## Horizon Environmental Services

Horizon Envrionmental Services 590A Callery Road Cranberry Township, PA 15090 Phone 724-538-8522 Fax 716-299-2444

To: Mr. Gerard Burke NYSDEC Division of Environmental Remediation 12<sup>th</sup> Floor 625 Broadway Albany, NY 12233-7017 August 12, 2009 Alsy Manufacturing NYSDEC Contract No. D007501

01110 Work Plan

Horizon Environmental Service, Inc. (HES) submits the above referenced and attached submittal for the Former Alsy Manufacturing Project.

Brian Spangler, Project Manager, Horizon Environmental Services

Alsy ManufacturingWorkplan

Alsy Manufacturing Project

# Alsy Manufacturing Work Plan

## Mobilization and Set Up

Upon receiving a Notice to Proceed, Horizon will mobilize to perform the work. Mobilization will include the following major items and Site Facilities: two office trailers, tool storage container, electricity, excavator, fuel tank, silt fence, toilets, project sign, personal decontamination equipment and equipment decontamination pad and facilities, meteorological station, and rubbish collection service (dumpster), and temporary construction fence (orange) along the west and northern work zone boundaries. Horizon will install two temporary gates, one at the southern site entrance on one at the eastern site exit.

Following initial mobilization and set-up, Horizon will install erosion and sediment control measures, including silt fence, a sand bag diversion berm along the northwest corner, staked hay bales (as needed), and a filter berm of wood chips as shown on drawing C-102. Horizon will install catch basin inlet filters on the five parking lot catch basins as shown on detail B of drawing C-301.

## Excavation and Removal of Contaminated and Non-Contaminated Material

Horizon will excavate, handle and dispose of contaminated and non-contaminated materials (demolition debris and soils) per the contract specifications and as set out below.

## Test Pits and Temporary Sewer Bypass

The first stage of the excavation sequence will be to dig test pits along the southern end of the work site, along the building face. This test pit investigation will allow visual examination of building foundation and its condition for sheeting and shoring system design. The test pits will also allow the Engineer and Horizon to determine whether the temporary sewer bypass will be necessary. It is Horizons understanding that a temporary sewer bypass with grinder pump will be required if the building sewer system is determined to run through the excavation limits.

## Sheeting Shoring

Horizon currently intends to use Macro Enterprises for sheeting and shoring. After the test pit investigation of the building foundation system, the sheeting and shoring subcontractor's engineer will design and stamp a sheeting and shoring plan for the protection of structures and the maintenance of deep excavation sidewalls. It is anticipated that this system will consist of interlocking steel sheet piling, vibrated into place. If site conditions and structural considerations indicate, Macro may design a shoring system along the building wall consisting of permanent concrete pilings core-drilled, reinforced and poured along the build wall and outward to from side walls a suitable distance before transitioning into interlocking steel sheets. The northern end of the remedial excavation zone will be sheeted so as to form a ramp for equipment, personnel and materials access.

## Dewatering

It not anticipated that groundwater will be encountered in any of the project excavations. However, Horizon will have arrangements for the immediate deployment of three or four inch diesel-powered centrifugal pumps discharging storm water into an on-site frac tank(s). Liquids will be treated and disposed of off site treatment at an approved water treatment and disposal facility. Prior to transportation to the facility, liquids will be sampled and analyzed and properly characterized for treatment and disposal.

## Storm Water Management

Due to the sand and gravel soil conditions, it not anticipated that storm water will accumulate in the project excavations. However, Horizon will have arrangements for the immediate deployment of three or four inch diesel-powered centrifugal pumps discharging storm water into an on-site frac tank(s). Liquids will be treated and disposed of off site treatment at an approved water treatment and disposal facility. Prior to transportation to the facility, liquids will be sampled and analyzed and properly characterized for treatment and disposal.

Storm water management will also include sand bags to prevent run-off along the northwest site boundary, and storm drain inlet filters per Detail B of drawing C-301.

If site conditions and drainage indicate they are necessary, Horizon will install temporary under drains in the excavations, below the level of the pipes and structures.

## Non Contaminated Material (Demolition Debris)

Asphalt pavement as part of remedial and restoration (SSMS) construction will be trucked by approved transporters to an approved recycling facility. Asphalt will be saw-cut at the excavation boundaries established by survey and stakeout.

## **Contaminated Material**

Horizon will sample and analyze waters and sludge from the dry wells in oder to characterize them for proper offsite treatment and disposal. Waters will be evacuated by pump and vacuum truck and transported to an approved treatment and disposal facility. It is anticipated that solids and sludges will be evacuated form the dry wells using a Vactor Vacuum truck. Confined space entry will only be used if necessary to remove and dispose of heavy sludges.

Following removal of liquids and sludges from the dry wells, the engineered and approved sheeting and shoring system will be installed with vibration monitoring. After the sheeting and shoring is installed, Horizon will begin excavation of contaminated soils and drywell structures. Excavation will proceed from the ramp to be established at the northern end of the excavation zone. As the three drywells identified for demolition are encountered, they will be demolished by excavator mounted breaker and the pieces sized 2' minus for acceptance by Clean Earth.

Soils, dry-well liquids and sludges and structures below the asphalt will be segregated form non-contaminated material and handled as contaminated material. Contaminated materials will be sampled and analyzed for proper characterization and disposal pursuant to facility characterization requirements. It is anticipated that the contaminated non-hazardous soils and demolition debris will be disposed of through Clean Earth, Inc. Please see attached permits.

Suspected hazardous soils and materials will be segregated from non-hazardous materials and then sampled and analyzed for proper characterization and disposal. Horizon anticipates that hazardous soils will be disposed of through Envirite, Inc. of York Pennsylvania. Permit to be supplied.

Trucking of Hazardous and non-hazardous materials will be by approved transporters. As of now, the only transporter for non-hazardous contaminated materials is the Fusella Group, Inc. Please see attached permit. Hazardous materials transporter is anticipated to be US Bulk, Inc. (permit to be supplied).

## Decontamination

All trucks and equipment will be decontaminated by scraping, brushing, and washing (if conditions and operations require). It is anticipated that hauling trucks will be loaded while on a loading pad constructed of 30 mil rubber membrane placed over undisturbed asphalt and covered with a wear layer of geotextile fabric, to be replaced as necessary. All trucks and equipment will be decontaminated prior to leaving the loading pad and no material shall be permitted to adhere to the tires or any part of the truck before leaving the pad. Personnel decontamination will be accomplished in the contamination reduction zone by means of clean water brushes and a boot was station.

## **Backfill**

Following excavation and disposal of the contaminated and non-contaminated materials and structures, and excavation to the pre-defined remediation limits,

post-excavation sampling, and approval by the Engineer, backfill will be placed and compacted in the excavations.

Backfill will be sampled, analyzed, submitted and approved prior to backfill activities. Backfill around manholes and sewer piping and bedding will be carried and uniformly placed around structures for each lift to prevent wedging and movement. Backfill within five feet of the surface will be compacted to 95% of maximum dry density around foundations and 90% of maximum dry density for pipe bedding. Backfill greater than 5 feet from ground surface may be compacted by kneading action using excavator bucket. Compacted lifts will be no greater than eight inches. Nuclear method will be used to measure backfill compaction.

Interlocking steel sheeting and shoring will be removed in accordance with the sheeting and shoring plans and design approved by the sheeting and shoring engineer, and as approved by the site Engineer.

## Site Restoration

Horizon will a new subsurface stormwater management system (SSMS) manufactured by Strom Tech per the specifications and manufacturers instructions. The stormwater management system will include piping, manholes, catchbasin and Storm Tech system, as specified. Following the installation of SSMS, Horizon's paving subcontractor will install the asphalt per the specifications and paint parking stripes. Seeding, fertilizer and mulch will also be placed in any disturbed grass areas.

## Sub-Surface Stormwater Management System

Horizon will excavate the areas for the installation of SSMS 1A, 1B and 2 (as directed) to the required depths. Approved two inch crushed stone will be placed and compacted as a foundation stone to a minimum of six inches per Detail K of Drawing C-302.

The Storm Tech SSMS will be delivered and inspected for defects prior to installation. Horizon will install the chambers, endcaps, and associated parts and portals per the Construction Drawings and the manufacturer's installation instructions. Type 1 and Type 2 geotextile will be installed per Detail K of Drawing C-302. During the construction of the SSMS, Horizon will facilitate inspections by the Engineer and the Town of Oyster Bay. Horizon will provide a schedule of SSMS activities in advance of construction to help the timing and access or inspections.

Following installation of the SSMS, two inch crushed stone will be placed and compacted around and over the installed chambers in accordance with the manufacturer's recommendations and the contract documents. No trucks or

equipment will be permitted on top of the chambers until minimum compacted cover is established per the manufacturer's recommendations.

The SSMS will not be operated until all manholes, catch basins and pipes and inspection ports are installed, clean of debris and sediment and approval of the Engineer is obtained.

## Traffic Control

Traffic will be limited to one way entering from the breezeway at the southern end of the site and exiting through the egress route at the northeast corner of the site. Temporary swing gates will be installed at the entrance and exit and will be kept closed except during traffic flow. Sight lines out onto Duffy Avenue are clear in both directions and it is not anticipated that a flagman will be required. However, Horizon will use a flagman if conditions and traffic warrant.

## Site Access Control

Horizon will control access to the site at all times during construction. During working hours, all visitors and workers will have to sign in on the daily Site Security Log. After hours site access control will be accomplished by the use of orange security fence around the perimeter of the site, and by swing gates installed at the entrance and exit points.

P.4



# State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Solid and Hazardous Waste Program P.O. Box 414 401 East State Street Trenton, New Jersey 08625-0414 Telephone: (609) 984-5950 Telecopier: (609) 633-9839 http://www.state.nj.us/dep/dshw LISA P. JACKSON Acting Commissioner

#### CLOSURE PLAN APPROVAL

Under the provisions of N.J.S.A. 13:1E-1 et seq., known as the Solid Waste Management Act, this Solid Waste Closure Plan Approval is hereby issued to:

#### SLRD COMPANY MULLICA HILL, LLC (ALHERN, INC. T/A HENRY HARRIS SANITARY LANDFILL)

FACILITY TYPE:	Closed Sanitary Landfill
MASTER SITE ID NUMBER:	00063769
PREFERRED ID NUMBER:	132181
PERMIT NUMBER:	LCC050001
BLOCK AND LOT NUMBERS:	Block 57, Lots 7, 9, 12, 12.01 and 13
MUNICIPALITY/COUNTY:	Harrison Township/Gloucester County
CLOSURE YEAR:	2006
POST-CLOSURE PERIOD:	30 Years

This Approval is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This Approval shall not prejudice any claim the State may have to riparian land, nor does it permit the registrant to fill or alter or allow to be filled or altered, in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this state without prior acquisition of the necessary grants, permits or approvals from the Department of Environmental Protection.

Pat

Issuance Date: FEB 0 7 2005

Frank Coolick Administrator Solid and Hazardous Waste Program

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JON S. CORZINE Governor JON S. CORZINE

Governor

# To: 12157341416

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State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLD AND HAZARDOUS WASTE MANAGEMENT PROGRAM P.O. BOX 414 401 E. STATE STREET TRENTON, NEW JERSEY 08625-0414 TELEPHONE: 609-633-1418 TELECOPER: 609-633-9839 http://www.state.ni.us/dep/dahw

LISA P. JACKSC Commissioner

July 19, 2006

Brian Horne SLRD Company – Mullica Hill, LLC 283 Mullica Hill Road Mullica Hill, NJ 08062

Re: Material Acceptance Protocol & Criteria Henry Harris SLF, Facility No 0808A Harrison Township, Gloucester County Block 57: Lots: 7,9,12,12.01 & 13 PI-G000004413, RPC 06001

Dear Mr. Horne:

This is in response to your letter dated March 16, 2006 to Mr. Timothy Bartle and the accompanying document entitled "Protocol For Review, Certification And Acceptance Of Off-Site Recyclable Fill Materials" dated March 8, 2006.

Your submission proposed an acceptance protocol, alternative fill acceptance criteria (AFAC), final grading plan and Health and Safety Plan (HASP). This letter will respond in depth to the acceptance protocol and AFAC proposals. Comments regarding the final grading plan will be formalized after the Remedial Action Workplan is submitted. The HASP is under review – comments will be forthcoming in the next few weeks.

Regarding the Department's review of your acceptance protocol proposal, revisions are to be made within the Material Acceptance Protocol subsection 4, Type and Frequency of Testing as follows: subparagraph

a. <u>Clean Fill</u>: Add the following wording to the end of the sentence: "and a sufficient level of documentation and sampling results shall be available for review from the source owner if requested or a PA (Preliminary Assessment) level of material assessment shall be available for review if requested."

b. <u>Recycled Asphalt and Recycled Masonry</u>: Add the following wording to the end of the 3<sup>rd</sup> sentence: "and a sufficient level of documentation and sampling results shall be available for review from the source owner if requested or a PA (Preliminary Assessment) level of material assessment shall be available for review if requested."

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o. <u>Construction Fill and Other Fill Material</u>: Change "Priority Pollutants" to "Target Compound List plus 30/Target Analyte List (TCL+30/TAL", change "2,000" to "1,000", change "500" to "200" and change "10,000" to "2,500" in all instances.

d. <u>Fill From Recycling Facilities</u>: Remove the "and" from between "Class B" and "Recycling". The remainder of this section may be changed in the future because the Department is currently examining sampling for Class B Recycling Facilities.

e. Unprocessed and Amended Dredged Material: No changes required.

f. <u>Coal Combustion Byproducts and Off-Spec Coker Materials</u>: Change "25,000" to "5,000" and "5,000" to "1,000". The Department will consider raising these figures if it can be shown that the source is relatively uniform over time. Change "Priority Pollutants" to "Target Compound List plus 30/Target Analyze List (TCL+30/TAL".

g. <u>Water Treatment Plant Residuals</u>: Change "Priority Pollutants" to "Target Compound List plus 30/Target Analyte List (TCL+30/TAL)".

h. <u>Construction and Demolition Screenings</u>: Change "Priority Pollutants" to "Target Compound List plus 30/Target Analyte List (TCL+30/TAL", change "2,000" to "1,000" and change "500" to "200".

Final subparagraph of this section: Change "NJDEP regulations" to "NJDEP Classification Guidance Document".

Revisions are to be made within the Material Acceptance Protocol subsection 5, Sampling Methodology as follows: Change "May 1992" to "August 2005".

In general, replace all instances of the word "grab" with the word "discrete" throughout the referenced document.

Regarding the Department's review of your AFAC proposal, revisions are to be made within Table 1 – Proposed Alternative Fill Acceptance Criteria as noted in this tentative list of contaminants and levels. The "nc" means no change. Units are in parts per million (ppm) on a "total" SW-846 basis. Note that the Department may require SPLP EPA Method 1312 to verify contaminant insolubility. This will be added to the modified Closure Plan Approval.

Contaminant Proposed AFAC		Change To
1. Antimony	680	450
2. Arsenio	100	nc
3. Benzo (b) fluoranthene	50	nc
4. Banzo (a) anthracene	60	nc
5. Benzo (a) pyrene (BaP)	9.9	nc
6. Benzo (k) fluoranthene	60	nc
7. Beryllium	10	20
8. Bis (2-chlorocthyl) ether	30	5
9. Cadmium	200	nc

Page 2 of 4

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10. Copper 4000 nc 11. Dibenz (a,h) anthracene 9.9 nc 12. 3,3'- Dichlorobenzidine 10 nc 13. Dinitrotoluene(2,4/2,6 - mixture) 20 10 14. Heptachlor 6.5 3 15. Hexachlorobenzene 20 5 16. Hexachlorobutadiene 105 50 17. Indeno (1,2,3-cd) pyrene 60 nc 18. Lend 1,200 1,000 19. N-Nitrosodi-n-propylamine 6.6 2 20. PCBs 20 10 21.Pentachlorophenol 110 50 22. Thallium 10 nc 23. Vanadium 21,300 15,000 24. Zinc 3.000 nc

The "Protocol For Review, Certification And Acceptance Of Off-Site Recyclable Materials" dated March 8, 2006 shall be amended to reflect the changes contained herein and resubmitted to the Department within thirty (30) days of the date of this letter. Upon receipt of the amended protocol, the Department will issue a modified Closure Plan Approval that will make these and other necessary updates in view of recent actions on the part of SLRD. No materials may be accepted at the site until such time as the Approval is issued. Additionally, prior to acceptance of any material on-site, the Closure Plan Financial issues regarding the escrow amounts (on a per ton basis) shall be reviewed and approved by the Department.

As a reminder all exposed fill material above the RDCSCC levels shall be kept wet at all times. Fill material for the test area shall be limited to NRDCSCC levels of contamination with the exception of Arsenic. Arsenic contaminated soil may be accepted at levels identified in the table revisions above. These requirements will be included in the modified Closure Plan Approval.

After issuance of the modified Closure Plan Approval the Department will reserve the right to grant supplemental approvals on a case by case basis. The Department may require modification of the conditions of the AFAC and/or in the material acceptance protocol in the future as conditions warrant. Should you have any questions regarding this letter please contact Mr. Tim Disbrow of my staff at 609-984-6664 or by email at tim.disbrow@dcp.state.nj.us.

incerely Robert M. Confer Chief Burcau of Solid and Hazardous Waste Permitting - South

NJEMS Document: "Alternate Acceptance Criteria"

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P.5/6

C: Timothy Bartle, Section Chief, BSHWPS

Greg Giles, BGWPA David Doyle, BEERA

Angelo Fatiga, Pennoni Associates (515 Grove Street, Suite 2C, Haddon Heights, NJ 08035) Rai Belonzi, Chief, BCE

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Pat Ferraro, Supervisor, BCE-Southern Region

Tracy Nutt, Harrison Township Municipal Clerk

David Shields, Solid Waste Coordinator, Gloucester County Improvement Authority Donald Benedik, Health Officer, Gloucester County Department of Health Lisa Marina, Director, Gloucester County Department of Business and Economic Development

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DIVISION OF SOLID & HAZARDOUS MATERIALS

# PART 364 WASTE TRANSPORTER PERMIT NO. <u>NJ-684</u>

Pursuant to Article 27. Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

#### PERMIT ISSUED TO:

CONTACT NAME.

TELEPHONE NO.

COUNTY:

٠,

FUSELLA GROUP, LLC 40 DEFOREST AVE. EAST HANOVER, NJ 07936 PERMIT TYPE:

□ NEW □ RENEWAL ■ MODIF:CATION

EFFECTIVE DATE: 10/01/2008 EXPIRATION DATE: 09/01/2009 US EPAID NUMBER:

#### AUTHORIZED WASTE TYPES BY DESTINATION FACILITY:

VINCENT FUSELLA

OUT OF STATE

(973)884-0255

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed

Destination Facility	Location	Waste Type(s)
BAYSHORE RECYCLING	KEASBEY . NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soif
BELLMAWR WATERFRONT DEVELOPMENT	BELLMAWR NJ	Non-Hazardous Industrial/Comme-cial Petroleum Contaminated Soil
CASIE ECOLOGY OIL SALVAGE INC	VINELAND , NJ	Non-Hazardous Industrial/Commercial Petroleum Conteminated Soil
CLEAN EARTH OF CARTERET	CARTERET . NJ	Non-Hazardous Industrial/Commercial
CLEAN EARTH OF MARYLAND	HAGERSTOWN , MD	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil
CLEAN EARTH OF NEW CASTLE, INC	NEW CASTLE , DE	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil Studge from Sawage or Water Supply Treatment Plant
CLEAN EARTH OF PHILADELPHIA	PHILADELPHIA . PA	Non-Hazardous Industrial/Commercial
CLEAN EARTH OF SOUTHEASTERN PA.,	MORRISVILLE, PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil
CLEAN EARTH OF WEST VIRGINIA	FRIENDLY , WV	Non-Mazardous Industrial/Commercial Petroleum Contaminated Soit
COPLAY AGGREGATES	WHITEHALL , PA	Non-Hazaldous Industriai/Commercial Puljoisum Contaminated Soli
OURAPORT MARINE & RAIL	BAYONNE , NJ	Non-Hazardous Industrial/Commorcial

\*\*\* AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page)

NOTE: By acceptance of this permit, the permittee agrees that the permittis contingent upon strict compliance with the Environmental Conservation Law, all applicable regulations, and the General Conditions printed on the back of this page.

alm G. Voon

ADDRESS:

1.1

New York State Department of Environmental Conservation Division of Solid & Hazardous Materials - Waste Transporter Program 625 Broadway, 9th Floor Albany, NY 12233-7253

AUTHORIZED SIGNATURE

PAGE 1 OF 3

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Date

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#### DIVISION OF SOLID & HAZARUOUS MATERIALS

# PART 364 WASTE TRANSPORTER PERMIT NO. NJ-684

Pursuant to Amide 27 Titles 3 and 15 of the Environmental Conservation Law and C NYCRR 364

## PERMIT ISSUED TO:

FUSELLA GROUP, LLC 40 DEFOREST AVE. EAST HANOVER, NJ 07936 □ NEW □ RENEWAL ■ MODIFICATION

PERMIT TYPE:

CONTACT NAME COUNTY: TELEPHONE NO.	VINCENT FUSELLA OUT OF STATE (973)884-0255	EFFECTIVE DATE EXPIRATION DATE. US EPAID NUMBER:	10/01/2008 09/01/2009
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#### AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Fricility listed :

Destination Facility	Location	Wasie Typo(s)	
DURAPORT MARINE & RAIL	BAYONNE, NJ	Petroleum Contaminated Soil	
HAZLETON CREEK PROPERTIES.LLC	HAZLETON , PA	Non-Hazardous Industrial/Commercial Potrolaum Contaminated Soil	
MID ATLANTIC RECYCLING TECHNOLOGIES	VINELANO NJ	Non-Hazardous Industrial/Commercial Potroleum Contaminated Solf	
MULLICA HILL	MULLICA HILL, NJ	Non-Hazardous industrial/Common al Petroleum Contaminated Soit	
PURE SOIL YECHNOLOGIES	JACKSON NJ	Petroleum Contaminated Soll	

PAGE 2 OF 3

## **PART 364** WASTE TRANSPORTER PERMIT NO. NJ-684

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

#### PERMIT ISSUED TO:

FUSELLA GROUP, LLC 40 DEFOREST AVE. EAST HANOVER, NJ 07936 PERMIT TYPE:

D NEW D RENEWAL MODIFICATION

CONTACT NAME	VINCENT FUSELLA
COUNTY:	OUT OF STATE
TELEPHONE NO	(973)884-0255

EFFECTIVE DATE EXPIRATION DATI: US EPAID NUMBER:

10/01/2008 09/01/2009

#### AUTHORIZED VEHICLES

The Parmittee is Authorized to Operate the Following Vehicles to Transport Waste.

(Vehicles enclosed in <>'s are authorized to haul Residential Raw Sewage and/or Septage only)

29 (Twenty Nine) Permitted Vehicle(s)

NJ AJ560P NJ AJ651P NJ AJ552P NJ AJ808S NJ AK107M NJ AK108M NJ AK 196P NJ AK275A NJ AK301D NJ AK302D NJ AK545K NJ AK546K NJ AK627W NJ AK628W NJ AK992V NJ AL156P NJ AL157P NJ AL158P NJ AL159P NJ AL 199G NJ AL440W NJ AL441W NJ AL486N NJ AL601J NJ AL608 NJ AL777F NJ AL781F NJ AL990U NJ TEV26E End of List

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