Chemical Pollution Resources, Inc.

Project Closure Report

Project Name: Astro Electroplating, Inc.

Focus Area: Ou-1, Ou2A

Product/Process: Groundwater IRM

Prepared By

Document Owner(s)	Project/Organization Role
Pat Enochs	Chemical Pollution Resources, Inc.

TABLE OF CONTENTS

1 Introduction

Project Closure Report Purpose

The purpose of this document should document the work as specified in the Record of Decision 1-52-036. The document is believed to contain all necessary information required as specified in Section 5 of The New York State Guidance document DER-10

2 PROJECT CLOSURE REPORT GOALS

Project Closure Report Goals

This report is intended to provikde the NYSDEC with the information and documents regarding the IRM and Record of Decision (1-52-036) The information contained in this report includes:

- A Description of the Remedy as constructed .
- Summary of all Remedial Work completed.
- Description of the changes to the plan and an explanation to inact said revisions
- Description of the significant problems encountered during the Construction and the resolutions
- Quantities concentrations of contaminants removed
- List of waste streams quantity of materials disposed and designated facility
- List of Objectives applied to the Remedial Action
- Table identifying pre and post remedial data
- As built of installed liner, piping and well pump
- Diagram of uncovered arfeas of concern which may contribute to contamination.

3 PROJECT CLOSURE REPORT SUMMARY

3.1 Project Background Overview

Project Background Overview

The Record of Decision for the site (1-52-036) identifies two separate issues related to the contamination. Soil Remediation is identified as Operable Unit 1. The preferred approach to remediate

the site was capping the existing source of contamination. Although this method only provides confinement and containment, the ROD also requires remedial efforts on the groundwater of the upper glacial aquifer which has been contaminated. This will be defined as Operable Unit 2. This document concentrates on the remedial tasks performed on the capping at this site.

As per Remedial Investigation and Feasibility Study (RIFS) and the order of consent (OOC) signed by the operator of Astro Electroplating Inc, a 60 mil High density Poly ethylene (HDPE) fabric was to be placed over an area thirty (30) feet by one hundred ten (110) feet on the eastern portion of the property (Figure 5), where the impacted dry wells once stood.

3.2 Summary of Remedial Actions

Remedial Activity Description Liner

Project Details OU 1

On or about November 14, 2006 Environmental Contracting Corp. mobilized to the site to install the cap over the area of concern. Initially the area was marked out by both private and public utility locators. The area of concern was saw cut and asphalt removed. The top asphalt layer was containerized and sent to an asphalt recycling plant. Once the asphalt was removed the area was excavated down to an elevation of two feet six inches below grade. On or about December 06, 2006, the area was prepared as
in this report. The area was leveled and compacted. Geotextile fabric (AASHTO M88 CL II) was installed at 2.5 fbgs. The southwest portion was graded up to accommodate for the sewer pipe.

Once the geotextile PVC fabric was installed, a four inch layer of clean sand was placed on top and compacted. Studs were installed along the eastern foundation wall in order to secure the cap fabric. The PVC fabric was spread out and inspected for tears, rips and punctures. The cap was placed into position and secured with stainless steel washers and bolts as specified. The north east and south edges of the cap were bent along the j channels as identified on the original plans, and they were covered with four inches of fine sand to hold it in place. In addition four inches of fine clean sand was also spread on top of the cap. The fill was compacted every six inch interval. Finally approximately three inches of RCA blend was installed and compacted.

The area was blocked off from traffic and allowed to settle. In March, 2007, the area was asphalted. At that time approximately one inch of RCA blend was removed by hand. Two inches of NYSDOT Type 6F asphalt were installed and sealed.

3.4 Description of Problems Identified during Liner Installation

Liner Install Issues

During the excavation, an open (and unexpected) 10 ft dia x 12 ft deep dry well (LP1) was found (refer to figure 1). An industrial discharge pipe (P1) was also found at 2 fbgs. P1 originated from the eastern wall and was pitched to a ware (W) at 3 fbgs. The ware was also connected to a sewer line (S1) at 6 fbgs. This installation will be used during the pilot plant OU2 to discharge treated wastewater to the sewer district.

The exposed drywell was sampled on November 14, 2006. The sample was analyzed for Suffolk County Priority Pollutants. Specifically, the parameters included volatile organics, semi volatile organics and metals. The sample indicated the dry well had been impacted to similar contaminants which caused the initial source from Astro Electroplating. The Chemicals of Concern (COC) were copper, chrome and nickel. The drywell was cleaned to a depth of approximately twenty two feet. The soils were removed and stockpiled on an impermeable layer. This soil together with that excavated from a 2ft wide trench dug alongside the eastern wall were separated and handled as hazardous waste. A total of nineteen cubic yards of soil was removed from the dry well (See attached manifest). The depth was originally eighteen feet below grade. After source removal the depth was approximately twenty one feet below grade. An endpoint sample was taken. The end point sample was analyzed specifically for hexavalent chromium. Analytical results showed that the Cr(VI) was below one milligram per kilogram (1 mg/kg). Analytical results are enclosed in Attachment 3. The dry well was filled using clean fill (from segregated, onsite clean fill, as per attached results.)

Subsequent to the drywell abandonments (LP1) a 1.5” PVC pipe was installed in the area to connect the discharge of the well pump into the wastewater treatment area in the building.

The excavation also exposed ancillary piping to and from LP1. Pipe P2 discharged from the facility and entered the western portion of the drywell structure. P3 pipe was also originating out of the facility. This piping ran east and then south past the point of the capping excavation. Further investigation and excavation revealed another pipe P4 originating from the facility and connected to the P3. P3was traced to an area approximately ten feet where it ended in the soil. There was an additional pipe P5 connected to the line which ran east. P5 was traced to an abandoned dry well DW2 approximately thirty feet east of the building. Figure 1, enclosed, indicates these found structures. The abandoned dry well DW2 showed signs of visual discoloration and may need to be addressed as a potential source of contamination in the future.

All pipes discovered were removed and the areas potentially impacted were excavated and stockpiled on an impervious fabric, awaiting proper disposal.

3.5 OU 2A

Summary of IRM Groundwater Pump Installation

On or about July 18, 2005 installation of a four inch well was placed on Town of Babylon property near the corner of Central Ave (running east / west and Engineers Lane (running north / south) The well was originally designed to be placed on private property at 8 Engineers Lane in Farmingdale, NY. Access was difficult to obtain from the owners of this property. Since the original position of the well was approximately ten feet south of the town of Babylon right of way it was decided to place the well on public property. A permit was granted by the Town of Babylon department of Public works. In order to place the well on the right of way several issues were to be addressed. One main issue was the location of overhead power lines. The Local Electric Provider was contracted to re-route electric around this area. This would allow a Drill rig to place the well on the easement approximately ten feet in width. The Drill Installer was Land Air Water Environmental. The drill rig encountered no refusal. The original drill boring log indicated approximately one foot of top soil. From one foot to thirty five feet was moist granular sand and gravel. Groundwater was encountered at approximately thirty seven feet. Drilling continued to a depth of forty five feet below grade. Pvc screening was placed in the well at approximately forty four feet to 32 feet below grade. The remainder of the well consisted of 4 inch pvc casing. The well was supported by pumping bentonite around the casing. A cylindrical cement shroud was placed on top of the well and secured with a poured concrete slab. A steel well cover was also installed. After the installation, the well was developed pumping approximately one hundred sixty gallons of water from the well.

On July 19, The well was purged extracting approximately 15 gallons of water from the well. A sample was taken and submitted to Long Island Analytical Laboratory the analysis report is attached (appendix___)

On or about November 19, 2007 the piping for the IRM was installed by Environmental Contracting Services of Patchogue, NY. The piping was installed from the well mentioned above to the Waste Water Treatment facility located at the now unoccupied Astro facility. The piping was installed in a trench approximately four feet below grade along the Town of Babylon right away adjacent to Central ave. The pipe runs west to the easement for 170 central Ave and turns at 90 degrees. The piping then runs north approximately 350 feet and is directed west at 90 degrees. The piping runs approximately 75 feet west and intersects piping previously installed under the pvc liner. The piping and pump along with the wiring was installed according to the specifications identified by Moraghen Engineering (appendix___)

3.6 Discription of Problems of Implementation of OU2A

Problems regarding OU2A

Delays of installation of the piping were caused due to weather, and obtaining the proper town permits for excavation on the Babylon right of way. In addition to these logistical issues there was several barriers regarding the SCDPW allowing the permit as agreed in the original negotiations. After the installation of the piping a P.E. was contracted to obtain the Discharge Permit and provide the Suffolk County Department of Public Works with the data requested. After review there was another delay regarding the witnessing of the Waste Treatment System in operation. The Groundwater at the time did not exceed the parameters of the POTW and no further treatment was necessary. Pat Enochs argued that the system at that time had the capacity to hold two days worth of storage and if the effluent exceeded discharge parameters the treatment system would need approximately 3000 gallons in order to operate properly. It was unnecessary to operate the system based on the low level of contamination. In September of 2009 the Discharge Permit was granted for six months.

The IRM pump system began operation on September 14, 2009. The self monitoring required by the SCDPW permit is attached in Appendix ___

4 Site Management

4.1 Site Management OU 1

Operations and Maintenance OU1

The operations and maintenance of this unit include administrative and physical inspections. The Record of decision also requires the liner be replaced every ten years until the contamination of the area meets acceptable levels based on NYSDEC guidelines.

4.2 Site management OU2A

Operations and Maintenance OU2A

- The Operations and Maintenance of OU2A is described in the SCDPW Permit 507-711-00001B. This permit requires self monitoring of Chromium, Copper, and Nickel along with Meter Readings of the amount discharged. Prior to the renewal the permit also required an operator onsite during operation. The Record of Decision required operation of this system while the facility was processing. In 2005 the Operator was asked to leave the facility by the property owner. Since that time operations of the facility have ceased. Recent correspondence from the Department of Environmental Conservation has provided a directive to operate the system for at a minimum of five days a week and eight hours per day. This correspondence has been discussed with Astro Electroplating and agreed to operate the system under these conditions. We Anticipate

5 Certification

5.1 Certification

P.E. Certification

I, Ariel Czemerinski, am currently a registered professional engineer licensed by the State of New York. I have primary direct responsibility for implementation of the remedial program contained in the Record of Decision 1-52-036 for the Former Astro Electroplating, Inc. Site, located at 170 Central Avenue, Farmingdale, NY 11735.

I certify that the Operational Unit#1 Status Report presented in this report accurately depicts the activities so far conducted.

I certify that when this report makes reference to the ROD, that it refers to the Record of Decision 1-52-036 prepared and approved by NYSDEC in March 2001.

I certify that, based on the documentation and photographs provided to me relating to the remedial activities at the subject site, that this report is a true and accurate depiction of the activities so conducted.

6 PROJECT CLOSURE REPORT APPROVALS

Prepared By Patrick Enochs CHMM / CET
([**Job Title**])

Approved By _____
([**Job Title**])

_____
([**Job Title**])

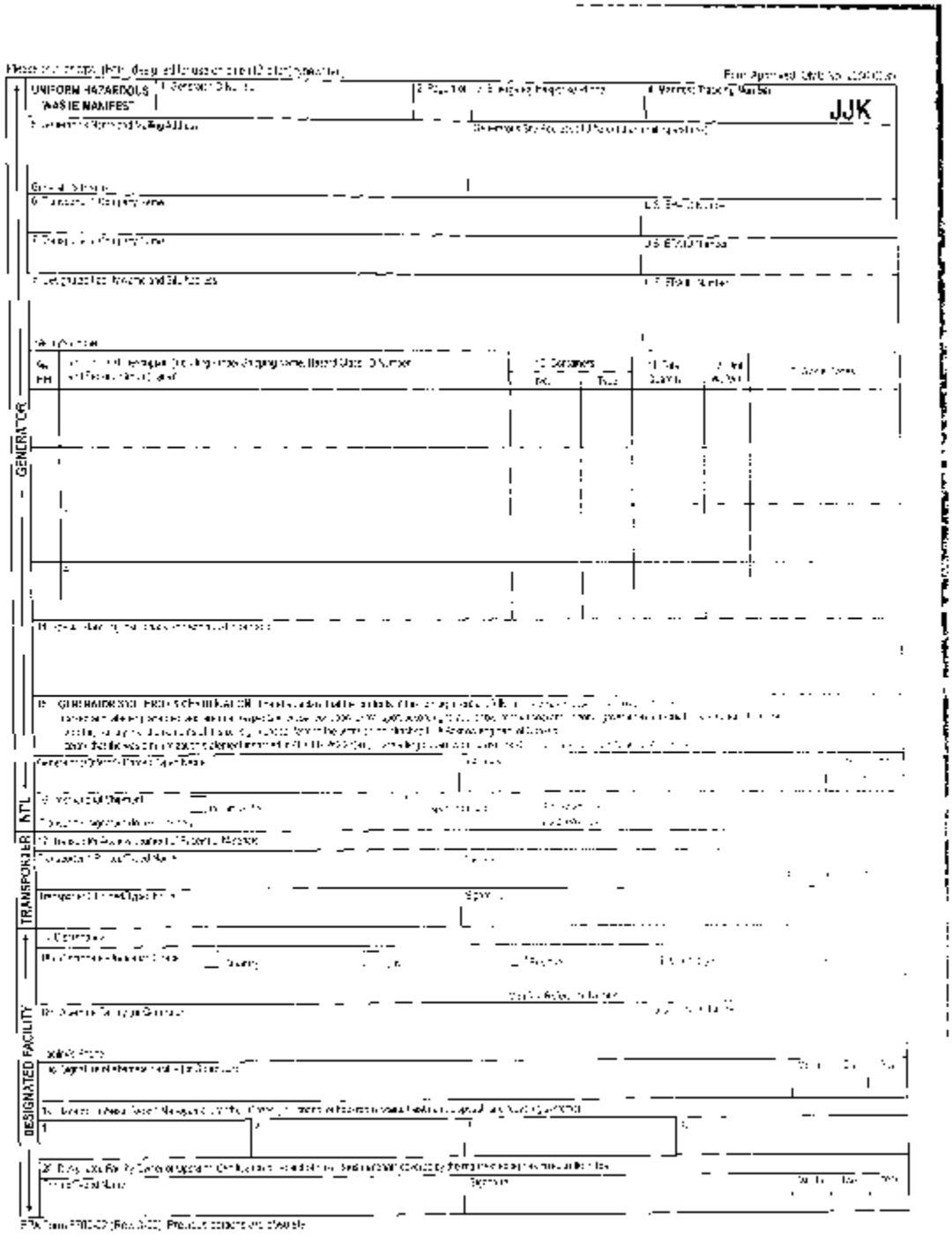
_____
([**Job Title**])

Approval Date _____

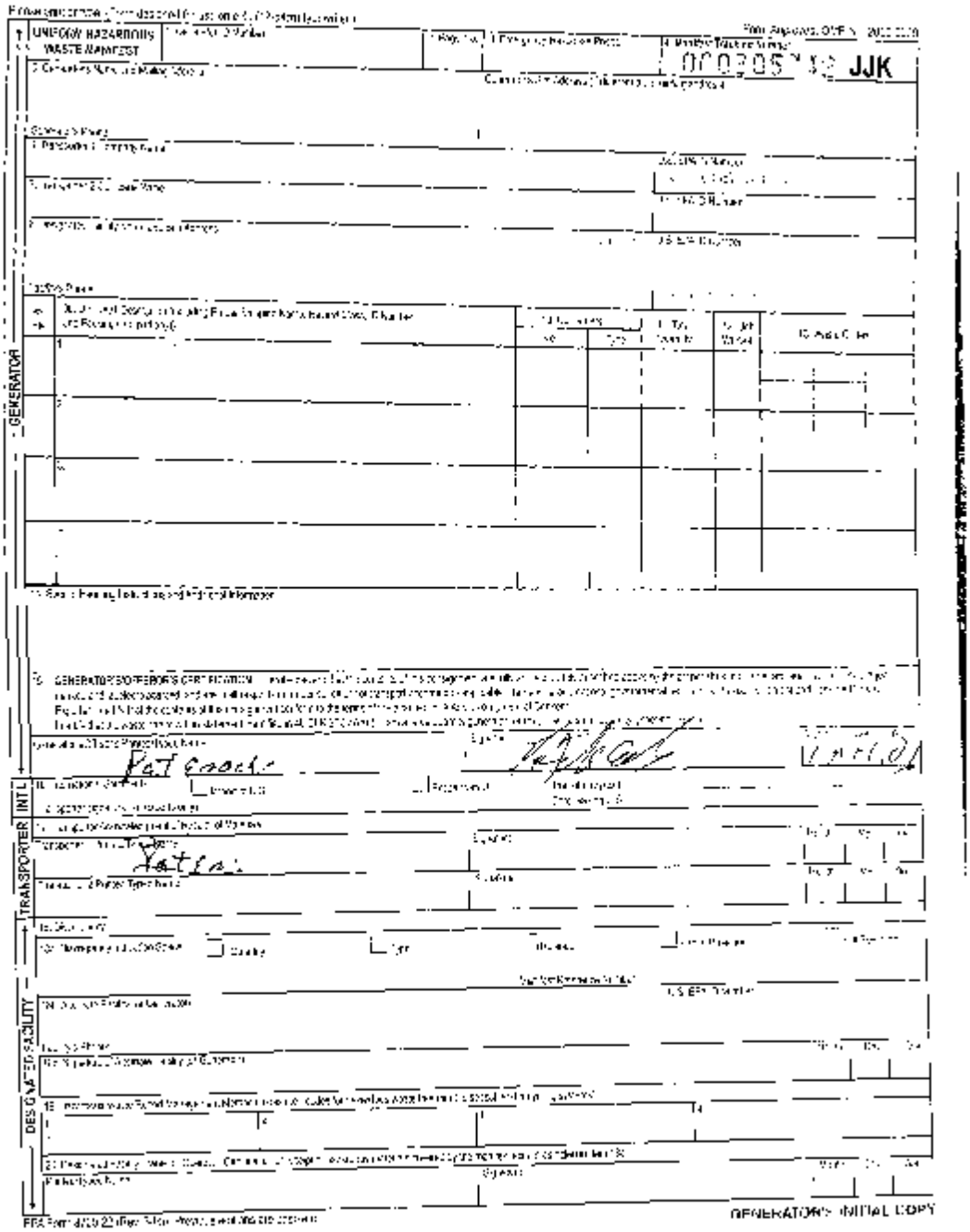
7 APPENDICES

7.1 Waste Removal OU1

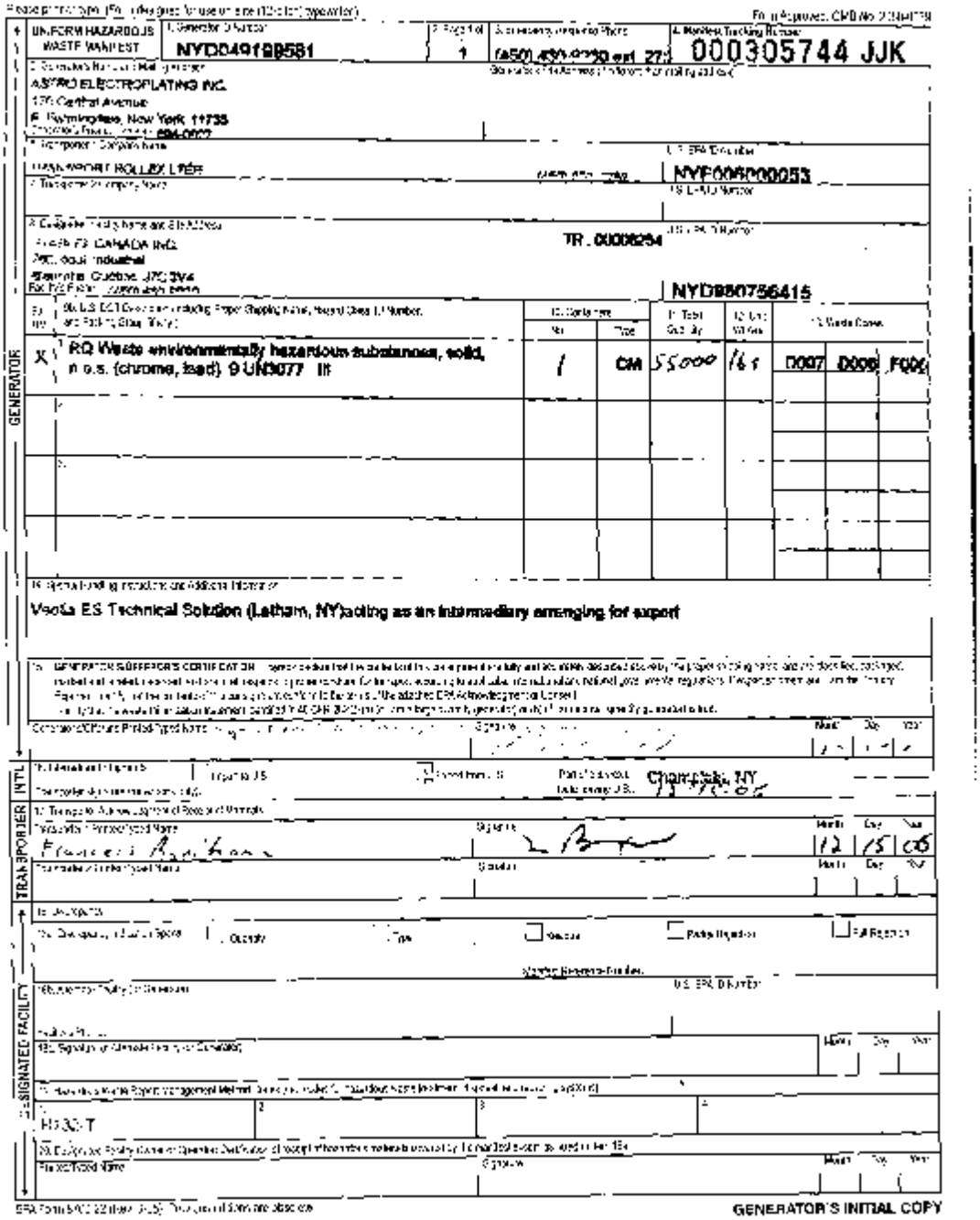
7.2 Waste Removal



xeceipt 1, Page 1 of 2



xeroipr 1, image 1 of 2



UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD049128581

2. Page 1 of 1

4. Manifest Tracking Number: 000305744 JJK

5. Generator's Name and Mailing Address:
ASTRO ELECTROPLATING INC.
175 Central Avenue
E. Farmingdale, New York 11735

6. Transporter 1 Company Name: ROLLEX LTEE

U.S. EPA ID Number: NYF005000053

7. Transporter 2 Company Name: TR. 0000294

8. Designated Facility Name and Site Address:
Veolia ES CANADA Inc.
Ste. Catherine Industrial
Beauharnois Québec J6C 3V4

NYD980756415

9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers: No. | Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes

X | RQ Waste environmentally hazardous substances, solid, n.o.s. (chrome, lead) 9 UN3077 III | 1 | CM | 55000 | lbs | D007 D009 F006

14. Special Handling Instructions and Additional Information:
Veolia ES Technical Solution (Latham, NY)acting as an intermediary arranging for export

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Rollins | Signature | Month: 12 | Day: 15 | Year: 05

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy

18a. Discrepancy Indication Space | Quantity | Type | Residue | Partial Rejection | Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

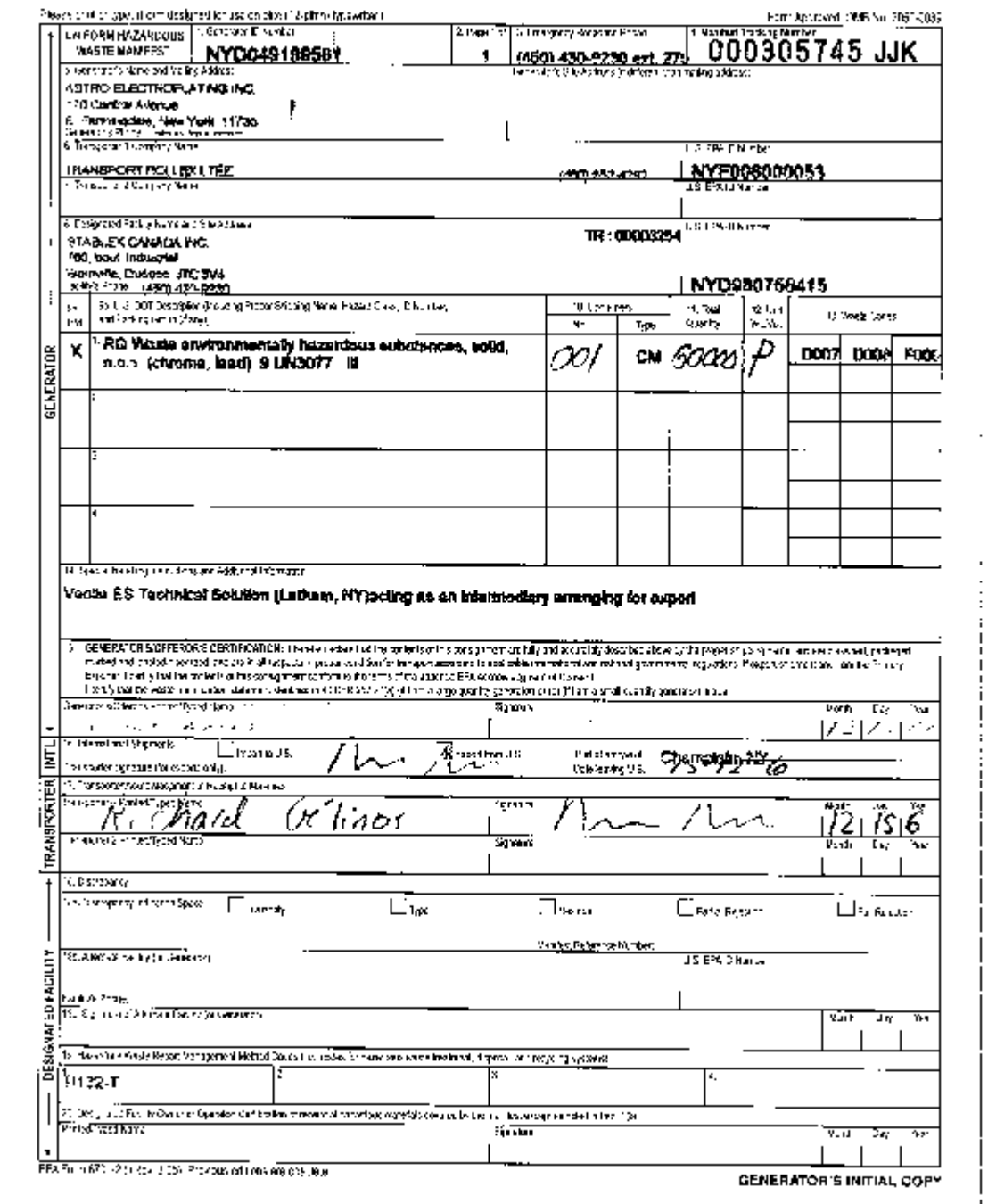
1. H130T | 2. | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-5) Previous editions are obsolete. GENERATOR'S INITIAL COPY

Receipt 1, Image 1 of 2



UNIFORM HAZARDOUS WASTE MANIFEST
1. Generator ID Number: NYD049186581
2. Page 1 of 1
3. Emergency Response Phone: (450) 430-8230 ext. 275
4. Manifest Tracking Number: 000305745 JJK

5. Generator's Name and Mailing Address:
ASTRO ELECTROPLATING INC.
770 Cantiague Avenue
E. Farmingdale, New York 11735

6. Transporter 1 Company Name: TRANSPORT POLLUTEC
7. US EPA ID Number: NYF006000053

8. Designated Facility Name and Site Address: STABLEX CANADA INC.
660, boul. Industriel
Blainville, Québec J7C 3V4
TR : 00003254
10. US EPA ID Number: NYD980766415

a. HM	b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ Waste environmentally hazardous substances, solid, n.o.s. (chroma, lead) 9 UN3077 III	001 CM 6000	P	D007 D008 F006
	2.			
	3.			
	4.			

14. Special Handling Instructions and Additional Information
Veolia ES Technical Solution (Latham, NY)acting as an intermediary arranging for export

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

16. International Shipments: Import to U.S. | Export from U.S. | Port of entry/exit: Champlain, NY | Date leaving U.S.: 12/15/10

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Richard DeMinor | Signature | Month: 12 | Day: 15 | Year: 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy

18a. Discrepancy Indication Space: Quantity | Type | Residue | Partial Rejection | Full Rejection

18b. Alternate Facility (or Generator) | Manifest Reference Number | US EPA ID Number

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132-T | 2. | 3. | 4.

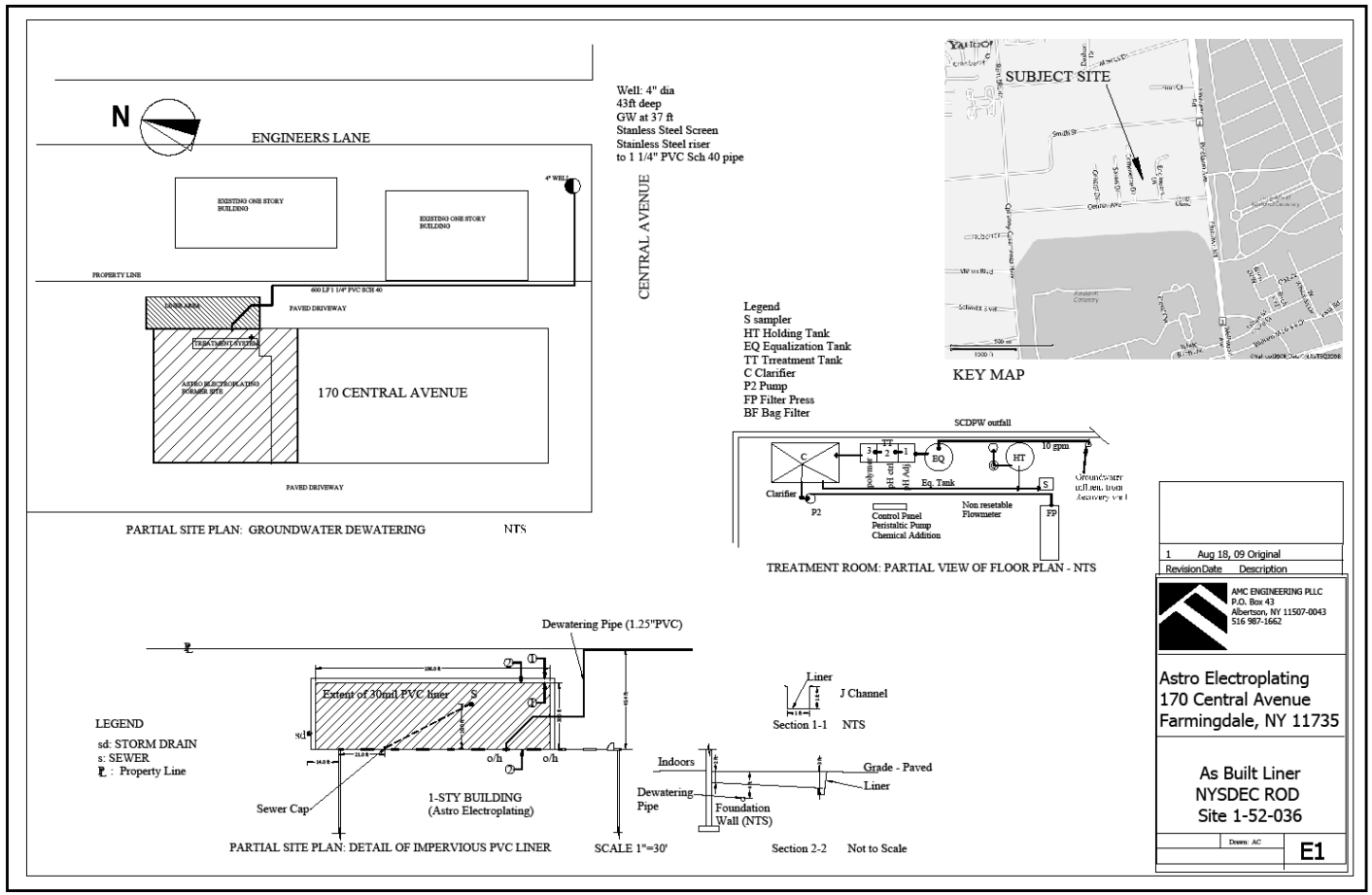
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 12-05) Previous editions are obsolete. 08 035 JJK

GENERATOR'S INITIAL COPY

Receipt 1, Image 1 of 2

7.3 As Built Liner / Piping Installation


N
ENGINEERS LANE
EXISTING ONE STORY BUILDING
EXISTING ONE STORY BUILDING
4" WELL
PROPERTY LINE
600 LF 1 1/4" PVC SCH 40
PAVED DRIVEWAY
TREATMENT SYSTEM
ASTRO ELECTROPLATING FORMER SITE
170 CENTRAL AVENUE
PAVED DRIVEWAY
CENTRAL AVENUE
Well: 4" dia
43ft deep
GW at 37 ft
Stanless Steel Screen
Stainless Steel riser
to 1 1/4" PVC Sch 40 pipe
Legend
S sampler
HT Holding Tank
EQ Equalization Tank
TT Trreatment Tank
C Clarifier
P2 Pump
FP Filter Press
BF Bag Filter
SUBJECT SITE
KEY MAP
PARTIAL SITE PLAN: GROUNDWATER DEWATERING NTS
SCDPW outfall
10 gpm
C
EQ
HT
Clarifier
Eq. Tank
S
P2
Control Panel
Peristaltic Pump
Chemical Addition
Non resetable
Flowmeter
FP
TREATMENT ROOM: PARTIAL VIEW OF FLOOR PLAN - NTS
1 Aug 18, 09 Original
Revision Date Description
AMC ENGINEERING PLLC
P.O. Box 43
Albertson, NY 11507-0043
516 987-1662
Astro Electroplating
170 Central Avenue
Farmingdale, NY 11735
As Built Liner
NYSDEC ROD
Site 1-52-036
Drawn: AC
E1
Dewatering Pipe (1.25"PVC)
Extent of 30mil PVC liner
S
sd
o/h
o/h
Sewer Cap
1-STY BUILDING
(Astro Electroplating)
LEGEND
sd: STORM DRAIN
s: SEWER
℄ : Property Line
PARTIAL SITE PLAN: DETAIL OF IMPERVIOUS PVC LINER SCALE 1"=30'
Liner
J Channel
Section 1-1 NTS
Indoors
Grade - Paved
Liner
Dewatering
Pipe
Foundation
Wall (NTS)
Section 2-2 Not to Scale

7.4 LP-1 Pre Remedial analysis

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDOH# NY012
PADOH# 68-2943

1 of 5 pages

November 17, 2006

Chemical Pollution Resourses
Patrick Enochs
29 Roosevelt Avenue
Massapequa Park, New York 11762

[redacted]

Dear Mr. Enochs:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on November 14, 2006. Long Island Analytical Laboratories analyzed the samples on November 17, 2006 for the following:

CLIENT ID	ANALYSIS
DW North Side LP-1	SCDH Volatiles, Semi-Volatiles and Metals

Samples received at 5°C.

If you have any questions or require further information, please call at your convenience. Report shall not be reproduced except in full, without the written approval of the laboratory. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Receipt 1, Image 1 of 6

NOV-17-2006 13:19 L.I. ANALYTICAL LABS. INC 631 472 8505 P.02

2 of 5 pages

Client: Chemical Pollution Resourses	Client ID: 170 Central Ave. Farmingdale (DW North Side LP-1)
Date received: 11/14/06	Laboratory ID: 1124694
Date extracted: 11/15/06	Matrix: Soil
Date analyzed: 11/15/06	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	MDL	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	5 ug/kg	<5
CHLOROMETHANE	74-87-3	5 ug/kg	<5
VINYL CHLORIDE	75-01-4	5 ug/kg	<5
BROMOMETHANE	74-83-9	5 ug/kg	<5
CHLOROETHANE	75-00-3	5 ug/kg	<5
TRICHLOROFLUOROMETHANE	75-69-4	5 ug/kg	<5
1,1-DICHLOROETHENE	75-35-4	5 ug/kg	<5
METHYLENE CHLORIDE	75-09-2	5 ug/kg	<5
trans-1,2-DICHLOROETHENE	156-60-5	5 ug/kg	<5
1,1-DICHLOROETHANE	75-34-3	5 ug/kg	<5
2,2-DICHLOROPROPANE	594-20-7	5 ug/kg	<5
cis-1,2-DICHLOROETHENE	156-59-2	5 ug/kg	<5
BROMOCHLOROMETHANE	74-97-5	5 ug/kg	<5
CHLOROFORM	67-66-3	5 ug/kg	<5
1,1,1-TRICHLOROETHANE	71-55-6	5 ug/kg	<5
CARBON TETRACHLORIDE	56-23-5	5 ug/kg	<5
1,1-DICHLOROPROPENE	563-58-6	5 ug/kg	<5
BENZENE	71-43-2	5 ug/kg	<5
1,2-DICHLOROETHANE	107-06-2	5 ug/kg	<5
TRICHLOROETHENE	79-01-6	5 ug/kg	<5
1,2-DICHLOROPROPANE	78-87-5	5 ug/kg	<5
DIBROMOMETHANE	74-95-3	5 ug/kg	<5
BROMODICHLOROMETHANE	75-27-4	5 ug/kg	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	5 ug/kg	<5
TOLUENE	108-88-3	5 ug/kg	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	5 ug/kg	<5
1,1,2-TRICHLOROETHANE	79-00-5	5 ug/kg	<5
TETRACHLOROETHYLENE	127-18-4	5 ug/kg	<5
1,3-DICHLOROPROPANE	142-28-9	5 ug/kg	<5
DIBROMOCHLOROMETHANE	124-48-1	5 ug/kg	<5
1,2-DIBROMOETHANE	106-93-4	5 ug/kg	<5
CHLOROBENZENE	108-90-7	5 ug/kg	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	5 ug/kg	<5
ETHYLBENZENE	100-41-4	5 ug/kg	<5
STYRENE	100-42-5	5 ug/kg	<5
BROMOFORM	75-25-2	5 ug/kg	<5

MDL = Minimum Detection Limit. Calculated on a wet weight basis

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NOV-17-2006 13:19 L.I. ANALYTICAL LABS. INC 631 472 8505 P.03

3 of 5 pages

Client: Chemical Pollution Resourses	Client ID: 170 Central Ave. Farmingdale (DW North Side LP-1)
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Date analyzed: 11/15/06	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	MDL	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	5 ug/kg	<5
BROMOBENZENE	108-86-1	5 ug/kg	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	5 ug/kg	<5
1,2,3-TRICHLOROPROPANE	96-18-4	5 ug/kg	<5
n-PROPYLBENZENE	103-65-1	5 ug/kg	<5
2-CHLOROTOLUENE	95-49-8	5 ug/kg	<5
4-CHLOROTOLUENE	106-43-4	5 ug/kg	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	5 ug/kg	<5
tert-BUTYLBENZENE	98-06-6	5 ug/kg	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	5 ug/kg	<5
sec-BUTYLBENZENE	135-98-8	5 ug/kg	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/kg	<5
P-ISOPROPYLTOLUENE	99-87-6	5 ug/kg	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/kg	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/kg	<5
n-BUTYLBENZENE	104-51-8	5 ug/kg	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5 ug/kg	<5
1,2,4-TRICHLOROBENZENE	120-82-1	5 ug/kg	<5
HEXACHLOROBUTADIENE	87-68-3	5 ug/kg	<5
NAPHTHALENE	91-20-3	5 ug/kg	<5
1,2,3-TRICHLOROBENZENE	87-61-6	5 ug/kg	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	5 ug/kg	<5
FREON 113	76-13-1	5 ug/kg	<5
p-DIETHYLBENZENE	105-05-5	5 ug/kg	<5
p-ETHYLTOLUENE	622-96-8	5 ug/kg	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	5 ug/kg	<5
ACETONE	67-64-1	50 ug/kg	<50
CHLORODIFLUOROMETHANE	75-45-6	5 ug/kg	<5
METHYL ETHYL KETONE	78-93-3	10 ug/kg	<10
METHYL ISOBUTYL KETONE	108-10-1	5 ug/kg	<5
p & m-XYLENE	1330-20-7	10 ug/kg	<10
o-XYLENE	1330-20-7	5 ug/kg	<5
MTBE	1634-04-4	5 ug/kg	<5

MDL = Minimum Detection Limit. Calculated on a wet weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

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Receipt 1, Image 3 of 6

NOV-17-2006 13:19 L.I. ANALYTICAL LABS. INC 631 472 8505 P.04

4 of 5 pages

Client: Chemical Pollution Resourses	Client ID: 170 Central Ave. Farmingdale (DW North Side LP-1)
Date received: 11/14/06	Laboratory ID: 1124694
Date extracted: 11/16/06	Matrix: Soil
Date analyzed: 11/16/06	ELAP #: 11693

SCDH SEMI-VOLATILE ANALYSIS

Parameter	CAS No.	MDL	Results ug/kg
Anthracene	120-12-7	40 ug/kg	<40
Fluorene	86-73-7	40 ug/kg	<40
Phenanthrene	85-01-8	40 ug/kg	<40
Pyrene	129-00-0	40 ug/kg	<40
Acenaphthene	83-32-9	40 ug/kg	<40
Benzo(a)Anthracene	56-55-3	40 ug/kg	<40
Fluoranthene	206-44-0	40 ug/kg	<40
Benzo(b)Fluoranthene	205-99-2	40 ug/kg	<40
Benzo(k)fluoranthene	207-08-9	40 ug/kg	<40
Chrysene	218-01-9	40 ug/kg	<40
Benzo(a)Pyrene	50-32-8	40 ug/kg	<40
Benzo(g,h,i)Perylene	191-24-2	40 ug/kg	<40
Indeno(1,2,3-cd)Pyrene	193-39-5	40 ug/kg	<40
Dibenzo(a,h)Anthracene	53-70-3	40 ug/kg	<40

MDL = Minimum Detection Limit. Calculated on a wet weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

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NOV-17-2006 13:19 L.I. ANALYTICAL LABS. INC 631 472 8505 P.05

5 of 5 pages

Client: Chemical Pollution Resourses	Client ID: 170 Central Ave. Farmingdale (DW North Side LP-1)
Date received: 11/14/06	Laboratory ID: 1124694
Date extracted: 11/15, 11/16, 11/17/06	Matrix: Soil
Date analyzed: 11/15, 11/16, 11/17/06	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	1.65 mg/kg	5.64
BERYLLIUM, Be	1.65 mg/kg	<1.65
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	2,596
COPPER, Cu	1.65 mg/kg	273
MERCURY, Hg	0.020 mg/kg	<0.020
NICKEL, Ni	1.65 mg/kg	33.3
LEAD, Pb	1.65 mg/kg	382

MDL = Minimum Detection Limit. Calculated on a wet weight basis
Analysis by SW-846 Method 6010

Michael Veraldi-Laboratory Director

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7.5 LP-1 Post Remedial analysis

NOV-22-2006 14:47 L.I. ANALYTICAL LABS. INC 631 472 8505 P.02

2 of 2 pages

Client: Chemical Pollution Resourses	Client ID: 170 Central Ave. Farmingdale (DW North Side LP-1)
Date received: 11/14/06*	Laboratory ID: 1124694
Date extracted: 11/22/06	Matrix: Soil
Date analyzed: 11/22/06	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
CHROMIUM-HEXAVALENT (VI)	1.00 mg/kg	<1.00

MDL = Minimum Detection Limit. Calculated on a wet weight basis

Performed by SW-846 Method 6010

Michael Veraldi-Laboratory Director

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TOTAL P.02

Receipt 1

7.6 Soil used as Backfill (from onsite)

DEC-11-2006 10:44 631 472 8505 P.01

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 184458
NJDOH# NY012
PADOH# 68-2943

1 of 2 pages

December 11, 2006

Chemical Pollution Resourses
Patrick Enochs
29 Roosevelt Avenue
Massapequa Park, New York 11762

Re: 476 Central Avenue, Farmingdale

Dear Mr. Enochs:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on December 6, 2006. Long Island Analytical Laboratories analyzed the samples on December 8, 2006 for the following:

CLIENT ID	ANALYSIS
Composite	Total Antimony, Arsenic, Copper, Chromium, Lead, Nickel & Thallium

Samples received at 6°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted above. Report shall not be reproduced except in full, without the written approval of the laboratory. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Receipt 1, Image 1 of 3

DEC-11-2006 10:

FAX 472 8505 P.02

2 of 2 pages

Client: Chemical Pollution Resourses	Client ID: 170 Central Avenue\ (Composite)
Date received: 12/6/06	Laboratory ID: 1125675
Date extracted: 12/8/06	Matrix: Soil
Date analyzed: 12/8/06	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
ARSENIC, As	1.65 mg/kg	7.24
CHROMIUM, Cr	1.65 mg/kg	22.0
COPPER, Cu	1.65 mg/kg	22.7
NICKEL, Ni	1.65 mg/kg	16.3
LEAD, Pb	1.65 mg/kg	10.5
ANTIMONY, Sb	1.65 mg/kg	<1.65
THALIUM, Tl	1.65 mg/kg	<1.65

MDL = Minimum Detection Limit.
Performed by SW-846 Method 6010

Calculated on a wet weight basis

Michael Veraldi-Laboratory Director

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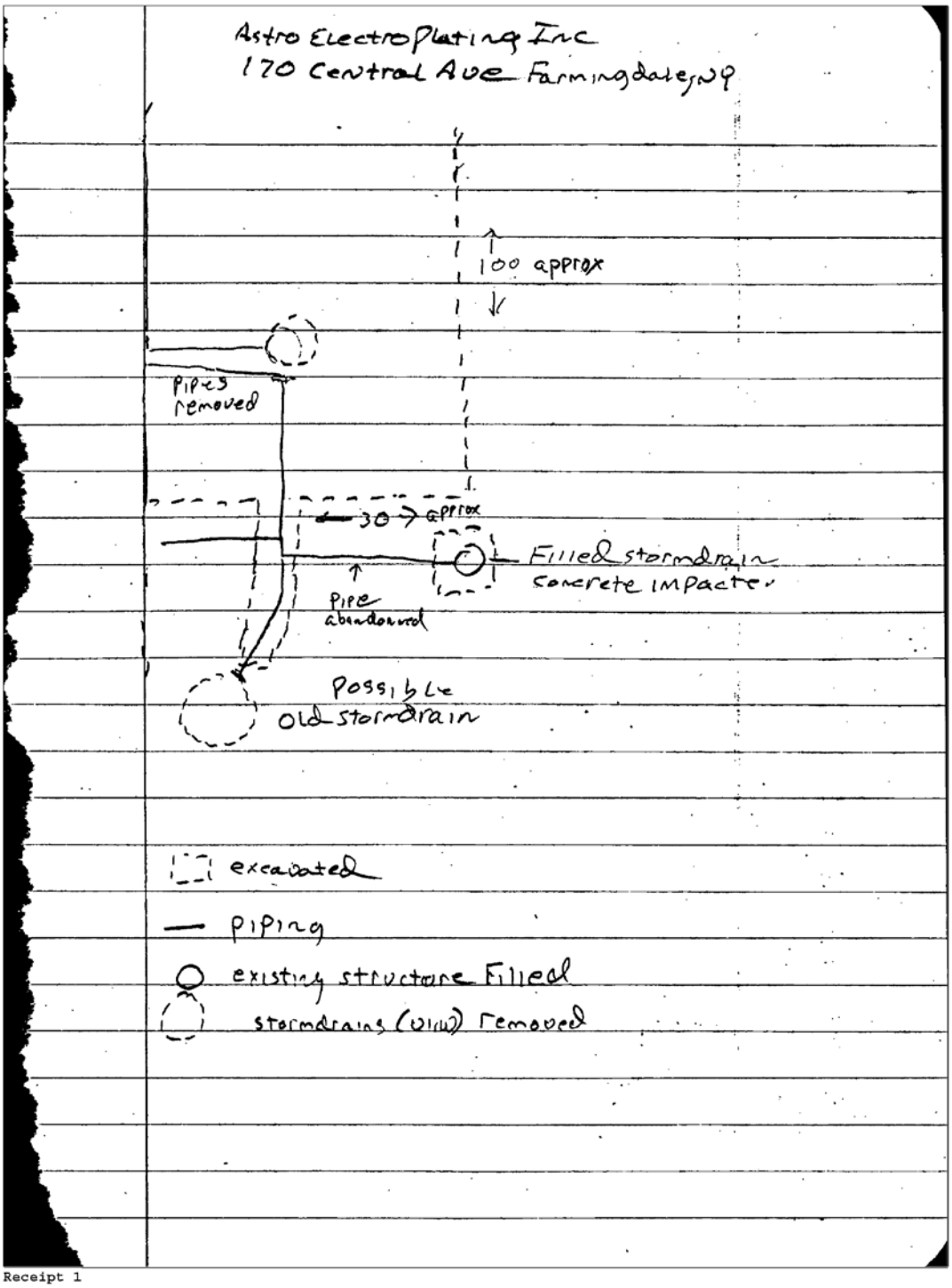
7.7 Piping sketch of underground piping and structures



Receipt 1

7.8 Engineering Changes OU1

10/22/2006 03:27 6316662019 BRIAN T MORAGHAN PE PAGE 01

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ENGINEERS·ARCHITECTS·PERMIT EXPEDITERS

510 PETERS BLVD.
BRIGHTWATERS, NY 11718
PH (631)-666-7714
FAX (631)-666-7715
BMORAGHAN@MORAGHANENGPC.COM

Chemical Pollution Resources, Inc.
Attention: Mr. Pat Enochs
29 Roosevelt Av.
Massapequa Park, NY 11762

Monday, October 23, 2006

Subject: Modifications to liner capping protocol for the Astro Electro Plating facility located in Farmingdale, NY.

Dear Mr. Enochs:

At your request we reviewed the facility plans that were prepared by Nelson & Pope Consulting Engineers, Rev. 2.0 dated 6/20/2003, entitled "Extraction Well and Capping System Plans and Details" for the above ref. facility and Noted the following:

- The detail shown on sheet 5 of 5 entitled "Mechanical Attachment to Concrete (Single Liner)", rev. 2.0 dated 8/18/03 requires that the ¼" x 2" Flat Bar be manufactured from Stainless Steel. However, in our opinion a high strength hard plastic-based material such as an HDPP or HDPC material may used as an alternate in lieu of the Stainless Steel with no impact to the overall performance of the Flat Bar attachment. However we recommend using the Stainless Steel flat washer under the head of the stainless steel anchor bolt, with the Closed cell Neoprene Gasket, and Neoprene Gasket Cement IAW the approved plans.

- Section views AA & BB of sheet 5 of 5, rev. 2.0 dated 8/18/03 require that the new Poly Flex Liner be installed approx. 2' below the existing 6" thick finished road way surface, over the existing sub-grade, and capped with approximately 2 feet of sand. In our opinion a more optimal protocol for the liner installation would include the following:

    1. Excavate down approximately 2'-6" and create the U shaped Anchor Trench as shown on the approved plans, and install a layer of AASHTO M88 CL II non woven filter fabric over the existing compacted sub-grade. The entire U shaped anchor trench must be lined with the filter fabric. The sides of the trench may be sloped @ 45 degrees to resemble a haunch, in order to obtain better soil stability in the trench if necessary.
    2. After installing the filter fabric, we recommend lining the haunched shape trench with a 4" thick sub-layer of clean fine sand, along with a 4" thick sub-layer of clean fine sand over the top of the filter fabric to act as a firm bedding for the Poly Flex Liner.

Page 1 of 2

Receipt 1, Image 1 of 2

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3. Now install the Poly Flex Liner over the 4" thick sub-layer of clean fine sand, insuring that the entire haunched shape trench is wrapped with the Poly Flex Liner. This 4" thick sub-layer of sand will act as a firm bedding to prevent liner rupture from any potential aggregates in the sub-grade below.
4. Next install a 4" thick layer of clean fine sand over the top of the Poly Flex Liner, and cap the 4" top layer of fine sand with a layer of filter fabric, than back fill 20" with a NYSDOT RCA blend (compacted in 2 equal lifts).
5. Install a final 2" thick asphalt Top Coat (NYSDOT Type 6 F) to match existing, and fill all saw cut areas with liquid asphalt filler as shown on the approved plans.

This protocol in our opinion will provide a more stable base for the Poly Flex Liner, and provide a more robust Sub-grade in the areas of repaired asphalt roadway.

If you have any questions concerning our assessment of this project please contact me personally.

Regards,

Brian T. Moraghan PE
Principal

7.9 Groundwater Analysis 7/19/2005

2 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/20/05	Matrix: Liquid
Date analyzed: 7/20/05	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	MDL	Results ug/L
BENZENE	71-43-2	0.7 ug/L	<0.7
BROMOBENZENE	108-86-1	5 ug/L	<5
BROMOCHLOROMETHANE	74-97-5	5 ug/L	<5
BROMODICHLOROMETHANE	75-27-4	5 ug/L	<5
BROMOFORM	75-25-2	5 ug/L	<5
BROMOMETHANE	74-83-9	5 ug/L	<5
n-BUTYLBENZENE	104-51-8	5 ug/L	<5
sec-BUTYLBENZENE	135-98-8	5 ug/L	<5
tert-BUTYLBENZENE	98-06-6	5 ug/L	<5
CARBON TETRACHLORIDE	56-23-5	5 ug/L	<5
CHLOROBENZENE	108-90-7	5 ug/L	<5
CHLORODIBROMOMETHANE	124-48-1	5 ug/L	<5
CHLOROETHANE	75-00-3	5 ug/L	<5
CHLOROFORM	67-66-3	5 ug/L	<5
CHLOROMETHANE	74-87-3	5 ug/L	<5
2-CHLOROTOLUENE	95-49-8	5 ug/L	<5
4-CHLOROTOLUENE	106-43-4	5 ug/L	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5 ug/L	<5
1,2-DIBROMOETHANE	106-93-4	5 ug/L	<5
DIBROMOMETHANE	74-95-3	5 ug/L	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/L	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/L	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/L	<5
DICHLORODIFLUOROMETHANE	75-71-8	5 ug/L	<5
1,1-DICHLOROETHANE	75-34-3	5 ug/L	<5
1,2-DICHLOROETHANE	107-06-2	5 ug/L	<5
1,1-DICHLOROETHENE	75-35-4	5 ug/L	<5
cis-1,2-DICHLOROETHENE	156-59-2	5 ug/L	<5
trans-1,2-DICHLOROETHENE	156-60-5	5 ug/L	<5
1,2-DICHLOROPROPANE	78-87-5	5 ug/L	<5
1,3-DICHLOROPROPANE	142-28-9	5 ug/L	<5
2,2-DICHLOROPROPANE	594-20-7	5 ug/L	<5

MDL = Minimum Detection Limit.

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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/20/05	Matrix: Liquid
Date analyzed: 7/20/05	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	MDL	Results ug/L
BENZENE	71-43-2	0.7 ug/L	<0.7
BROMOBENZENE	108-86-1	5 ug/L	<5
BROMOCHLOROMETHANE	74-97-5	5 ug/L	<5
BROMODICHLOROMETHANE	75-27-4	5 ug/L	<5
BROMOFORM	75-25-2	5 ug/L	<5
BROMOMETHANE	74-83-9	5 ug/L	<5
n-BUTYLBENZENE	104-51-8	5 ug/L	<5
sec-BUTYLBENZENE	135-98-8	5 ug/L	<5
tert-BUTYLBENZENE	98-06-6	5 ug/L	<5
CARBON TETRACHLORIDE	56-23-5	5 ug/L	<5
CHLOROBENZENE	108-90-7	5 ug/L	<5
CHLORODIBROMOMETHANE	124-48-1	5 ug/L	<5
CHLOROETHANE	75-00-3	5 ug/L	<5
CHLOROFORM	67-66-3	5 ug/L	<5
CHLOROMETHANE	74-87-3	5 ug/L	<5
2-CHLOROTOLUENE	95-49-8	5 ug/L	<5
4-CHLOROTOLUENE	106-43-4	5 ug/L	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5 ug/L	<5
1,2-DIBROMOETHANE	106-93-4	5 ug/L	<5
DIBROMOMETHANE	74-95-3	5 ug/L	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/L	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/L	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/L	<5
DICHLORODIFLUOROMETHANE	75-71-8	5 ug/L	<5
1,1-DICHLOROETHANE	75-34-3	5 ug/L	<5
1,2-DICHLOROETHANE	107-06-2	5 ug/L	<5
1,1-DICHLOROETHENE	75-35-4	5 ug/L	<5
cis-1,2-DICHLOROETHENE	156-59-2	5 ug/L	<5
trans-1,2-DICHLOROETHENE	156-60-5	5 ug/L	<5
1,2-DICHLOROPROPANE	78-87-5	5 ug/L	<5
1,3-DICHLOROPROPANE	142-28-9	5 ug/L	<5
2,2-DICHLOROPROPANE	594-20-7	5 ug/L	<5

MDL = Minimum Detection Limit.

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3 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/20/05	Matrix: Liquid
Date analyzed: 7/20/05	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	MDL	Results ug/L
1,1-DICHLOROPROPENE	563-58-6	5 ug/L	<5
ETHYLBENZENE	100-41-4	5 ug/L	<5
HEXACHLOROBUTADIENE	87-68-3	5 ug/L	<5
ISOPROPYLBENZENE	98-82-8	5 ug/L	<5
p-ISOPROPYLTOLUENE	99-87-6	5 ug/L	<5
METHYLENE CHLORIDE	75-09-2	5 ug/L	<5
NAPHTHALENE	91-20-3	5 ug/L	<5
n-PROPYLBENZENE	103-65-1	5 ug/L	<5
STYRENE	100-42-5	5 ug/L	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	5 ug/L	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	5 ug/L	<5
TETRACHLOROETHENE	127-18-4	5 ug/L	<5
TOLUENE	108-88-3	5 ug/L	<5
1,2,3-TRICHLOROBENZENE	87-61-6	5 ug/L	<5
1,2,4-TRICHLOROBENZENE	120-82-1	5 ug/L	<5
1,1,1-TRICHLOROETHANE	71-55-6	5 ug/L	<5
1,1,2-TRICHLOROETHANE	79-00-5	5 ug/L	<5
TRICHLOROETHENE	79-01-6	5 ug/L	<5
TRICHLOROFLUOROMETHANE	75-69-4	5 ug/L	<5
1,2,3-TRICHLOROPROPANE	96-18-4	5 ug/L	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	5 ug/L	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	5 ug/L	<5
VINYL CHLORIDE	75-01-4	5 ug/L	<5
ACETONE	62-64-1	50 ug/L	<50
CARBON DISULFIDE	75-15-0	5 ug/L	<5
2-BUTANONE (MEK)	78-93-3	10 ug/L	<10
VINYL ACETATE	108-05-4	5 ug/L	<5
2-HEXANONE	591-78-6	5 ug/L	<5
p & m-XYLENE	1330-20-7	10 ug/L	<10
o-XYLENE	95-47-6	5 ug/L	<5
MTBE	1634-05-4	5 ug/L	<5

MDL = Minimum Detection Limit.

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	MDL	Results ug/L
Bis(2-CHLOROETHYL)ETHER	111-44-4	5 ug/L	<5
PHENOL	108-95-1	5 ug/L	<5
2-CHLOROPHENOL	95-57-8	5 ug/L	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/L	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/L	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/L	<5
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	5 ug/L	<5
2-METHYLPHENOL	95-48-7	5 ug/L	<5
HEXACHLOROETHANE	67-72-1	5 ug/L	<5
N-NITROSODI-n-PROPYL AMINE	621-64-7	5 ug/L	<5
4-METHYLPHENOL	106-44-5	5 ug/L	<5
NITROBENZENE	98-95-3	5 ug/L	<5
ISOPHORONE	78-59-1	5 ug/L	<5
2-NITROPHENOL	88-75-5	5 ug/L	<5
2,4-DIMETHYLPHENOL	105-67-9	5 ug/L	<5
Bis(2-CHLOROETHOXY)METHANE	111-91-1	5 ug/L	<5
2,4-DICHLOROPHENOL	102-83-2	5 ug/L	<5
1,2,4-TRICHLOROBENZENE	120-82-1	5 ug/L	<5
NAPHTHALENE	91-20-3	5 ug/L	<5
4-CHLOROANILINE	106-47-8	5 ug/L	<5
HEXACHLOROBUTADIENE	87-68-3	5 ug/L	<5
4-CHLORO-3-METHYLPHENOL	59-50-7	5 ug/L	<5
2-METHYLNAPHTHALENE	91-57-6	5 ug/L	<5
HEXACHLOROCYCLOPENTADIENE	77-47-4	5 ug/L	<5
2,4,6-TRICHLOROPHENOL	88-06-2	5 ug/L	<5
2,4,5-TRICHLOROPHENOL	95-95-4	5 ug/L	<5
2-CHLORONAPHTHALENE	91-58-7	5 ug/L	<5
2-NITROANILINE	88-74-4	5 ug/L	<5
ACENAPHTHYLENE	208-96-8	5 ug/L	<5
DIMETHYLPHTHALATE	131-11-3	5 ug/L	<5
2,6-DINITROTOLUENE	606-20-2	5 ug/L	<5
ACENAPHTHENE	83-32-9	5 ug/L	<5

MDL = Minimum Detection Limit.

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5 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	MDL	Results ug/L
3-NITROANILINE	99-09-2	5 ug/L	<5
2,4-DINITROPHENOL	51-28-5	5 ug/L	<5
DIBENZOFURAN	132-64-9	5 ug/L	<5
2,4-DINTROTOLUENE	121-14-2	5 ug/L	<5
4-NITROPHENOL	100-02-7	5 ug/L	<5
FLUORENE	86-73-7	5 ug/L	<5
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	5 ug/L	<5
DIETHYLPHTHALATE	84-66-2	5 ug/L	<5
4-NITROANILINE	100-01-6	5 ug/L	<5
4,6-DINITRO-2-METHYLPHENOL	534-52-1	5 ug/L	<5
N-NITROSODIPHENYLAMINE	86-30-6	5 ug/L	<5
4-BROMOPHENYL-PHENYL ETHER	101-55-3	5 ug/L	<5
HEXACHLOROBENZENE	118-74-1	5 ug/L	<5
PENTACHLORPHENOL	87-86-5	5 ug/L	<5
PHENANTHRENE	85-01-8	5 ug/L	<5
ANTHRACENE	120-12-7	5 ug/L	<5
Di-n-BUTYLPHTHALATE	84-74-2	5 ug/L	<5
FLUORANTHENE	206-44-0	5 ug/L	<5
PYRENE	129-00-0	5 ug/L	<5
BUTYLBENZYLPHTHALATE	85-68-7	5 ug/L	<5
3,3-DICHLOROBENZIDINE	91-94-1	5 ug/L	<5
BENZO-a-ANTHRACENE	56-55-3	5 ug/L	<5
CHRYSENE	218-01-9	5 ug/L	<5
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	5 ug/L	43
DI-n-OCTYLPHTHALATE	117-84-0	5 ug/L	<5
BENZO-b-FLUOROANTHENE	205-99-2	5 ug/L	<5
BENZO-k- FLUOROANTHENE	207-08-9	5 ug/L	<5
BENZO-a-PYRENE	50-32-8	5 ug/L	<5
INDENO(1,2,3-c,d)PYRENE	193-39-5	5 ug/L	<5
DIBENZO-a,h-ANTHRACENE	53-70-3	5 ug/L	<5
BENZO-g,h,i-PERYLENE	191-24-2	5 ug/L	<5

MDL = Minimum Detection Limit.

Michael Veraldi

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

6 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

EPA METHOD 608

PARAMETER	CAS No.	MDL	RESULTS ug/L
ALDRIN	309-00-2	0.01 ug/L	<0.01
α - BHC	319-84-6	0.01 ug/L	<0.01
β - BHC	319-85-7	0.01 ug/L	<0.01
δ - BHC	319-86-8	0.01 ug/L	<0.01
γ - BHC (Lindane)	58-89-9	0.02 ug/L	<0.02
CHLORDANE	12789-03-6	0.02 ug/L	<0.02
4,4'-DDD	72-54-8	0.01 ug/L	<0.01
4,4'-DDE	72-55-9	0.01 ug/L	<0.01
4,4'-DDT	50-29-3	0.05 ug/L	<0.05
DIELDRIN	60-57-1	0.01 ug/L	<0.01
ENDOSULFAN I	959-98-8	0.01 ug/L	<0.01
ENDOSULFAN II	33212-65-9	0.01 ug/L	<0.01
ENDOSULFAN SULFATE	1031-07-8	0.02 ug/L	<0.02
ENDRIN	72-20-8	0.01 ug/L	<0.01
ENDRIN ALDEHYDE	7421-93-4	0.01 ug/L	<0.01
ENDRIN KETONE	53494-70-5	0.02 ug/L	<0.02
HEPTACHLOR	76-44-8	0.01 ug/L	<0.01
HEPTACHLOR EPOXIDE	1024-57-3	0.01 ug/L	<0.01
4,4'-METHOXYCHLOR	72-43-5	0.01 ug/L	<0.01
TOXAPHENE	8001-35-2	20 ug/L	<20
AROCLOR-1016	12674-11-2	20 ug/L	<20
AROCLOR-1221	1104-28-2	20 ug/L	<20
AROCLOR-1232	11141-16-5	20 ug/L	<20
AROCLOR-1242	53469-21-9	20 ug/L	<20
AROCLOR-1248	12672-29-6	20 ug/L	<20
AROCLOR-1254	1109769-1	20 ug/L	<20
AROCLOR-1260	11096-82-5	20 ug/L	<20

MDL = Minimum Detection Limit.

Michael Veraldi

Michael Veraldi-Laboratory Director

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7 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

EPA Method 615 Herbicides

PARAMETER	CAS #	MDL	RESULTS ug/L
2,4-D	94-75-7	5 ug/L	<5
SILVEX(2,4,5-TP)	93-72-1	1 ug/L	<1

MDL = Minimum Detection Limit.

Michael Veraldi

Michael Veraldi-Laboratory Director

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8 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/28/05	Matrix: Liquid
Date analyzed: 8/5/05	ELAP #: 11685

ANALYTICAL REPORT

Lab ID #	Client ID	Parameter	Result
1084020	Monitoring Well	Dixon	<5.9 ug/L

Method 8290

Michael Veraldi

Michael Veraldi-Laboratory Director

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9 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/22/05	Matrix: Liquid
Date analyzed: 7/22/05	ELAP #: 11693

Target Compound List-Metals

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ALUMINUM, Al	0.05 mg/L	26.6
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.00 mg/L	<1.00
BERYLLIUM, Be	0.05 mg/L	<0.05
CALCIUM, Ca	0.05 mg/L	19.6
CADMIUM, Cd	0.05 mg/L	<0.05
COBALT, Co	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	1.20
COPPER, Cu	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	41.9
MERCURY, Hg	0.002 mg/L	<0.002
POTASSIUM, K	0.05 mg/L	6.52
MAGNESIUM, Mg	0.05 mg/L	5.26
MANGANESE, Mn	0.05 mg/L	0.97
SODIUM, Na	0.05 mg/L	41.6
NICKEL, Ni	0.05 mg/L	0.13
LEAD, Pb	0.005 mg/L	0.025
ANTIMONY, Sb	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
THALIUM, Tl	0.05 mg/L	<0.05
VANADIUM, V	0.05 mg/L	0.05
ZINC, Zn	0.05 mg/L	0.10

MDL = Minimum Detection Limit.

Michael Veraldi

Michael Veraldi-Laboratory Director

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Pg 1 of 1

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: CAR	CONTACT: Pat Enich	SAMPLER (SIGNATURE)	DATE 7/19/05 TIME	SAMPLE(S) SEALED: YES / NO
	PHONE: 516 541-8290	SAMPLER NAME (PRINT): Chris Ortiz	DATE 7/19/05 TIME 9:45A	CORRECT CONTAINER(S): YES / NO
	FAX:			0017655

PROJECT LOCATION: Corner of Engineers Ln + Central Ave Farmingdale

SAMPLES RECEIVED AT: 7 °C

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

LABORATORY ID # (For Laboratory Use Only)	MATRIX (W/S)	TYPE	PRES.	PH UNITS	RES. CHLORINE PPM	SAMPLE # - LOCATION	TCL PP metals	TCL 8260	TCL 8270 BN/A	PCB's 8081	8151 Herb.	Cyanide	Dioxin	See Attached	# OF CONTAINERS
1. 1084020	L	G	4°C	7	QD	Monitoring Well	X	X	X	X	X	X	X	X	9
2.						STW 36'6" OTB 37'									
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															
11.															
12.															
13.															
14.						Flag "U"									

MATRIX: S=SOIL; SL=SLUDGE; L=LIQUID; DW=DRINKING WATER; A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL, O=OIL
TYPE: G=GRAB; C=COMPOSITE; SS=SPLIT SPOON
PRES: ICE, HCL, H_2SO_4, NAOH, $NA_2S_3O_3$

TURNAROUND REQUIRED: ☒ NORMAL ☐ STAT BY / /

COMMENTS / INSTRUCTIONS: 2 hours billed

RELINQUISHED BY (SIGNATURE)	DATE 7/19/05 TIME	PRINTED NAME: Chris Ortiz	RECEIVED BY (SIGNATURE)	DATE TIME	PRINTED NAME	
RELINQUISHED BY (SIGNATURE)	DATE TIME	PRINTED NAME	RECEIVED BY SAMPLE CUSTODIAN	DATE 7/19/05 TIME 3:57P	PRINTED NAME: T. Seugne	

WHITE - OFFICE / CANARY - LAB / PINK - SAMPLE CUSTODIAN / GOLDENROD - CLIENT NYSDOH ELAP# 11693 USEPA# NY01273 AIHA# 164456 CTDOH# PH-0284

7.10 OU2A Babylon Permit

TOWN OF BABYLON **EXCAVATION IN STREETS** **APPLICATION FOR PERMIT**

PERMIT # 9616 JOB # 2007-521

I hereby make application to excavate at N/S/O CENTRAL AVE 20' W/O ENGINEERS LA.

Hamlet of E FARM. to a depth of 4' for the purpose of ELECTRIC LINE

The application, or his agent, in signing the application confirms that he has read, understands and will adhere to the repair specification (BHDR-71), and is also familiar with the portions of the Town Ordinance as it pertains to the proposed construction and the required repair.

If installation requires excavation greater than one foot in depth, the installer must obtain main markings and clearances from local utility companies.

PERMIT FEES INFORMATION

CHECK TYPE OF OPERATION	BASE FEE	INDICATE	ADDITIONAL TIMES UNIT RATE	SUBTOTAL
Driveway Apron	$75	Ea.	$25.00 each	
Utility Excavation	$75	Ea.	$25.00 each	
Excavation 18" or less	$75*	L.F.	$1.00 per foot	
Excavation bet. 18" & 5'	$100*	70 L.F.	$1.25 per foot	100.00
Excavation exceeding 5'	$150*	L.F.	$1.50 per foot	
Test/Monitoring Wells	$75	Ea.		
Basin	$150	Ea.		
Utility Inspection Fee	$200	Ea.		

*for the first 100 linear feet, or less

$ 100.00

CERTIFIED CHECK / CASH INFORMATION

CHECK TYPE OF OPERATION	INDICATE	UNIT RATE	REMOVE AND REPLACE UNIT	SUBTOTAL
Service Connection	Ea.	$500.00 Ea.		
Excavation 18" or less	L.F.	$18.50 L.F.		
Excavation bet. 18" & 5'	70 L.F.	$20.00 L.F.		1400.00
Excavation exceeding 5'	L.F.	$25.00 L.F.		
Pavement Restoration	S.F.	$9.00 S.F.	$13.00 S.F.	
Curbing	L.F.	$18.50 L.F.	$22.50 L.F.	
Driveway Aprons	S.F.	Res: $11.00 Com: $15.00 S.F.	R: 14.00/C: $19.00 S.F.	
Sidewalks	S.F.	Res: $7.00 Cam: $10.00 S.F.	R: $11.00/C: 15.00 S.F.	
Concrete Curb Gutter	L.F.	3": $19.00/6": $22.00 L.F.	3": $23.00/6": $26.00 L.F.	
Install Basin	Ea.	$3,500.00 Ea.		
Install 15" R.C.P.	L.F.	$57.00 L.F.		
Install 18" R.C.P.	L.F.	$68.00 L.F.		
Test/Monitoring Wells	Ea.	$100.00 Ea.		

TOTAL CHECK/CASH AMOUNT REQUIRED $ 1400.00

Above data not applicable for utility repair excavations (See Ordinance).

Provisions for posting a certified check or cash shall have a duration, from the date of completion of the work under this permit, of two (2) years in the case of all excavations 18" or less in depth, three (3) years for all excavations between 18" and 5' in depth and four (4) years for all excavations exceeding 5' in depth.

OWNER'S PROTECTION POLICY — INSURANCE INFORMATION

Insurance Company EVEREST INDEMNITY INSURANCE CO $ 50,000 Property Damage Liability

Policy Number 4000001100-071 $ 500,000 Liability

Effective Date 4-11-07 Expiration Date 4-11-08 $ 1,000,000 Personal Injury

IMPORTANT

All fees will be subject to change at the discretion of the Town Board and the issuing authority reserves the right to revoke this

Receipt 1 (cntd. overleaf)

permit, at its discretion, without a hearing or the necessity of showing cause either before or during the operations authorized.

NOTIFICATIONS

It is absolutely necessary that the Permittee notify the Highway Department one day prior to commencing work. Work must start within 60 days after date of permit issuance. All final restoration work must be completed within 180 days after date of permit issuance or an extension fee of $50 will be required.

Date Signed October 17, 2007 Signed _____, Applicant

Telephone No. (631) 207-9240 Address P.O. Box 2420

Town Patchogue, N.Y. Zip 11772

An application fee of $30.00 plus a fee of $ 100.00 for a total fee of $ 130.00 as prescribed by the Superintendent of Highways will be required.

Philip A Bergdoll
Superintendent of Highways

J. E. Tinsley-Cockeret
Town Clerk

COMMISSIONER - WHITE **HIGHWAY DEPT. COPY - YELLOW** **TOWN CLERK'S COPY - PINK**

Receipt 1

7.11 OU2A Discharge Permit

COUNTY OF SUFFOLK

STEVE LEVY
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PUBLIC WORKS

THOMAS LAGUARDIA, P.E.
CHIEF DEPUTY COMMISSIONER

GILBERT ANDERSON, P.E.
COMMISSIONER

LOUIS CALDERONE
DEPUTY COMMISSIONER

CERTIFIED MAIL

August 11, 2009

Astro Electroplating, Inc.
171 4th Avenue
Bay Shore, NY 11706

Attention: Neil Weinstein

Re: Discharge Certification for: Groundwater Remediation Project
170 Central Avenue
Farmingdale, NY 11735

DC Permit No.: 507-711-0001-OB

Dear Mr. Weinstein:

Attached is an executed copy of the above-referenced "Discharge Certification" for your facility.

Please review this document and attached "General Conditions" carefully and note the following:

1) **Discharge Limitations:** Effluent characteristics/Discharge Limitations and/or sampling criteria are detailed on page 2.

2) **General Conditions:** This section details certain responsibilities relative to reporting accidental spills, monitoring requirements, prohibited discharges and your right to appeal. Paragraph 7 references the regulatory publications which state explicitly your responsibility as an industrial sewer user. These publications are available for review at most Public Libraries and can be purchased from the U.S. Government printing office.

3) **Reporting Requirements:** The Industrial Waste Unit will send you reporting forms semi-annually. Please use the forms to report sludge and/or chemical waste removal and flow information as required by the Discharge Certification.

SUFFOLK COUNTY IS AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

335 YAPHANK AVENUE ■ YAPHANK, N.Y. 11980 ■ (631) 852-4160
FAX (631) 852-5674

Page 2
Groundwater Remediation Project

4) **Expiration Date:** No later than 90 days prior to expiration of this Discharge Certification you must apply for renewal.

If you have any questions regarding your "Discharge Certification" or Industrial/Chemical Wastes Monitoring Report, do not hesitate to call me at 852-4314.

Very truly yours,

Diane L. Booth
Pretreatment Program Coordinator
Industrial Waste Unit
Wastewater Management & Pretreatment Section

DLB:VAA:am

Attachments: Discharge Certification
General Conditions
Concentration Limits

cc: File
Property Owner

Suffolk County Department of Public Works

Wastewater Management and Pretreatment Section
Industrial Waste Unit

* * * Discharge Certification * * *

Type "B"

SCSD #3 - Southwest
RPTM#:0100-00700-0100-021000

DC No.: 507-711-0001-0B

Issued to:

Groundwater Remediation Project
at the former Astro Electroplating Facility Unit #11
Nowak Industrial Complex
170 Central Avenue
Farmingdale, NY 11735

Neil Weinstein – President, Astro Electroplating/Bay Shore Facility – (631) 968-0656
Contact: Project Manager, Ariel Czemerinski, P.E. – AMC Engineering PLLC – (631) 414-7396

Effective Date: August 12, 2009
Expiration Date: February 11, 2010

Property Owner: Lawrence Nowak – 55 Central Avenue - Farmingdale, NY 11735

The above-described facility is authorized to discharge, in accordance with all applicable regulations and discharge limitations contained within this "Discharge Certification" and the attached "General Conditions", Sanitary sewage and effluent from groundwater remediation project as specified within AMC Engineering letter dated 10/16/08 and submitted to SCDPW-IWU.

This Special Permit "Discharge Certification" is issued in accordance with Suffolk County Code Chapter 424 – "Sewers". As such the permitted is required to adhere to all provisions of this Chapter although not reproduced entirely in this document. Violators shall be liable for a civil penalty in an amount of not less than $300 nor more than $1,000 for each day of each violation. This permit supersedes any and all Discharge Certification permits previously issued to the premises. Issuance of this permit does not acknowledge or imply that the permittee is in compliance with the requirements of this permit.

Date: 8/13/09

Ben Wright, P.E., Chief Engineer
Division of Sanitation

Groundwater Remediation Project / former Astro Electroplating Facility (507-711-0001-0B)

During the period beginning **August 12, 2009** and lasting until **February 11, 2010** discharges from connections **001A & 001E** shall be limited, and/or controlled by the permitee and monitored by S.C.D.P.W. - Industrial Waste Unit as specified below:

Discharge Limitations

Connection Number	Effluent Characteristic	Monthly Avg. mg/L	Daily Max. mg/L	Sample Frequency	Sample Type
001A	Point of entry to SWSD for 170 Central Avenue	Sanitary & Industrial Combined			
001E	Sewer Access Port – discharge from groundwater remediation (NO sanitary waste)				
Holding Tank:	Final effluent from pretreatment of contaminated groundwater **(see Note 1)** **(Location of SCDPW - IWU automatic sampler)**				
				Tri-Annual	8 Hour Composite
	Silver	0.2	0.4	"	"
	Copper	0.8	1.6	"	"
	Nickel	4.0	8.0	"	"
	Chromium (Total)	4.0	8.0	"	"
	Zinc	2.5	5.0	"	"
	Lead	0.2	0.4	"	"
	Cadmium	0.4	0.8	"	"
	Chromium (Hexavalent)	0.2	0.4	"	Grab
	pH	5.5 Min.	12.0 Max.	"	"
	Flow **(See Note #4)**		**3,360 gallons**		

NOTES:

1) Ground-water from the remediation extraction well located at the corner of Engineer's Lane and Central Avenue in Farmingdale, NY, shall be the only allowable source of remediate authorized by this permit for discharge into the Suffolk County Sewer System.

2) The Project Manager must be on site at all times during the hours of operation to oversee the discharge. An operating day is defined as a maximum 8-hour day within the time frame of 7am and 5pm, Monday through Friday.

3) A non-resettable flow meter must be kept in working order at all times to ensure accurate flow readings. Meter failure must be reported to the IWU immediately (631) 852-4160.

4) The maximum daily discharge from this remediation project shall not exceed 3,360 gallons per day and shall not exceed a rate of seven (7) gallons per minute.

-2A-

Groundwater Remediation Project / former Astro Electroplating Facility (507-711-0001-0B)

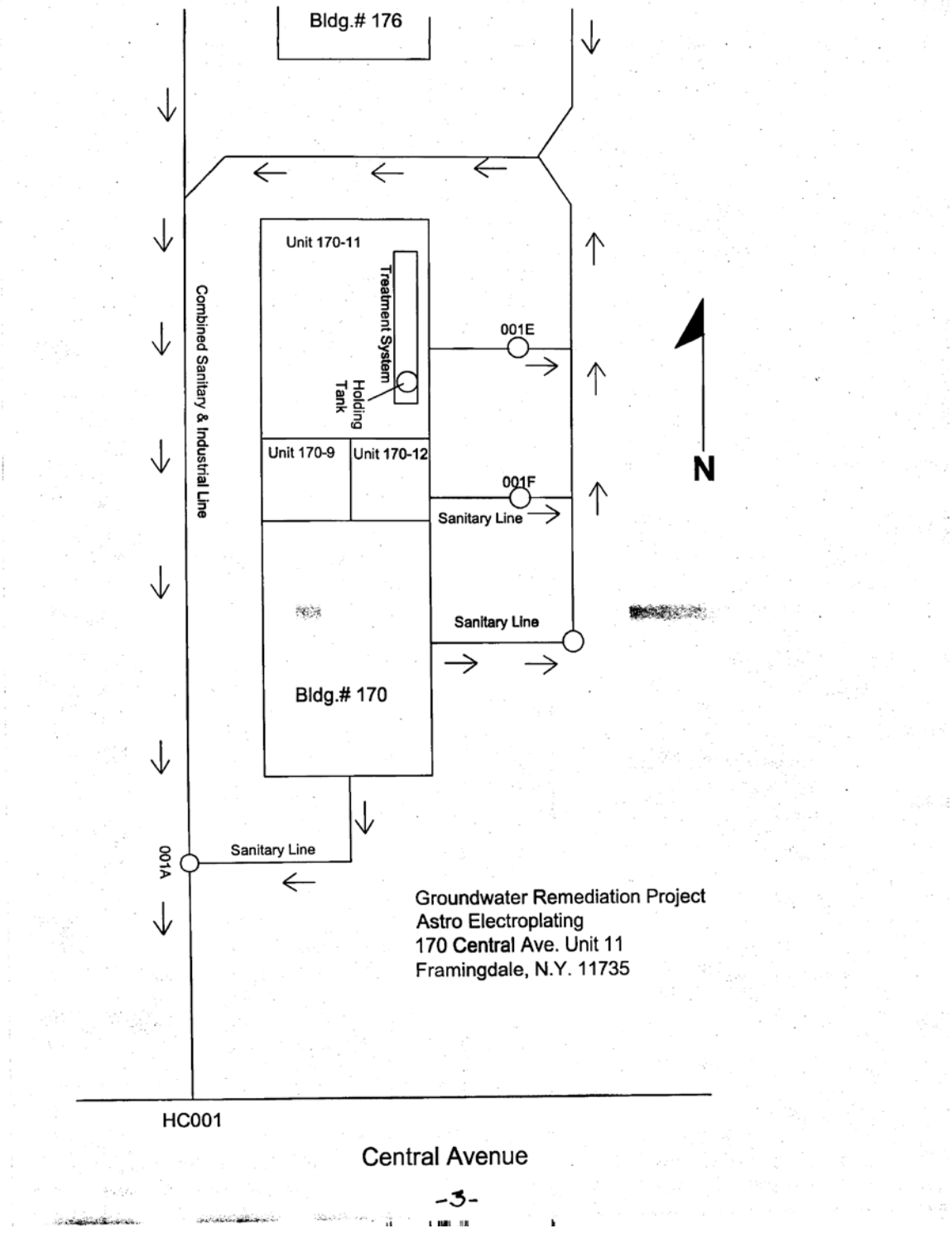
Effective Date: August 12, 2009
Expiration Date: February 11, 2010

5) The Project manager shall perform in-house monitoring of pollutant metal concentrations contained in groundwater remediate effluent samples collected at a minimum of twice daily, as follows: one sample collected in the morning and the second collected in the afternoon, to ensure that the effluent which is discharged complies with Suffolk County Local Sewer Discharge Concentration Limits.

6) Project Manager must maintain a daily log sheet recording daily flow meter readings and results of in-house monitoring.

7) Any disruption to the power source of the Automatic Sampler must be reported to the Industrial Waste Unit immediately at (631) 852-4160.

- 2B -


Bldg.# 176
Unit 170-11
Treatment System
Holding Tank
Combined Sanitary & Industrial Line
001E
N
Unit 170-9
Unit 170-12
001F
Sanitary Line
Sanitary Line
Bldg.# 170
Sanitary Line
001A
Groundwater Remediation Project
Astro Electroplating
170 Central Ave. Unit 11
Framingdale, N.Y. 11735
HC001
Central Avenue

-3-