expanded or non-standard services to be provided by the facility (for example, longer operating hours) if department approval is granted for those services.	11.3	47		
360.16(c)(4)(v)	(v) a noise monitoring and control plan, if required pursuant to subparagraph (c)(3)(ii) of this subdivision, must include the following:	10.6	44		
360.16(c)(4)(v)(a)	(a) A description of areas of operation where noise propagation off-site is most probable to occur.	10.6	44		
360.16(c)(4)(v)(b)	(b) Mitigation measures (e.g., real-time monitoring system, noise barriers) or modified operational controls that would be utilized to mitigate facility noise when operations are occurring (e.g., reduced equipment operation, limiting trucks tipping in the specified area, limited hours of operation).	10.6	44		
360.16(c)(4)(v)(c)	(c) Protocol for noise monitoring including monitoring locations, methods and equipment, monitoring frequency and duration, and action levels.	10.6	44		
360.16(c)(4)(v)(d)	(d) Criteria for discontinuing the noise monitoring and control plan.	10.6	44		
360.16(c)(4)(vi)	(vi) Closure plan. A closure plan that specifically identifies how the facility will comply with the requirements for closure in section 360.21 of this Part and any closure requirements in Parts 361, 362, 363, and 365, and Subpart 374-2 of this Title. (5) State and Local Plan Consistency. A demonstration that the facility is consistent with the goals and objectives of:	13.1	61		
360.16(c)(4)(vi)(i)	(i) the New York State solid waste management policy identified under subdivision (1) of ECL section 27-0106, with an emphasis on diversion from thermal treatment and disposal;	N/A			
360.16(c)(4)(vi)(ii)	(ii) (the New York State solid waste management plan; and	N/A			

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.16(c)(4)(vi)(iii)	(iii) the department-approved Local Solid Waste Management Plan (LSWMP) in effect, if one exists, for the municipalities in the facility's service area. (iv) for those municipalities in the service area that do not have a LSWMP in effect, an identification that the municipalities have a department-approved CRA in effect. (6) If a facility requiring a permit includes facilities or collection events which would qualify as an exempt or registered facility or collection event, those operations must be described in the permit application.	N/A			
360.16(d)	(d) New applications submitted by or on behalf of a municipality for a permit under Part 362 or 363 of this Title will not be complete until a LSWMP is in effect for the municipality.	N/A			
360.16(e)	(e) In addition to the criteria outlined in subdivision 621.3(e) of this Title, a permit can be denied or revoked based upon the unsuitability of the owner, operator or applicant, as set forth in this subdivision. In addition to any other available grounds, the department can, consistent with the policies of article 23-A of the Correction Law, and the provisions of section 70-0115 of the ECL, deny, suspend, revoke or modify any permit, renewal or modification after determining in writing that such action is required to protect the public health or safety. Some of the factors the department can consider in arriving at such determination include:	Statement (P.E. Certification cannot verify this item)			
360.16(e)(1)	(1) the owner or operator has been determined in an administrative, civil or criminal proceeding to have violated any provision of the ECL or other environmental law administered by the department, any order or determination of the commissioner, any regulation of the department, or any similar statute, regulation, order or permit condition of the federal, other state, or local government agency, on one or more occasions the violation that was the basis for the action posed a potential for significant adverse impacts to public health or the environment, or represents a pattern of noncompliance;	Statement (P.E. Certification cannot verify this item)			
360.16(e)(2)	(2) the owner or operator provides materially false or inaccurate information or statements in the permit application;	Statement (P.E. Certification cannot verify this item)			
360.16(e)(3)	(3) the owner, operator or applicant has in any matter within the jurisdiction of the department knowingly falsified or concealed a material fact, knowingly submitted a false statement or made use of or made a false statement on or in connection with any document or application submitted to the department;	Statement (P.E. Certification cannot verify this item)			
360.16(e)(4)	(4) the owner, operator or applicant, except for Part 364 transporters of hazardous waste and regulated medical waste, is either:	Statement (P.E. Certification cannot verify this item)			
360.16(e)(4)(i)	(i) an individual who had a substantial interest in or acted as a high managerial agent or director for any corporation, partnership, association or organization which committed an act or failed to act, and such act or failure to act could be the basis for the denial of a permit or registration pursuant to this Part, if such corporation, partnership, association or organization applied for a permit pursuant to this Part;	Statement (P.E. Certification cannot verify this item)			
360.16(e)(4)(ii)	(ii) a corporation, partnership, association, organization, or any principal thereof, or any person holding a substantial interest therein, which committed an act or failed to act, and such act or failure to act could be the basis for the denial of a permit or registration pursuant to this Part, if such corporation, partnership, association or organization applied for a permit pursuant to this Part;	Statement (P.E. Certification cannot verify this item)			
360.16(e)(4)(iii)	(iii) a corporation, partnership, association or organization or any high managerial agent or director thereof, or any person holding a substantial interest therein, acting as high managerial agent or director for or holding a substantial interest in another corporation, partnership, association or organization which committed an act or failed to act, and such act or failure to act could be the basis for the denial of a permit or registration pursuant to this Part had such other corporation, partnership, association or organization applied for a permit under this Part; or	Statement (P.E. Certification cannot verify this item)			
360.16(e)(5)	(5) for a Part 364 transporter of hazardous waste or regulated medical waste (RMW):	N/A			
360.16(e)(5)(i)	(i) the owner, operator, or applicant has been found in a civil proceeding to have committed a negligent or intentionally tortious act, or has been convicted in a criminal proceeding of a criminal act involving the handling, storing, treating, disposing or transporting of solid waste;	N/A			

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.16(e)(5)(ii)	(ii) the owner, operator or applicant has been convicted of a criminal offense, under the laws of any state or of the United States, which involves a violent felony offense, fraud, bribery, perjury, theft or an offense against public administration as that term is used in article 195 of the Penal Law; or	N/A			
360.16(e)(5)(iii)	(iii) the owner, operator or applicant has in any matter within the jurisdiction of the department knowingly falsified or concealed a material fact, knowingly submitted a false statement or made use of or made a false statement on or in connection with any document or application submitted to the department.	N/A			
360.16(f)	(f) Permit modifications. An application to modify a permit must include a description of the proposed modification, a description of the impacts of the proposed modification on the facility, and a demonstration that, under the modified permit, the facility will comply with applicable parts of this Title.	N/A			
360.16(f)(1)	(1) For the purposes of Part 621 of this Title, the department will treat an application to modify a permit for a facility as a new application if, in addition to the reasons described in section 621.11(h) of this Title, any of the following conditions are met:	N/A			
360.16(f)(1)(i)	(i) a horizontal or vertical increase in size of a andfill beyond the limits approved in the permit; or	N/A			
360.16(f)(1)(ii)	(ii) in the absence of a minor project designation under paragraph 621.4(m)(2) of this Title, an expansion or acceptance rate increase at any facility.	N/A			
360.16(f)(2)	(2) A permit modification may be required if the owner or operator of a facility with a permit proposes to include a facility component on the site that would otherwise qualify as a registered facility or collection event.	N/A			
360.16(g)	(g) Permit renewals	N/A			
360.16(g)(1)	(1) Submission deadline. A complete application for renewal of a permit must be submitted at least 180 days before the existing permit expires in order to be considered timely for the purposes of the State Administrative Procedure Act. An application for renewal of the permit must be made on forms authorized by the department.	N/A			
360.16(g)(2)	(2) Renewal application contents. An application for renewal of a permit must include the following:	N/A			
360.16(g)(2)(i)	(i) an updated record of compliance and a demonstration that the facility will be capable of compliance with all applicable requirements of the ECL and this Title and with all permit conditions and a description of how compliance with the requirements and conditions will be ensured;	N/A			
360.16(g)(2)(ii)	(ii) a demonstration that the facility is consistent with the state solid waste management policy identified under subdivision	N/A			
360.16(g)(2)(ii)(1)	(1) of ECL section 27-0106 and the goals and objectives of the New York State solid waste management plan, with an emphasis on diversion from thermal treatment and disposal; and	N/A			
360.16(g)(2)(iii)	(iii) for a renewal application submitted by or on behalf of a municipality for a facility subject to Part 362 or 363 of this Title, a comprehensive recycling analysis in accordance with section 360.11 of this Part. (iv) submission of an updated Operations and Maintenance Manual.	N/A			
360.16(g)(3)	(3) An application for renewal that includes physical or operational changes to the facility will also be considered a permit modification request.	N/A			
360.16(h)	(h) Facilities at or near sites undergoing a remedial program.	2.9	8		
360.16(h)(1)	(1) If a facility permitted under this Part is proposed to be located at or within 150 feet of the boundary of a site undergoing a remedial program, the applicant must submit an report that discusses the potential impacts of the facility on the remedial program for that site. For the purposes of this subdivision, a remedial program is any activity defined in 6 NYCRR 375-1.2 and subject to ECL Article 27 Title 13 (Inactive Hazardous Waste Disposal Sites), ECL Article 27 Title 14 (Brownfields Cleanup Program sites), ECL Article 56 Title 5 (Environmental Restoration Project sites), ECL Article 52 Title 3 (Hazardous Waste Site Remediation Projects), ECL Article 27 Title 9 (RCRA Corrective Action Program) or the department's Voluntary Cleanup Program, or in Navigation Law Section 176 (Spill Response Program for the cleanup of petroleum discharges). The proposed facility must not interfere significantly with any potential, ongoing or completed remedial program.	2.9	8		
360.16(h)(2)	(2) If a new facility or an expansion of an existing facility is proposed to be located at an inactive hazardous waste site classified as a P site by the department, the applicant must submit as part of a complete application, sufficient information to enable the department to classify the site in question as Class 1, 2, 3, 4 or 5 or to delete the site from the Registry of Inactive Hazardous Waste Disposal Sites.	2.9	8		

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.16(i)	(i) Duration of permits. A permit issued pursuant to this Part will be issued for a period not to exceed ten years.	Statement			
360.16(j)	(j) Supervision and certification of construction. The construction of a facility and each stage of construction of a facility must be undertaken under the supervision of an individual licensed to practice engineering in the State of New York. Upon completion of construction, that individual must certify in writing that the construction is in accordance with the terms of the department issued permit. Operation of the facility and any stage in the operation of a facility cannot commence until approval from the department is received.	N/A			
360.19	**Operating requirements**	Statement			
360.19(a)	(a) Applicability. Except as otherwise provided in this Part or in Parts 361, 362, 363, or 365, or Subpart 374-2 of this Title, the owner or operator of a facility that requires a permit or registration must comply with the requirements of this section.	Statement			
360.19(b)	(b) Water protection.	2.3	6		
360.19(b)(1)	(1) The owner or operator of a facility must prevent waste from being deposited in or entering surface waters or groundwater.	2.3	6		
360.19(b)(2)	(2) The owner or operator of a facility must operate the facility in a manner that minimizes the generation of leachate and that does not allow any leachate to enter surface waters or groundwater except under authority of a State Pollutant Discharge Elimination System permit. 360.18(b)(5) page 69 of 101	2.3	6		
360.19(c)	(c) Waste acceptance and control.	7.1	33-35		
360.19(c)(1)	(1) The owner or operator of a facility must institute, maintain, and enforce a waste control plan. Components of this plan must include, but not be limited to, the following measures to ensure that only authorized waste is accepted at the facility:	7.1	33-35		
360.19(c)(1)(i)	(i) posting clearly legible signs at all public access points indicating hours of operation and the types of waste accepted and not accepted;	7.1	33		
360.19(c)(1)(ii)	(ii) inspecting incoming loads of waste; and	7.1	33		
360.19(c)(1)(iii)	(iii) specifying which types of waste are authorized to be accepted in contracts with waste suppliers.	7.1	34		
360.19(c)(1)(iv)	(iv) identifying materials intended for beneficial use, a marketing plan for those materials, and a plan for disposal or alternative use of materials that fail to meet the criteria for the intended beneficial use.	N/A			
360.19(c)(1)(v)	(v) in addition, landfills, combustion facilities, thermal treatment facilities, municipal solid waste processing facilities and transfer facilities must:	N/A			
360.19(c)(1)(v)(a)	(a) educate users of their facilities on the proper methods for the management of electronic waste, including:	N/A			
360.19(c)(1)(v)(a)(1)	(1) providing written information annually to all potential users of the facility on the proper methods of recycling electronic waste;	N/A			
360.19(c)(1)(v)(a)(2)	(2) maintaining written information on-site and upon request, providing the information to users of the facility; and	N/A			
360.19(c)(1)(v)(a)(3)	(3) posting, in conspicuous locations at the facility, signs stating that electronic waste cannot be disposed of at the facility; and	N/A			
360.19(c)(1)(v)(b)	b) post a sign, in a conspicuous location, stating that mercury-added thermostats are not accepted at the facility.	N/A			
360.19(c)(2)	(2) Except for facilities regulated under section 360.17 and section 360.18 of this Part or Part 361, Part 365, or Subpart 362-4 of this Title, a facility must not accept waste from New York State that is generated within a municipality that is not included in a department-approved comprehensive recycling analysis (CRA) or a department-approved local solid waste management plan (LSWMP).	N/A			
360.19(c)(3)	(3) The owner or operator of a facility must develop and implement a program to train facility staff to implement the waste control plan.	12.3, 12.4	57-60		
360.19(c)(4)	(4) If unauthorized waste is delivered to the facility it must be adequately segregated, secured, and contained in order to prevent leakage or contamination of the environment and must be removed within seven days after receipt, unless a different period is authorized by the department in the waste control plan. Transportation must be performed by a person authorized to transport the waste, and disposition must be to a facility or location authorized to receive the waste for management.	5.6	19-20		
360.19(c)(4)(i)	(i) If the owner or operator accepts unauthorized waste, the owner or operator must maintain at the facility a record of each incident identifying the type of waste and its final disposition. The owner or operator must include this information in the facility annual report. For each incident, the owner or operator must record:	5.7	20-21		
360.19(c)(4)(i)(a)	(a) the date and time;	5.7	20-21		

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.19(c)(4)(i)(b)	(b) a description of the incident;	5.7	20-21		
360.19(c)(4)(i)©	(c) contact and vehicle information for the waste transporter that delivered the unauthorized waste;	5.7	20-21		
360.19(c)(4)(i)(d)	(d) contact information for the generator of the unauthorized waste; and 360.19(c) page 70 of 101	5.7	20-21		
360.19(c)(4)(i)(e)	(e) a description of the response to the incident and the disposition of the waste.	5.7	20-21		
360.19(c)(5)	(5) The owner or operator of a facility must not accept waste unless the vehicle transporting the waste is adequately covered or the waste is containerized. When leaving the facility, all vehicles containing waste must utilize a cover which prevents waste and leachate from escaping the vehicle, or the waste must be containerized.	5.10, 6.3	25, 28		
360.19(c)(6)	(6) The owner or operator of a facility which is authorized to manage mercury-containing devices or mercury-added consumer products must not place any of those materials in a combustor or landfill, or direct the material to a combustor or landfill.	N/A			
360.19(c)(7)	(7) If a facility provides a residential drop-off area for non-commercial vehicles to unload waste and recyclables, the owner or operator must provide a separate, designated area for that activity and must provide for collection of source-separated recyclables, if other collection is not provided to residents.	N/A			
360.19(c)(8)	(8) The owner or operator of a facility must ensure that all waste leaving the facility is destined to be managed at a facility authorized by the department if located in this state, or authorized by the appropriate governmental agency or agencies if located in another state, territory, or nation.	5.2	16		
360.19(c)(9)	(9) The owner or operator of a facility must ensure that all unloading and loading areas are adequate in size and designed to facilitate efficient movement of waste to and from the collection vehicles and to facilitate the unobstructed movement of vehicles.	2.7, 3.1	7, 10		
360.19(c)(10)	(10) The owner or operator of a facility must ensure that all areas containing waste are strictly and continuously secured to prevent unauthorized access by use of fencing, gates, signs, natural barriers, or other suitable means as determined by the department. Waste must not be used as a barrier.	7.1	34		
360.19(c)(11)	(11) The owner or operator of a facility must ensure that storage volumes and throughput limits established by the requirements of this Part 360, 361, 362, 363, or 365 of this Title or by the volumes and throughput declared on the registration form for the facility are not exceeded.	2	3		
360.19(c)(12)	(12) An attendant must be on duty at a facility which has permanent operating mechanical equipment whenever the facility is open.	2	4		
360.19(d)	(d) Operation and maintenance. The owner or operator of a facility must ensure that the following criteria are satisfied:	6.3	28		
360.19(d)(1)	1) All maintenance and operating activities at the facility are performed in accordance with the facility manual required by 360.16(c)(4) of this Part, if applicable.	6.3	28		
360.19(d)(2)	(2) The facility accommodates expected traffic flow in a safe and efficient manner. Facility roadways are passable in all weather conditions.	4	13	Drawings C-03 & C-04	
360.19(d)(3)	(3) Tracking of soil, waste, leachate and other materials from the facility onto off-site roadways is prevented.	6.3	28		
360.19(d)(4)	(4) All equipment, storage containers, and storage areas are sufficient for the quantity and type of waste managed at the facility. Adequate numbers, types, and sizes of properly maintained equipment are available during all hours of operation.	6.1	27		
360.19(d)(5)	(5) All floors and working areas are adequately drained, properly maintained, and standing water is minimized. All drainage and wash waters are collected and handled in a manner acceptable to the department.	6.3	28		
360.19(d)(6)	(6) The facility is properly graded to prevent soil erosion and to minimize ponding.	2, 6.3	3, 28		
360.19(d)(7)	(7) Equipment and systems required to 360.19(c)(4)(i)(e) page 71 of 101 manage waste at the facility are properly operated, calibrated, and maintained at all times.	6.2	27		
360.19(d)(8)	(8) Prior to leaving the facility, any vehicle containing waste must be covered with, at a minimum, a mesh or fabric cover acceptable to the department.	6.3	28		
360.19(d)(9)	(9) If an unscheduled total facility shutdown exceeds 24 hours, the facility will immediately notify the department describing the incident and the proposed waste management activities.	9.3	41		

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.19(e)	(e) Routine inspection. The owner or operator of a facility must monitor and inspect the facility for malfunctions, deteriorations, operator errors, and incidents no less frequently than on a daily basis when the facility is open. The owner or operator of a facility must immediately undertake any and all measures needed to eliminate any violation of an operational, closure, or postclosure care requirement of this Part and of Part 361, 362, 363, and 365 of this Title. Measures taken do not preclude the department from exercising its enforcement powers.	6.3	28		
360.19(f)	(f) Confinement of waste. The owner or operator of a facility must ensure that waste at the facility is confined to an area that can be effectively maintained, operated, and controlled; and that blowing litter is confined to waste holding and operating areas by fencing or other suitable means. Any litter outside the waste holding area must be controlled.	2.4	6		
360.19(g)	(g) Dust control. The owner or operator of a facility must ensure that dust is effectively controlled so that it does not constitute a nuisance as determined by the department; and must undertake any and all measures as required by the department to maintain and control dust at and emanating from the facility.	10.2	43		
360.19(h)	(h) Vector control. The owner or operator of a facility must effectively control on-site populations of vectors.	10.3	43		
360.19(i)	(i) Odor control. The owner or operator of a facility must ensure that odors are effectively controlled so that they do not constitute a nuisance as determined by the department.	10.4	43		
360.19(j)	(j) Noise. The owner or operator of a facility must ensure that noise (other than that occurring during construction of the facility) resulting from equipment or operations at the facility does not exceed the following energy equivalent sound levels beyond the property line owned or controlled by the owner or operator of the facility at locations authorized for residential purposes: Character of Community within a one-mile radius of facility Leq Energy Equivalent Sound Levels Time 7 a.m. to 10 p.m. 10 p.m. to 7 a.m. Rural 57 decibels (A) 47 decibels (A) Suburban 62 decibels (A) 52 decibels (A) Urban 67 decibels (A) 57 decibels (A) The Leq is the equivalent steady-state sound level which contains the same acoustic energy as the time varying sound level during a one-hour period. It is not necessary that the measurements be taken over a full one-hour time interval, but sufficient measurements must be available to allow a valid extrapolation to a one-hour time interval.	10.5	43-44		C
360.19(j)(1)	(1) If the background sound level exceeds the referenced Leq sound level limit, the Leq sound levels from facility sources and background sources when combined must not exceed the Leq sound level of the background sources alone by more than 3 decibels (A). 360.19(d)(7) page 72 of 101	10.5	43-44		C
360.19(j)(2)	(2) The background sound level, measured as Leq, is the existing ambient sound level during a period of peak acoustical energy measured in the absence of sound produced by equipment or operations at the facility. A background sound level monitoring protocol must be submitted to the Department for approval prior to conducting background measurements.	10.5	43-44		C
360.19(j)(3)	(3) Sound levels must be measured using the slow time constant and A-weighting. During the measurement period, no precipitation must occur and wind speeds must not exceed 12 miles per hour.	10.5	43-44		C
360.19(j)(4)	(4) Measuring instruments must be Type 1 or Class 1 precision sound level meters, Type 2 or Class 2 general purpose sound level meters, or corresponding special sound level meters Type S1A or S2A.	10.5	43-44		C
360.19(j)(5)	(5) Noise assessments must include details of the attenuation factors and calculations utilized. Noise assessment calculations are allowed to utilize average annual conditions when calculating atmospheric attenuation.	10.5	43-44		C
360.19(j)(6)	(6) Mufflers are required on all internal combustion-powered equipment used at the facility.	10.5	43-44		C
360.19(k)	(k) Recordkeeping and reporting.	8.1	36		
360.19(k)(1)	(1) Application documents. The owner or operator of a facility must maintain at the facility or other approved location, and make readily available for inspection throughout the life of the facility including the post-closure care period and the custodial care period, a copy of all information and data required as part of the application for the permit or submittal for registration, as well as construction certification and closure construction certification documents.	8.1	36		
360.19(k)(2)	(2) Operating records. The owner or operator of a facility must maintain at the facility or other approved location, and make readily available for inspection for a period of no less than seven years from the date a particular record was created, the following operating records:	8.1	36		

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.19(k)(2)(i)	(i) A daily log of wastes received that identifies the waste type, quantity, date received, and planning unit where the waste was generated, and the quantity and destination of any waste, products or recyclables that are removed from the facility.	8.1	36		
360.19(k)(2)(ii)	(ii) Routine inspection logs that must include, at a minimum, the following information: the date and time of the inspection, the name of the inspector, a description of the inspection including the identity of specific equipment and structures inspected, the observations recorded, and the date and nature of any remedial actions implemented or repairs made as a result of the inspection.	8.1	36		
360.19(k)(2)(iii)	(iii) All monitoring information necessary for compliance with the requirements of this Part and the requirements applicable to permitted facilities in Parts 361, 362, 363, and 365 of this Title.	8.1	36		
360.19(k)(2)(iv)	(iv) Records documenting training programs, schedules, and certifications as required.	8.1	36		
360.19(k)(2)(v)	(v) Any other information required in a permit or registration under this Part or that the department may require be created and maintained as part of the daily operating records.	8.1	36		
360.19(k)(3)	(3) Annual report.	8.3	37		
360.19(k)(3)(i)	(i) The owner or operator of a facility must submit a completed annual report in a format acceptable to the department no later than March 1 of each year for the previous calendar year, on forms prescribed by the department.	8.3	37		
360.19(k)(3)(ii)	(ii) The owner or operator of a facility required to report to the department related to the facility's compliance under this Part or Parts 361, 362, 363, or 365 of this Title, or under the terms of any permit issued under this Part, must make, 360.19(j)(2) page 73 of 101 sign, and submit with the report the following certification:	8.3	37		
360.19(k)(3)(ii)	I certify, under penalty of law, that the data and other information identified in this report have been prepared under my direction and supervision in compliance with the system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.	8.3	37		
360.19(l)	(l) Personnel training. The owner or operator of a facility must ensure sufficient and appropriately trained staff are available to manage the quantity and type of waste that will be handled at the facility.	12.2	57		
360.19(m)	(m) Emergency Response. The owner or operator of a facility must adequately respond to emergencies such as fires, explosions, natural disasters, and spills that occur at the facility.	11.3	47		
360.19(n)	(n) Tank Requirements. The owner or operator of a facility that includes tanks for waste storage must comply with the following requirements:	N/A			
360.19(n)(1)	(1) All tanks must:	N/A			
360.19(n)(1)(i)	(i) be chemically compatible with the waste being stored;	N/A			
360.19(n)(1)(ii)	(ii) be equipped with an overfill prevention system in good working order; and	N/A			
360.19(n)(1)(iii)	(iii) have double-walled construction with leak detection, if deemed necessary by the department.	N/A			
360.19(n)(2)	(2) If required by the department, above ground tanks must:	N/A			
360.19(n)(2)(i)	(i) have and maintain a secondary containment system that is compatible with the waste being stored;	N/A			
360.19(n)(2)(ii)	(ii) have a secondary containment system designed and built to contain 110 percent of the volume of either the largest tank within the containment system or the total volume of all interconnected tanks, whichever is greater;	N/A			
360.19(n)(2)(iii)	(iii) be located on a stable surface which prevents movement, rolling, or settling;	N/A			
360.19(n)(2)(iv)	(iv) (iv) have a system to remove stormwater from the secondary containment area. Precipitation removal (rain, snow, or ice) must be initiated before ten percent of the storage capacity is reached; and (v) have a minimum of two feet of freeboard if open on the top.	N/A			
360.19(n)(3)	(3) Self inspection requirements for tanks and related equipment:	N/A			
360.19(n)(3)(i)	(i) tanks must be inspected on no less than a monthly basis when waste is present in the tank, and the interior inspected whenever emptied;	N/A			
360.19(n)(3)(ii)	(ii) if the inspection reveals a leak or any other deficiency that would result in failure of the tank, remedial measures must be taken immediately to eliminate the leak or correct the deficiency; and	N/A			
360.19(n)(3)(iii)	(iii) the overfill protection system must be inspected monthly when waste is present in the tank.	N/A			

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.20	**Environmental monitoring services**	2.10	8-9		
360.20(a)	(a) The department may require environmental monitoring services at any facility anytime during the construction, operation, closure, and post-closure of the facility to be paid for by the facility where:	2.10	8-9		
360.20(a)(1)	(1) environmental monitoring services are required by law; 360.19(k)(3)(ii) page 74 of 101	2.10	8-9		
360.20(a)(2)	(2) the compliance history or past practices of the owner or operator over the past five years reveals an inability or unwillingness to comply with environmental laws and regulations or has included a conviction of an environmental crime or other criminal environmental violation, execution of an order on consent or consent decree, or the issuance of a Commissioner's decision or judgment finding one or more violations;	2.10	8-9		
360.20(a)(3)	(3) the past or current practices at the facility have resulted in conditions which pose a significant threat to public health or the environment, or indicate that significant adverse environmental or health impacts are likely to occur; or	2.10	8-9		
360.20(a)(4)	(4) the department determines the regulated facility, site or regulated activity needs additional oversight due to exceptional circumstances related to its size, throughput, materials handled or location (such as proximity to human use or habitation, to drinking water supplies, to critical or sole source aquifers, to endangered species, to other sensitive receptors or to environmental justice areas) or relating to the nature of its operations.	2.10	8-9		
360.20(b)	(b) If the owner or operator of a facility required to make environmental monitoring payments to the department fails to submit payment by the required submission date, the owner or operator will be notified of their payment delinquency and will be directed to cease acceptance of any and all waste at the facility and commence closure of the facility in accordance with the requirements of this Part and any permit or order to which the owner or operator is subject.	2.10	8-9		
360.20(b)(1)	(1) The owner or operator has the right to object to the direction given pursuant to subdivision 360.20(b), above. Within 20 calendar days of receipt of the written directive from the department, the owner or operator may submit a written objection to the department citing reasons why the facility should not be required to cease accepting waste and commence facility closure, may request a hearing, or both. Submission of the written objection will stay the directive that the facility must cease accepting at the facility and commence closure.	2.10	8-9		
360.20(b)(2)	(2) Within 30 calendar days of receipt of a written objection from an owner or operator, the department will respond in writing.	Statement			
360.21	**Closure requirements**	13.2	61-62		
360.21(a)	(a) Except as otherwise provided in this Part or in Part 361, 362, 363, 365 or Subpart 374-2 of	13.2	61		
360.21(a)(1)	(1) Notify the department in writing 30 days prior to the anticipated final receipt of waste and within seven days of completion of all closure activities.	13.2	61		
360.21(a)(2)	(2) Within 30 days after receiving the final quantity of wastes, submit an annual report to the department as required under this Part.	13.2	61		
360.21(a)(3)	(3) Within 60 days after receiving the final quantity of waste, remove and deliver any remaining waste to a facility authorized to accept the waste.	13.2	61		
360.21(a)(4)	(4) Within 90 days after receiving the final quantity of waste, complete all closure activities, including removal of all products resulting from the processing of waste and decontamination of all equipment and structures involved in any aspect of waste management, in a manner acceptable to the department.	13.2	61		
360.22	**Financial assurance**	14	63		J
360.22(a)	(a) Applicability. Except as otherwise provided in this Part or in Parts 361, 362, 363, 365, or Subpart 374-2 of this Title, the owner or operator of a facility that requires financial assurance must comply with the requirements of this section.	Statement			
360.22(a)(1)	(1) Except as provided in 360.4 of this Part, each owner or operator of a facility required to obtain financial assurance must provide continuous coverage beginning no later than 60 days prior to the initial receipt of waste and until released by the department from financial assurance requirements by demonstrating compliance with the applicable closure, post- closure care, custodial care, and corrective measures requirements pertaining to the facility, and demonstrating that the facility and any waste remaining at the facility do not pose a threat to public health or the environment.	14	63		
360.22(b)	(b) Closure, post-closure care, custodial care, and corrective measures cost estimates.	14.1	63		J

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.22(b)(1)	(1) The owner or operator of any facility required to obtain financial assurance, other than a landfill, must have a detailed written estimate, in current dollars, of the cost of hiring a third party to perform closure in compliance with the requirements in section 360.21 of this Part and Subpart 374-2 of this Title.				J
360.22(b)(1)(i)	(i) At a minimum, the closure cost estimate must include the cost to load, transport and dispose of the maximum permitted storage capacity at that facility. Cost estimates must also include or reflect the design, materials, equipment, labor, administration, and quality assurance for closure in accordance with the facility-specific closure plan. Additional financial assurance may be required on a site- specific basis if the potential exists for storage beyond the permitted storage capacity.	14.1	63		J
360.22(b)(1)(ii)	(ii) The closure cost estimate must not incorporate any salvage value that may be realized with the sale of materials, facility structures or equipment, land, or other assets associated with the facility at the time of closure.	14.1	63		J
360.22(b)(2)	(2) The owner or operator of a landfill must have a detailed written estimate, in current dollars, of the cost of hiring a third party to perform closure, post-closure care, custodial care, and, if necessary, corrective measures in compliance with the requirements in this Part, Part 363 of this Title, and a department-approved closure plan, post-closure care plan, custodial care plan and corrective measures plan.	N/A			
360.22(b)(2)(i)	(i) At a minimum, the closure cost estimate must equal the cost to close the greatest number of landfill cells which, at any given point during the lifetime of the facility, have received waste but have not undergone final closure, as indicated by the closure plan.	N/A			
360.22(b)(2)(i)(a)	(a) The closure cost estimates must include or reflect the design, materials, equipment, labor, administration, and quality assurance for closure in accordance with the facility-specific closure plan.	N/A			
360.22(b)(2)(i)(b)	(b) The closure cost estimate for a landfill's preliminary closure plan must include the costs of developing final closure, post closure care and custodial care plans as well as the costs to prepare engineering drawings and specifications, bidding documents, and other construction-related documents.	N/A			
360.22(b)(2)(i)(c)	(c) The closure cost estimate must not incorporate any salvage value that may be realized with the sale of materials, facility structures or equipment, land, or other assets associated with the facility at the time of closure.	N/A			
360.22(b)(2)(ii)	(ii) At a minimum, the post-closure care cost estimate must be based on the number of landfill cells that are actively receiving waste and those that have undergone final closure, as indicated by the post-closure care plan. The post-closure care cost estimate must account for the total costs of conducting post-closure care, including annual and periodic costs, as well as replacement costs related to the predicted service life of landfill components as described in the post-closure care plan, over a rolling 30-year post-closure care period.	N/A			
360.22(b)(2)(iii)	(iii) At a minimum, the custodial care cost estimate must be based on the number of landfill cells that have undergone final closure, as indicated by the custodial care plan. The custodial care cost estimate must account for the total costs of conducting custodial care after the landfill concludes post-closure care activities, including annual and periodic costs, as well as replacement costs related to the predicted service life of landfill components as described in the custodial care plan, over a rolling 30-year custodial care period. The initial custodial care cost estimate must be submitted to the department as part of the demonstration that the threat to public health or the environment has been reduced to a level where environmental monitoring and maintenance can be reduced.	N/A			
360.22(b)(2)(iv)	(iv) The corrective measures cost estimate must account for the total costs of corrective measures as described in the corrective measures work plan for the entire corrective measures period as described in Subpart 363-10 of this Title.	N/A			
360.22(b)(2)(v)	(v) The total cost estimate must be increased by a contingency factor of at least 15 percent for estimates up to $100,000, ten percent for estimates between $100,000 and $1 million, and five percent for estimates above $1 million.	N/A			
360.22(b)(2)(vi)	(vi) The supporting documentation used to substantiate the cost estimates must be submitted to the department for review with the cost estimates.	N/A			
360.22(b)(2)(vii)	(vii) The department must approve closure, post-closure care, custodial care, and corrective measures cost estimates.	N/A			
360.22(b)(3)	(3) Annual cost estimate adjustments.	Statement			

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.22(b)(3)(i)	(i) During the active life of a facility, other than a landfill that requires financial assurance, the owner or operator must annually submit to the department for review and approval adjusted closure cost estimates, including supporting justification to account for inflation and changes in facility conditions.	14.1	63		
360.22(b)(3)(ii)	(ii) During the active life of a landfill and during its closure, post-closure care, and custodial care periods, the owner or operator must annually submit to the department for review and approval adjusted closure, post- closure care, custodial care, and corrective measures cost estimates including supporting justification to account for inflation and changes in facility conditions.	N/A			
360.22(b)(3)(iii)	(iii) The adjusted cost estimates can be made by:	14.1	63		
360.22(b)(3)(iii)(a)	(a) recalculating the maximum costs estimates in current dollars, or	14.1	63		
360.22(b)(3)(iii)(b)	(b) using an inflation factor described in 6 NYCRR 373-2.8(c)(2).	14.1	63		
360.22(b)(3)(iv)	(iv) Each annual adjustment to the post- closure care cost estimate and the custodial care cost estimate must reflect the cost for a combined 30-year period from the date of each annual adjustment.	14.1	63		
360.22(b)(3)(v)	(v) For owners and operators that use a local government financial test or guarantee, the cost estimates must be updated for inflation within 90 days after the close of the municipality's fiscal year.	N/A			
360.22(b)(4)	(4) Discounting. The department may approve discounted estimates of post-closure care, custodial care costs and/or of corrective measures costs up to the rate of return for essentially risk-free investments, net of inflation, under the following conditions:	N/A			
360.22(b)(4)(i)	(i) the department determines that the cost estimates are complete and accurate and the owner or operator of the facility that is the subject of the cost estimates has submitted a certification from a professional engineer that the estimates are complete and accurate;	N/A			
360.22(b)(4)(ii)	(ii) the department finds the facility that is the subject of the cost estimates is in compliance with applicable permit or other department conditions, this Part, and with Parts 361, 362, 363, or 365, or Subpart 374-2 of this Title as they pertain to the facility;	N/A			
360.22(b)(4)(iii)	(iii) the department determines that the closure date is certain and the owner or operator certifies that there are no foreseeable factors that will change the estimate of the remaining active life of the facility; and	N/A			
360.22(b)(4)(iv)	(iv) discounted cost estimates must be adjusted annually to reflect inflation and years of remaining active life and/or years remaining in the period covered by the estimate.	N/A			
360.22(b)(5)	(5) Submission. The owner or operator must include the cost estimates in the facility annual report submitted to the department and keep a copy at the facility or other approved location.	14.1	63		
360.22(c)	(c) Financial assurance requirements.	14.2	63		
360.22(c)(1)	(1) The terms of any financial assurance mechanisms provided to the department to satisfy compliance with any financial security obligation imposed by this Part or Parts 361, 362, 363, and 365 of this Title must ensure that:	Statement			
360.22(c)(1)(i)	(i) The amount of funds assured is sufficient to cover the costs of closure, and in the case of landfills, post-closure care, custodial care, and corrective measures for known releases when needed. The amount of coverage must be revised whenever necessary to cover a revised cost estimate.	14.2	63		
360.22(c)(1)(ii)	(ii) The funds will be available when needed.	14.2	63		
360.22(c)(1)(iii)	(iii) For landfills, mechanisms for custodial care must be effective no later than 60 days after the determination that the landfill's post-closure care period is complete.	N/A			
360.22(c)(1)(iv)	(iv) Mechanisms for corrective measures must be effective no later than 120 days after the department's approval of the corrective measures remedy.	14.2	63		
360.22(c)(1)(v)	(v) The mechanisms must be legally valid, binding, and enforceable under state and federal law.	14.2	63		
360.22(c)(1)(vi)	(vi) If the financial assurance mechanism is provided by the private operator of a municipally owned landfill, the post-closure mechanism must be one that is transferrable and the fully funded post-closure mechanism must be transferred to the municipality upon closure of the landfill or when the operator is no longer responsible for the facility under agreement with the municipality.	N/A			
360.22(c)(2)	(2) The department may reduce the amount of financial assurance required under this section by the amount of financial assurance obtained by a facility, for closure, post-closure, custodial care or corrective measures, for the benefit of a municipality.	Statement			

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.22(d)	(d) Allowable financial assurance mechanisms. Except where otherwise indicated in subparagraph 360.22(c)(1)(vi), owners and operators must choose from the options specified in paragraphs (1) through (9) of this subdivision for closure.	Statement			
360.22(d)(1)	(1) Trust fund.	Statement			
360.22(d)(1)(i)	(i) An owner or operator of a facility required to provide financial assurance may satisfy the requirements of subdivision (c) of this section by establishing an irrevocable trust fund that conforms to the requirements of this paragraph. The trustee must be an entity with the authority to act as a trustee. An original, signed duplicate of the trust agreement must be submitted to the department along with evidence or a certification by the trustee that the trustee meets the requirements of this paragraph.	14.3	64		
360.22(d)(1)(ii)	(ii) Pay-in period.	Statement			
360.22(d)(1)(ii)(a)	(a) For a trust fund used to demonstrate financial assurance for closure at a facility required to provide financial assurance, other than a landfill, the pay-in period may be no more than one year.	14.3	64		
360.22(d)(1)(ii)(b)	(b) The owner or operator of a landfill constructed on or after the effective date of this section must make payments into the trust fund at least annually over the term of ten years after the initial permit is issued.	N/A			
360.22(d)(1)(ii)(b)(1)	(1) Closure. For a trust fund used to demonstrate financial assurance for closure, the first payment into the fund must be made no later than 60 days before the initial receipt of waste and must be at least equal to the current cost estimate for closure, except as provided in paragraph (9) of this subdivision, divided by the number of years of remaining operating life of the facility if less than ten years or by ten if the remaining operating life is more than ten years. The amount of subsequent payments must be determined by the following formula:	N/A			
360.22(d)(1)(ii)(b)(2)	(2) Post-closure and custodial care. For a trust fund used to demonstrate financial assurance for post-closure and custodial care, the first payment into the fund must be at least equal to the current cost estimate for post-closure care and custodial care, except as provided in paragraph (9) of this subdivision, divided by the number of years of remaining operating life of the facility if less than ten years or by ten if the remaining operating life is more than ten years. The amount of subsequent payments must be determined by the following formula:	N/A			
360.22(d)(1)(ii)(b)(3)	(3) Corrective measures. For a trust fund used to demonstrate financial assurance for corrective measures at a landfill, the owner or operator must make payments into the trust fund at least annually over one-half of the estimated length of the corrective measures program. The first payment into the trust fund must be at least equal to one-half of the current cost estimate for corrective measures, except as provided in paragraph (9) of this subdivision, divided by the number of years in the corrective measures pay-in period. The amount of subsequent payments must be determined by the following formula:	N/A			
360.22(d)(1)(ii)(c)	(c) If the owner or operator establishes a trust fund after having used one or more alternate mechanisms specified in this section, the initial payment into the trust fund must be at least the amount that the fund would contain if the trust fund were established initially and payments made according to the specifications of this paragraph and paragraph (9) of this subdivision, as applicable.	14.3	64		
360.22(d)(1)(ii)(d)	(d) The owner or operator, or other person authorized to conduct closure, post-closure care, custodial care, or corrective measures activities, may request reimbursement from the trustee for these expenditures by submitting itemized bills and supporting documentation to the department for review and approval. If approved, the department will instruct the trustee to make reimbursements in those amounts the department specifies in writing. Requests for reimbursement will be granted only if sufficient funds are remaining in the trust fund to cover the remaining costs of closure, post-closure care, custodial care or corrective measures. The owner or operator or other person authorized must notify the department that reimbursement has been received.	Statement			
360.22(d)(1)(ii)(e)	(e) The owner or operator may terminate the trust fund only if:	Statement			
360.22(d)(1)(ii)(e)(1)	(1) the department authorizes termination in advance and in writing and the owner or operator substitutes alternate financial assurance as identified in this section that provides for continuous financial assurance being in effect until the owner or operator is no longer required to demonstrate financial assurance; or	Statement			
360.22(d)(1)(ii)(e)(2)	(2) the owner or operator is no longer required to demonstrate financial assurance.	Statement			
360.22(d)(2)	(2) Surety bond guaranteeing payment.	Statement			

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.22(d)(2)(i)	(i) An owner or operator of a facility required to provide financial assurance may satisfy the requirements of subdivision (c) of this section by obtaining a payment surety bond that conforms to the requirements of this paragraph. Except as required under subdivision 360.4(j) of this part, the bond for closure and in the case of a landfill, post-closure care, and custodial care must be effective no later than 60 days before the initial receipt of waste; and, the bond for corrective measures at a landfill must be effective no later than 120 days after the department's approval of the corrective measures remedy. The surety company issuing the bonds described in this subparagraph must, at a minimum, be among those listed as acceptable sureties on Federal bonds in Circular 570 of the U.S. Department of the Treasury. The original bond must be submitted to the department along with evidence or a certification by the surety company that the surety company meets the requirements of this subparagraph.	14.3	64		
360.22(d)(2)(ii)	(ii) The penal sum of the bond must be an amount at least equal to the current cost estimate for closure, post-closure care, custodial care, or corrective measures, if applicable, except as provided in paragraph (9) of this subdivision.	14.3	64		
360.22(d)(2)(iii)	(iii) Under the terms of the bond, the surety will become liable on the bond obligation if the owner or operator fails to perform as guaranteed by the bond, or fails to provide alternate financial assurance as specified in this section and obtain the department's written approval of the assurance provided within 90 days after the owner or operator and the department receive a notice of cancellation of the bond from the surety.	14.3	64		
360.22(d)(2)(iv)	(iv) For bonds which are valued at $50,000 or more, the owner or operator must establish a standby trust fund. The standby trust fund must meet the requirements of paragraph (1) of this subdivision except the requirements for initial payment and subsequent payments specified in subparagraph (ii) of paragraph (1) of this subdivision. The provisions in the trust agreement, as specified in paragraph (1) of this subdivision, for submitting annual valuations and notices of nonpayment also do not apply to a standby trust agreement established pursuant to this subparagraph until payments from the bond or other sources are deposited into the trust fund.	14.3	64		
360.22(d)(2)(v)	(v) Payments made under the terms of the bond will be deposited by the surety directly into the standby trust fund, or as otherwise directed by the department. Payments from the standby trust fund must be approved in advance by the department in writing.	Statement			
360.22(d)(2)(vi)	(vi) Under the terms of the bond, the surety may cancel the bond by sending notice of cancellation by certified mail to the owner and operator and to the department 120 days in advance of cancellation. If the surety cancels the bond, the owner or operator must obtain alternate financial assurance as specified in this section. Any notice of cancellation, reinstatement, or renewal of the bond, or any other notice relating to the bond, must clearly identify the owner or operator and each facility for which the bond provides financial assurance, including the name and address of the owner or operator, and the name, address and amount guaranteed for each facility.	Statement			
360.22(d)(2)(vii)	(vii) The owner or operator may cancel the bond only if:	Statement			
360.22(d)(2)(vii)(a)	(a) the department authorizes cancellation in advance and in writing and the owner or operator substitutes alternate financial assurance as identified in this section that provides for continuous financial assurance being in effect until the owner or operator is no longer required to demonstrate financial assurance; or	Statement			
360.22(d)(2)(vii)(b)	(b) the owner or operator is no longer required to demonstrate financial assurance.	Statement			
360.22(d)(3)	(3) Letter of Credit.	N/A			
360.22(d)(4)	(4) Local government financial test.	N/A			
360.22(d)(5)	(5) Local government guarantee.	N/A			
360.22(d)(6)	(6) Reserve fund. A capital reserve fund or a solid waste management facility reserve fund established and funded pursuant to the General Municipal Law satisfies these requirements provided the pay-in period is consistent with paragraph (1) of this subdivision.	N/A			
360.22(d)(7)	(7) The full faith and credit of New York State or the Federal government shall be used for facilities owned or operated by New York State or the Federal government.	N/A			

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
360.22(d)(8)	(8) Use of multiple financial mechanisms. An owner or operator required to provide financial assurance may satisfy the requirements of this subdivision by establishing more than one financial assurance mechanism per facility. The mechanisms must be as identified in paragraphs (1) through (6) of this subdivision, except that it is a combination of mechanisms, rather than the single mechanism, which must provide financial assurance for an amount at least equal to the current cost estimate for closure, post-closure care, custodial care or corrective measures, whichever is applicable. If the owner or operator uses a trust fund in combination with a surety bond or a letter of credit, the trust fund may be used as the standby trust fund for the other mechanisms. A single standby trust fund, if required, may be established for two or more mechanisms. The department may allow the use of any or all of the mechanisms to provide for closure, post-closure care, custodial care or corrective measures of the facility.	N/A			
360.22(d)(9)	(9) Use of a financial mechanism for multiple facilities. An owner or operator required to provide financial assurance may use a financial assurance mechanism identified in subdivision (d) of this section to meet the requirements of this section for more than one facility. Evidence of financial assurance submitted to the department must include a list showing, for each facility, the name, address, and the amount of funds assured by the mechanism. The amount of funds available through the mechanisms must be no less than the sum of funds that would be available if a separate mechanism had been established and maintained for each facility. In directing funds available through the mechanisms for closure, post-closure care, custodial care or corrective measures of any of the facilities covered by the mechanism, the department may direct only the amount of funds designated for the facility, unless its owner or operator agrees to the use of additional funds available under the mechanism.	N/A			
360.22(e)	(e) Wording of instruments.	Statement			
360.22(e)(1)	(1) For instruments covering one or more facilities required to provide financial assurance located entirely within one administrative region of the department, the owner or operator of the facility or facilities must submit each original instrument to the director of the administrative region of the department in which the facility or facilities are located, and submit a copy to the director of the Division of Materials Management or successor administrative unit.	14.4	64		
360.22(e)(2)	(2) For instruments covering one or more facilities required to provide financial assurance located in more than one administrative region of the department, the owner or operator of the facility or facilities must submit each original instrument to the director of the Division of Materials Management or successor administrative unit, and submit a copy to each director of the administrative regions of the department in which the facility or facilities are located:	N/A			
360.22(e)(3)	(3) A trust agreement for a trust fund, as identified in paragraph (1) of subdivision (d) of this section, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:	14.4	64		J
365-2.4	**Permit application requirements**	Statement			
365-2.4(a)	Waste Control Plan	Statement			
365-2.4(a)(1)	(1) the notification program to instruct the generators who will use the facility of the types of RMW that will be accepted and/or treated at the facility including source and quantity. The description of the quantity must specify the expected average and maximum daily and annual amounts, on a weight and volume basis. These quantities must be specified for each general category of RMW;	5.2	17-19		H
365-2.4(a)(2)	(2) the service area, that includes a list of all planning units and other generators that are served must be included;	1.1	1		
365-2.4(a)(3)	(3) special waste management if any of the following wastes are accepted:	5.8	21-22		H
365-2.4(a)(3)(i)	(i) reusable secondary containers including sharps containers;	5.8	21		H
365-2.4(a)(3)(ii)	(ii) reusable medical devices, disposed as RMW by the generator;	5.8	22		H
365-2.4(a)(3)(iii)	(iii) waste (including sharps) containing pharmaceuticals or other chemicals;	5.8	22		H
365-2.4(a)(3)(iv)	(iv) wastes from a Biosafety level 3 or 4 laboratory; or	5.8	22		H
365-2.4(a)(3)(v)	(v) waste containing select agents or toxins of biological origin listed in 9 CFR Part 121 and 42 CFR Part 73 or other infectious wastes.	5.8	22		H
365-2.4(a)(4)	(4) how the facility will ensure that it only receives RMW or other wastes capable of being managed at the facility;	5.2	18		
365-2.4(a)(5)	(5) how the facility will identify, store, and dispose of all waste received that cannot be managed at the facility, such as anatomical or pathological waste;	5.2	16-17		
365-2.4(a)(6)	(6) the methods used to inspect all containers received to ensure that they are in compliance with this Subpart;	5.2	16-17		

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
365-2.4(a)(7)	(7) the methods used to manage the waste that ensures odor, litter and vectors are controlled;	10.4	43		
365-2.4(a)(8)	(8) how the facility will be managed to ensure compliance with all applicable storage requirements;	2.1	4-5		
365-2.4(a)(9)	(9) how the facility will handle spills, breached containers or contaminated equipment used for handling the waste;	11.4	50		
365-2.4(a)(10)	(10) how inventory will be managed; and	2	3	Drawing C-02	
365-2.4(a)(11)	(11) the method that will be used to manage the required tracking forms.	8.5	37-38		
365-2.4(b)	(b) Operation and maintenance plan. The operation and maintenance plan must include:	Statement			
365-2.4(b)(1)	(1) a description of the overall operation of the facility including:	Statement			
365-2.4(b)(1)(i)	(i) a radioactive waste detection plan that includes procedures for detecting prohibited radioactive material; operation and maintenance documents for radiation detectors including investigation alarm set point settings and calibration methods; and response procedures to be implemented when radioactive waste is detected;	2.2	6		B
365-2.4(b)(1)(ii)	(ii) the method for unloading; and	2.7, 5.9	7, 22		
365-2.4(b)(1)(iii)	(iii) the method for decontaminating emptied reusable RMW containers and facility equipment which are contaminated with RMW as follows:	5.10	23-26		
365-2.4(b)(1)(iii)(a)	(a) for cleaning, use of a detergent and sufficient agitation or pressure to remove visible contamination from a surface; and	5.10	23-26		
365-2.4(b)(1)(iii)(b)	(b) for disinfection, exposure to hot water at a temperature of at least 180 degrees Fahrenheit (82 degrees Celsius) for a minimum of 15 seconds, or exposure to a chemical disinfectant registered for use by the department and used according to the manufacturer's label directions.	5.10	23-26		
365-2.4(b)(2)	(2) a list of the type, purpose, size, capacity, and associated detention times for all RMW storage, treatment, and transfer equipment and structures, with supporting capacity calculations;	2, 2.1	3, 4-5		
365-2.4(b)(3)	(3) a process flow diagram for RMW management during operation. The flow diagram must indicate the average and maximum daily quantity of material handled on a weight and volume basis;	2	3		D
365-2.4(b)(4)	(4) a description of all security measures used during operation of the facility;	7.1	34		
365-2.4(b)(5)	(5) the operational procedures for each major facility component involved in RMW management;	6.1	27		
365-2.4(b)(6)	(6) a description of monitoring and inspection that will be used to identify and correct equipment malfunctions or deteriorations, operator errors, and other malfunctions;	1.5, 6.4	2, 29		
365-2.4(b)(7)	(7) a description of the proposed measures to handle RMW during periods of routine maintenance, emergencies, equipment breakdown, or facility startup and shutdown;	6.4, 9	29, 40-42		
365-2.4(b)(8)	(8) a description of the daily cleaning and maintenance operations and scheduled downtime maintenance each year and anticipated schedules for major equipment replacement;	6.4	29		
365-2.4(b)(9)	(9) a description of how all equipment, personal protective equipment (PPE), or other items that have contacted RMW will be disinfected including identification of the disinfectant proposed to be used; and	5.10	23-26		
365-2.4(b)(10)	(10) a list of receiving facilities that will be used for treatment or disposal.	3.2	12		I
365-2.4(c)	(c) Personnel training and safety plan. The plan must include:	12.4	57-60		
365-2.4(c)(1)	(1) a description of the employee training program that will be used to teach employees how to correctly operate the equipment they must operate and to discover problems with that equipment;	12.4	57-60		
365-2.4(c)(2)	(2) a general awareness and familiarization component that outlines how each employee will become familiar with the risks associated with the handling of the RMW and how those risks can be minimized; and	12.4	57-60		
365-2.4(c)(3)	(3) a training component on how to manage compromised packaging, spills, emergencies, or unauthorized wastes.	12.4	57-60		
365-2.4(d)	(d) Contingency plan. The plan must describe the actions that will be taken to address potential operational problems including, but not limited to, compromised packaging, equipment malfunction or breakdown, delivery of unauthorized waste, waste not packaged appropriately, spills, fire, explosion, power failure, excessive noise, unacceptable odors, litter, and vectors. The plan must also include a contingency for treatment or disposal should processing equipment be non-functional for a period longer than seven calendar days.	11.5	51		

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
365-2.4(e)	(e) A wash-water management plan. The plan must describe the facility's drainage system and the amount, with supporting calculations, of wash-water emanating from the cleaning of areas, reusable containers or equipment that have come in contact with RMW and the method to collect, store, treat or dispose of wash-water.	11.6	55		
365-2.4(f)	(f) Treatment equipment description. Treatment facilities must provide a detailed description of the treatment device(s) including:	N/A			
365-2.4(f)(1)	(1) an outline of the equipment features (e.g., manufacturer name, model number, capacity and material of construction), ancillary equipment, physical characteristics and function; and a drawing of the equipment showing piping and instrumentation;	N/A			
365-2.4(f)(2)	(2) evidence of manufacturer efficacy testing, including the use of biological indicators analyzed by an independent laboratory;	N/A			
365-2.4(f)(3)	(3) a list of the operating parameters (e.g., temperature, pressure, time, irradiation or chemical levels, etc.) that will be attained for microbial inactivation;	N/A			
365-2.4(f)(4)	(4) the frequency, location, and method for monitoring the operating parameters;	N/A			
365-2.4(f)(5)	(5) the procedures for and frequency of calibration of all instruments and controls;	N/A			
365-2.4(f)(6)	(6) the procedures for loading the treatment device and unloading the treated waste; and,	N/A			
365-2.4(f)(7)	(7) for facilities using an alternative treatment system, a copy of the New York State Department of Health (NYSDOH) approval issued to the system's manufacturer or operator.	N/A			
365-2.4(g)	(g) Validation plan for treatment systems. The plan must describe the procedures for validation and biochallenge testing including, but not limited, to the types of biological indicators employed, the timing of all testing, the location of all monitoring points, protocols and methods for monitoring, laboratory analytical techniques employed, and the laboratory(ies) that will be used for analyses. The plan must also provide sufficient information to address each of the applicable requirements identified in sections 365-2.5, 365-2.6 and 365-2.7 of this Subpart.	N/A			
365-2.4(h)	(h) A certification that the facility conforms with existing local zoning laws or ordinances.	1.2	2		
365-2.4(i)	(i) Closure plan. The plan must describe how all the equipment and facility surfaces will be disinfected, tested for microbial inactivation and how the facility will be properly closed.	13.3	61		
365-2.5	**Section 365-2.5 Design and operating requirements.**	Statement			
365-2.5	A facility required to obtain a permit under this Subpart must, in addition to the requirements identified in section 360.19 of this Title, design, construct, maintain, and operate the facility in compliance with the following criteria.	Statement			
365-2.5(a)	(a) An RMW tracking document must be received for each shipment of RMW accepted at the facility. The facility must not accept waste from unauthorized off-site sources (e.g., self-transporters, generators not authorized by the permit, etc.), or waste which is not accompanied by a tracking document. The tracking form must be completed as required as specified in the instructions on the form.	2.1, 5.2	4-5, 18		
365-2.5(b)	(b) A fixed radiation detection unit must be installed and operated at a location appropriate for the monitoring of all incoming RMW. In addition:	5.2	18		
365-2.5(b)(1)	(1) the investigation alarm setpoint of the radiation detector must be set at least two times but no greater than five times background radiation levels;				B
365-2.5(b)(2)	(2) the concentration of radiation in any waste received may not exceed background radiation levels;				B
365-2.5(b)(3)	(3) background radiation readings at the facility must be measured and recorded at least daily; (4) field checks of the radiation detector utilizing a known radiation source must be performed and recorded at least weekly;				B
365-2.5(b)(3)(i)	(i) the radiation detector must be calibrated at least annually or more often as recommended by the manufacturer, and documentation describing the calibration must be maintained at the facility; and				B
365-2.5(b)(3)(ii)	(ii) each instance in which the radiation detector is triggered by a waste load must be documented and reported to the department by the next business day following the event. Recorded information must include the date the waste was received, transporter name, origin of the waste, truck number or other identifying marking, detector reading, disposition of the waste, and date of disposition.	5.2	18		B

APPENDIX L
Cross-Reference Table

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
365-2.5(c)	(c) For storage and transfer facilities, the RMW must be maintained in the packaging as received, unless otherwise approved by the department. If any packages are broken, leaking or are otherwise compromised, the RMW must be handled as outlined in the contingency plan. The RMW may only be surrendered to a transporter permitted to transport RMW under Part 364 of this Title.	2.1	5		
365-2.5(d)	(d) Incoming RMW must be handled in accordance with the following criteria.	3.1	10		
365-2.5(d)(1)	(1) RMW must not be accepted unless there is sufficient storage, transfer or treatment capacity.	3.1	10		
365-2.5(d)(2)	(2) RMW must be inspected prior to unloading to ensure the RMW has been packaged appropriately. If any packages are broken, leaking or otherwise compromised, the RMW must be handled as outlined in the contingency plan. Containers of RMW must not be opened for inspection unless authorized by the department.	2.3, 5.2	6, 18		
365-2.5(d)(3)	(3) RMW shipment in bulk packaging cannot be accepted, unless approved by the department as part of the waste control plan.	5.2	19		
365-2.5(d)(4)	(4) The facility must record the date of arrival of each waste load at the facility, the original generator identification, package type and weight or volume, and the intended disposition of the waste. These documents may be maintained electronically.	3.2, 5.2	10 18		
365-2.5(e)	(e) RMW handling and storage.	Statement			
365-2.5(e)(1)	(1) Entry to the facility must be secured and controlled at all times through the use of gates or other means.	7.1	34		
365-2.5(e)(2)	(2) A sign must be conspicuously posted at each entrance to the facility that identifies the types of waste that are acceptable for delivery to the facility and the types of wastes that are not accepted at the facility. This sign must be a minimum of 12 inches high by 18 inches wide and have lettering a minimum of one inch in height. Signs that read "CAUTION - REGULATED MEDICAL WASTE. VISITORS AND UNAUTHORIZED PERSONNEL MUST REPORT TO THE OFFICE." must be posted at each entrance to the facility. These signs must include the universal biohazard warning symbol.	7.1	35		
365-2.5(e)(3)	(3) RMW must be completely contained and secured during storage and with appropriate blocking and bracing when moved by a vehicle during transport.	5.9	22		
365-2.5(e)(4)	(4) RMW storage and handling procedures must minimize potential occupational exposures and release to the environment.	5.9	22		
365-2.5(e)(5)	(5) Containers must be stored in an upright, stable and controlled manner that minimizes the potential for leakage. The top of the stacked containers must not be more than eight feet above the level of the floor. The containers must not be compromised by the manner of storage.	2, 5.9	3, 22-23		
365-2.5(e)(6)	(6) Unauthorized wastes may be temporarily stored in areas specifically designed for these wastes on the facility site in accordance with the waste control plan.	5.6	20	Drawing C-02	
365-2.5(e)(7)	(7) All buildings must be fully enclosed and must have an impermeable floor.	2	3	Drawings C-01 & C-02	
365-2.5(e)(8)	(8) RMW must not be processed to reduce the size prior to treatment, unless approved by the department as part of the operation and maintenance plan.	2	3		
365-2.5(e)(9)	(9) RMW must not be compacted or compressed. RMW placed into bins for consolidation or treatment must be controlled to minimize aerosolization.	2	3		
365-2.5(e)(10)	(10) Trash chutes or slides cannot be used to move RMW between containers, vehicles, or treatment devices unless the movement is controlled to maintain the integrity of the containers.	2.7	7		
365-2.5(e)(11)	(11) Vehicles must be unloaded in a manner that does not cause containers to break or otherwise release RMW.	2.7, 5.9	7, 22		
365-2.5(e)(12)	(12) Storage of RMW that has the ability to become putrescent is limited to: (i) three days if the RMW is stored at 45 degrees Fahrenheit (seven degrees Celsius) or greater;	2	3		
365-2.5(e)(12)(i)	(i) three days if the RMW is stored at 45 degrees Fahrenheit (seven degrees Celsius) or greater;	2	3		
365-2.5(e)(12)(ii)	(ii) seven days if the RMW is stored at less than 45 degrees Fahrenheit (seven degrees Celsius) but greater than 32 degrees Fahrenheit (0 degrees Celsius); and	2	3		
365-2.5(e)(12)(iii)	(iii) 30 days if the RMW is stored at 32 degrees Fahrenheit (0 degrees Celsius) or lower.	2	3		
365-2.5(e)(13)	(13) RMW which becomes putrescent must be treated, refrigerated, or removed from the facility as soon as practicable.	2	3		
365-2.5(e)(14)	(14) Non-putrescent RMW can be stored above 45 degrees Fahrenheit (seven degrees Celsius) for a maximum of 15 days, and a maximum of 30 days if stored at or below 45 degrees Fahrenheit (seven degrees Celsius).	2	3		

Section	Regs	ENG Report Section	ENG Report Page No.	Figure / Drawing	Appendix
365-2.5(e)(15)	(15) Treated RMW must be removed from the facility within 30 days.	N/A			
365-2.5(e)(16)	(16) The facility must be maintained in a clean and sanitary condition, and implement a written schedule of appropriate cleaning and disinfection.	6.3	28		
365-2.5(e)(17)	(17) The unloading and loading areas must be adequately sized and designed to facilitate efficient transfer of RMW to and from the collection vehicles and the unobstructed movement of vehicles. All unloading and loading must be performed within a building and on a covered concrete or asphalt surface.	2.7	7		
365-2.5(f)	(f) RMW recovery and recycling. Recovery of RMW for third-party reprocessing of medical devices, or for reuse or recycling of materials must comply with the following.	N/A			
365-2.5(f)(1)	(1) RMW and used medical devices generated from neurosurgery cannot be recovered or recycled.	N/A			
365-2.5(f)(2)	(2) Used medical devices may be sent to a reprocessor for preparation for reuse without treatment.	N/A			
365-2.5(f)(3)	(3) Used medical devices source separated at healthcare facilities that are managed at RMW processing facilities must be transported directly to the manufacturer, reprocessor or remanufacturer.	N/A			
365-2.5(f)(4)	(4) Recovery, segregation and sorting of used medical devices from RMW received from healthcare facilities. Recovery, segregation and sorting must employ robotic or mechanical equipment, and control the release of microorganisms during processing.	N/A			
365-2.5(f)(5)	(5) RMW to be recycled must be treated with an autoclave in accordance with the RMW treatment requirements of sections 365-2.6 and 365-2.7 of this Part prior to being sent for recycling.	N/A			
365-2.5(f)(6)	(6) Bio-challenge testing must be conducted in accordance with this Subpart for each load of waste treated before recycling. Bio-challenge testing must demonstrate no growth in 'Bacillus' spores for each load of waste proposed to be recycled.	N/A			
365-2.5(f)(7)	(7) Materials recovered for recycling from the RMW stream must be stored at the treatment facility until results of bio-challenge testing results have been obtained. If results indicate that treatment was not sufficient, the materials must be treated again and retested.	N/A			
365-2.8	**Section 365-2.8 Recordkeeping and reporting requirements.**	8.2	36-39		
365-2.8(a)	(a) Recordkeeping. The following records must be maintained on-site for a minimum of three years and must be available for inspection and copying by the department.	8.2	36-37		
365-2.8(a)(1)	(1) A record of RMW managed by quantity and category as specified by the generator on the container and treated at the facility. Categories include cultures and stocks, human pathological 365-2.7(c)(6) page 21 of 23 waste, human blood and blood products, sharps, animal waste, and other (specify characteristics).	8.2	36-37		
365-2.8(a)(2)	(2) A record of how all RMW was managed, including treatment, if applicable. For treatment, copies of certificates of treatment must be retained. For shipment off-site for treatment, copies of tracking documents must be retained.	8.2	36-37		
365-2.8(a)(3)	(3) In addition, treatment facilities must:	N/A			
365-2.8(a)(3)(i)	(i) retain hard copy or electronic records of validation testing and bio-challenge testing, including protocols and test results;	N/A			
365-2.8(a)(3)(ii)	(ii) retain records of parametric monitoring (e.g., the residence time, pressure and temperature of each load treated);	N/A			
365-2.8(a)(3)(iii)	(iii) document each employee's participation in training and/or retraining in treatment equipment operations;	N/A			
365-2.8(a)(3)(iv)	(iv) document corrective actions; and	N/A			
365-2.8(b)	(b) Reporting. The facility must submit an annual report covering the previous calendar year, on forms prescribed by or acceptable to the department. The report must include:	8.4	37		
365-2.8(b)(1)	(1) a summary of the RMW managed, by quantity and if feasible, by category as specified by the generator on the containers. Categories include cultures and stocks, human pathological waste, human blood and blood products, sharps, animal waste, and other (specify characteristics);	8.4	37		
365-2.8(b)(2)	(2) a summary of all waste received that could not be managed at the facility and how it was handled;	8.4	37		
365-2.8(b)(3)	(3) for storage and transfer facilities, an identification of the treatment facility that received the RMW; and	8.4	37		
365-2.8(b)(4)	(4) for treatment facilities, report any issues that have been identified (e.g., failure to attain operating requirements, equipment failures, etc.), and any corrective action taken including additional biochallenge testing, management of spills, and special training for employees to resolve the issues.	N/A			