Shaw Environmental & Infrastructure, Inc.

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Shaw The Shaw Group Inc.

November 19, 2002

Ms. Crystal Montroy
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Subject: Operations and Maintenance Report
June 2002 through October 2002
100 Oser Avenue
Hauppauge, New York

Dear Ms. Montroy:

This letter, prepared in accordance with the 100 Oser Avenue, Hauppauge, New York Operations and Maintenance (O&M) Plan, dated September 27, 2000, summarizes the O&M activities from June 2002 through October 2002.

The following work was completed during the above-referenced reporting period:

I. ADMINISTRATIVE ACTIVITIES

A. Description of Activities

1. Shaw Environmental, Inc. (Shaw), continued activities related to the O&M of the soil vapor extraction/catalytic oxidation (SVE/Catox) system.
2. The O&M report prepared for the Site dated July 23, 2002, recommended that the soil gas sampling, previously performed on a monthly basis, be performed on a quarterly basis. The recommendation was subsequently approved by the New York State Department of Environmental Conservation.
3. The O&M report also recommended that screen and sand pack for extraction well SVE-1 be cleared of fine grained sediment. Approval for the maintenance was subsequently approved by the NYSDEC. Land, Air, Water, Inc. (drilling subcontractor) was subcontracted to provide the required services.

II. OPERATION AND MAINTENANCE ACTIVITIES

A. Description of Activities

1. Shaw continued operation of the SVE/Catox system. Weekly visits were performed to ensure that the system was operating within the required parameters. The site visit forms are included in **Appendix A**.
2. The June monthly sampling event was performed on June 27, 2002. The scheduled event included the collection of samples from the SVE/CATOX system and sampling eight soil gas points (FSG-1 through FSG-6, SG-1, and SG-4). Soil gas sampling locations are illustrated on **Figure 1**. Samples were analyzed for tetrachloroethene (PCE) in accordance with the National Institute of Occupational Safety and Health (NIOSH) Method 1003. The SVE/CATOX effluent sample was also analyzed for hydrochloric acid (HCl) in accordance with NIOSH Method 7903. The analytical results for the soil gas samples are summarized in **Table 1**. The analytical results for the SVE/Catox samples are summarized in **Table 2**. A certified laboratory analytical report and chain-of-custody are included in **Appendix B**.
3. The July monthly sampling event was performed on July 24, 2002. The scheduled event included the collection of samples from the SVE/CATOX system and sampling eight soil gas points (FSG-1 through FSG-6, SG-1, and SG-4). Soil gas sampling locations are illustrated on **Figure 1**. Samples were analyzed for PCE in accordance with NIOSH Method 1003. The SVE/CATOX effluent sample was also analyzed for HCl in accordance with NIOSH Method 7903. The analytical results for the soil gas samples are summarized in **Table 1**. The analytical results for the SVE/Catox samples are summarized in **Table 2**. A certified laboratory analytical report and chain-of-custody are included in **Appendix B**.
4. The system was shut down during the week of August 18, 2002 for the completion of the pilot test for the system expansion design. The catox system was used to treat the discharge air generated during the pilot test. Effluent concentrations were monitored for volatile organic compounds using a photoionization detector. Concentrations remained at low levels during the course of the pilot test with the highest concentration being detected at 4.1 parts per million. A more detailed discussion of the pilot test data can be found in the Pilot Test Result letter dated September 11, 2002.
5. Land, Air, Water Inc. was mobilized to the Site on August 28, 2002 to clear the well screen. Pressurized water was run into the extraction well pushing fine-grained material out of the screen and filter pack.
6. The October monthly sampling event was performed on October 10, 2002. The scheduled event included the collection of samples from the SVE/CATOX system and sampling eight soil gas points (FSG-1 through FSG-6, SG-1, and SG-4). Soil gas sampling locations are illustrated on **Figure 1**. Samples were analyzed for PCE in accordance with NIOSH Method 1003. The SVE/CATOX effluent sample was also analyzed for HCl in accordance with NIOSH Method 7903. The analytical results for the soil gas samples are summarized in **Table 1**. The analytical results for the SVE/Catox samples are summarized in **Table 2**. A certified laboratory analytical report and chain-of-custody are included in **Appendix B**.

B. Summary of Findings

1. Shaw E&I received laboratory analytical data for the monthly sampling events. A summary of this data is presented in **Tables 1** and **2**.
2. The June 27, 2002 sampling event indicated problems associated with extraction well SVE-1 which began to become evident during the February 28, 2002 sampling event. A high pressure reading on the vacuum side of the blower first became evident during this sampling event. This indicates that the extraction well screen is likely clogged with fine grained material. Neither PCE nor HCl exceeded their respective short-term or long-term discharge limits.
3. A sample of the precipitate solid found in the effluent stack was submitted for x-ray fluorescence and x-ray diffraction analysis. The analytical results indicate that the material is composed primarily of aluminum salts. These likely accumulated on the aluminum stack as a result of the acidic nature of the discharge air. The laboratory report is included in **Appendix B**.
4. The July 24, 2002 sampling event indicated the same problems as described above. HCl did not exceed the short-term or long-term discharge limits. PCE exceeded the short-term and long-term discharge limits. Appropriate adjustments were made to the system following the receipt of the analytical data.
5. Data collected following the clearing on the extraction well screen and filter pack on August 28, 2002 indicated that the objective had been achieved.
6. The system was functioning properly during the October 10, 2002 sampling event. Neither PCE nor HCl exceeded their respective short-term or long-term discharge limits.
7. During the months covered in this reporting period, it is estimated that approximately 20.6 pounds of PCE was removed from the subsurface. An estimated cumulative total of approximately 428.6 pounds of PCE has been removed from the subsurface from system start-up through October 2002.
8. The historical soil gas data is graphically summarized and included as a Figure in **Appendix C**. Sufficient data has been collected to date in order to conclude that there is not a discernable trend associated with PCE concentrations observed in soil gas. Variations do not appear to be trending with the history of the operation of the SVE/Catox nor along with any seasonal variation.

C. Projected Work for the Next Period

1. Shaw is currently considering subcontracting the O&M to a local qualified engineering firm located on Long Island with a large staff of technicians. This staff would be able to respond quickly to problems associated with the ongoing operation of the system. Furthermore, the proposed company is a New York State Certified Minority Owned Business Enterprise (MBE). A statement of qualifications from an example firm is included in **Appendix D**.
2. Monthly sampling and weekly Site visits will continue in order ensure the system is operating at peak efficiency.

Please contact the undersigned with any comments or questions pertaining to the continued O&M at the Oser Avenue Site.

Sincerely,

Shaw Environmental, Inc.

Drew Graham
Project Geologist

Shaw Environmental, Inc.

Tom Antonoff
Project Manager

TABLES

Table 1
Soil Gas Sample Analalytical Results
100 Oser Avenue
Hauppauge, New York

	FSG-1	FSG-2	FSG-3	FSG-4	FSG-5	FSG-6	SG-1	SG-4
11/29/00	1,390	14,220	4,420	261	533	1,290	3,260	9,400
12/27/00	2,910	15,402	13,020	263	2,950	2,850	2,600	11,000
2/7/01	1,070	14,260	33,320	276	1,139	2,579	2,070	728
2/22/01	1,730	12,830	28,740	433	1,990	2,590	167	NS
5/31/01	NS	6,960	27,130	182	1,210	NS	4,480	13,530
7/2/01	2,110	1,240	7,330	5,130	2,260	1,830	657	NS
8/7/01	1,450	3,080	11,170	4,570	2,700	130	1,670	3,160
9/20/01	3.6	3,620	12,030	92	564	338	2,120	5,240
11/1/01	836	5,813	39,974	127	1,121	382	658	8,586
2/28/02	1,260	6,270	20,450	201	1,330	1,810	ND	ND
3/29/02	2,910	6,000	16,490	1,120	1,510	2,060	4,030	315
4/30/02	1,730	10,140	55,590	ND	1,260	3,180	5,300	1,550
5/29/02	4,450	8,389	33,900	389	181	2,700	8,910	2,060
7/24/02	300	242	22,110	1,694	1,117	1,579	7,870	1,789
10/10/02	64	434	553	36	506	430	3,050	653

Source: *Adirondack Environmental Services, Albany, New York, 2000, 2001, 2002*

Notes: *Concentrations listed in milligrams per cubic meter of tetrachloroethene.*
NS - sample not collected.
ND - not detected at or above the laboratory detection limit.

Table 2
SVE/Catox Sample Analalytical Results
100 Oser Avenue
Hauppauge, New York

	Tetrachloroethene							Hydrochloric Acid	
Date	Extraction Well Effluent		Blower Influent	Blower Effluent		Catox Effluent		Catox Effluent	
10/30/00	NS	NS	NS	11.1	NS	<3.3	NS	1.4	NS
11/29/00	1390	NS	NS	211	NS	<4.4	NS	<2.2	NS
12/22/00	783	NS	NS	NS	NS	<8.7	NS	<3.8	NS
2/7/01	618	NS	NS	189	NS	271	NS	11.4	NS
2/22/01	76	NS	NS	<10	NS	<5	NS	15.4	NS
3/27/01	219	255	NS	133	105	<10.3	NS	<4.2	<4.2
4/13/01	594	625	NS	139	186	<10	<10	280	210
5/31/01	1180	NS	NS	215	170	<9.9	<9.9	9.4	50
7/2/01	1070	NS	NS	705	NS	33	NS	206	NS
8/7/01	1520	1540	NS	312	421	352	<8.7	161	71
9/20/01	1900	1010	NS	16.5	107	22	17	<3	<4.2
11/1/01	2291	<10	NS	114	143	44	44	<4.1	<4.1
2/28/02	304	NS	309	<9.7	NS	<6.5	NS	<1.1	NS
3/29/02	452	NS	575	53	NS	33	NS	<1.4	NS
4/30/02	3260	NS	2540	466	NS	<8.3	NS	<1.3	NS
5/29/02	3410	NS	<8.1	65	NS	<8	NS	<1.3	NS
6/27/02	<7.9	NS	251	<7.2	NS	<7.5	NS	1.9	NS
7/24/02	1430	NS	2217	61	NS	474	NS	2.5	NS
10/10/02	281	NS	53	142	NS	17	NS	<1.4	NS

Source: *Adirondack Environmental Services, Albany, New York, 2000, 2001, 2002*

Notes: *NS - sample not collected.*
Concentrations expressed in milligrams per cubic meter.

FIGURES

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	ALB	SOILGAS

O MH

GATE

DRAIN

BUILDING 100

SG-1

SG-2

SG-3

SG-4

FSG-1

FSG-2

FSG-3

FSG-4

FSG-5

FSG-6

DRAIN

F. GLASS AWNING

DRAIN

E

GAS

TPH

E

TPH

RR TIE RET WALL

SAN MH

WM

SAN MH

SAN MH

SAN MH

TPH

CATV

WV

N

TPH

E

CATV

W

W

LEGEND

- SOIL GAS SURVEY POINT (APPROXIMATE)
- FOUNDATION SOIL GAS POINT (APPROXIMATE)

NOTE: ADDITIONAL RESIDENCES ARE LOCATED EAST AND WEST OF THE RESIDENCES SHOWN ON THE NORTH END OF THE MAP.

REFERENCE:

BASE MAP SOURCE: ALBERT W. TAY LLS.

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE

Shaw
Shaw E & I, Inc.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SOIL GAS SURVEY
ANALYTICAL RESULTS
100 OSER AVENUE – OU1
HAUPPAUGE, NEW YORK

DESIGNED BY	HMD	07-11-02	CHECKED BY		
DRAWN BY	HMD	07-11-02	APPROVED BY		

SCALE:	DRAWING NO.	FIGURE NO.	REVISION NO.
NTS	SOILGAS	1	

APPENDIX A

SITE VISIT FORMS

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 6/6/02

Weather: (Rain) Snow Sunny Cloudy Blizzard Temperature 70

Air Monitoring Equipment Unit No. N/A

Date Calibrated: N/A

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: 0 cfm

Record CATOX Temperatures: TI: 382 T2: 373 T3: 383

System Sampling NOT SAMPLED

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: Yes No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: Yes (No) WAS EMPTY

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No

BLOWER INFLUENT – 36" WC
BLOWER EFFLUENT – 26" WC
CATOX INFLUENT – 4" WC
STACK PID – 0.00
WELLHEAD PID – 0.00
~~WET~~ BLOWER EFFLUENT FLOW – SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

Tech Name: A. PALTELEIRO

Visit Date: 6/13/02

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 86.

Air Monitoring Equipment Unit No. [redacted]

Date Calibrated: [redacted]

System Check

Perform once a month

Is System running upon arrival? Yes No

Record Influent flowrate: _____ cfm

Record CATOX Temperatures: T1: 378 T2: 373 T3: 388

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 5 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (belts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No EMPTY

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM NOT OPERATING UPON ARRIVAL
- AIR FILTER - O.K
- KNOCK OUT - EMPTY
- SYSTEM RESTARTED - O.K
- SVE PID - 432 ppm
- BLOWER EFF. PID - 12 ppm
- CATOX EFFLUENT - 7.2 ppm.
- BLOWER EFFLUENT FLOW - 27 CFM.
- BLOWER EFFL. ~~VAC~~ + PRESSURE - 13" w c

SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PARTELLI

Visit Date: 6/20/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 84

Air Monitoring Equipment Unit No. [redacted]

Date Calibrated: [redacted]

System Check

Perform once a month

Is System running upon arrival? Yes No

Record Influent flowrate: _____ cfm

Record CATOX Temperatures: T1: 388 T2: 371 T3: 382

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No belts ok

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No EMPTY

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM OPERATING UPON ARRIVAL.
- KNOCK OUT EMPTY
- AIR FILTER - O.K
- BLOWER INSPECTED - O.K.
- DILUTION VALVE - 50% OPEN.
- MAIN VAPOR LINE VALVE - 10% OPEN.
- SVE VAC - 0.18" WC
- PID IS NOT WORKING.
- BLOWER EF - 13" WC
- BLOWER INFLUENT VAC - 58" WC

SYSTEM OPERATING UPON DEPARTURE.

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 6/27/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature: 90

Air Monitoring Equipment Unit No. N/A

Date Calibrated: N/A

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: N/A cfm

Record CATOX Temperatures: T1: 385 T2: 364 T3: 384

System Sampling YES

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No EMPTY

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No (NO CORROSION)

SVE1 PID - 282 ppm
SVE1 FLOW - 0.0 CFM
BLOWER EFF. FLOW - 9.10 CFM
BLOWER ~~PR~~ EFF. PRESSURE - 9" WC,
- SITE IS CLEAN
- AIR FILTER - O.K
- SYSTEM OPERATING UPON DEPARTURE

ALEX

100 Oser Avenue Site Visit Form

Tech Name: A. PANTELEIKO

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Visit Date: 7/03/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 89

Air Monitoring Equipment Unit No. _____

Date Calibrated: _____

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: _____ cfm

Record CATOX Temperatures: T1: 390 T2: 374 T3: 389

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 5 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (belts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisure separator: (Yes) No EMPTY

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM IS OPERATING UPON ARRIVAL
- AIR FILTER - O.K
- KNOCKOUT - EMPTY
- SITE IS CLEAN.
- SVE PID - 384 ppm
- BLOWER EF PID - 24 ppm
- STACK PID - 11 ppm
- BLOWER EF PRESSURE - 11" WC

SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: B. PARTELOW

Visit Date: 7/11/02

Weather: Rain (Snow) Sunny Cloudy Blizzard Temperature 85

Air Monitoring Equipment Unit No. _____

Date Calibrated: _____

System Check

Perform once a month

Is System running upon arrival? Yes (No)

Record Influent flowrate: _____ cfm

Record CATOX Temperatures: T1: 380 T2: 371 T3: 379

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (belts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No EMPTY

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM IS NOT OPERATING UPON ARRIVAL.
- SYSTEM RESTARTED - O.K
- STEADY BLOWER OPERATION.
- DILUTION VALVE - 50% OPEN.
- SVE PID - 86 ppm
- BLOWER EFF PID - 0.7 ppm
- SVE VAC - 0.81" WC
- BLOWER EFF PR. - 10" WC
- STACK PID - 0.0 ppm
- BLOW. EF. FLOW - 24.6 CFM.

SYSTEM OPER. UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 7/18/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 94

Air Monitoring Equipment Unit No. _____

Date Calibrated: _____

System Check

Perform once a month

Is System running upon arrival? Yes (No)

Record Influent flowrate: _____ cfm

Record CATOX Temperatures: T1: 395 T2: 380 T3: 390

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (belts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) — PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No EMPTY

Catalytic Oxidation Unit (Each Visit) — PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No

SYSTEM NOT OPERATING UPON ARRIVAL.
- AIR FILTER - O.K, BLOWER CHECK - O.K.
- SITE IS CLEAN, DILUTION VALVE - 50%.
- SVE PID - 224 ppm.
- SVE FLOW - 184 CFM
- SVE VAC - 0.64" WC
- BLOWER EFF - 12" WC
- STACK PID - 3.8 ppm
- BLOWER ILF VAC - 58" WC.

SYSTEM OPERATING UPON DEPARTURE.

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: ALEX PARTELEIRO

Visit Date: 7/24/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 85

Air Monitoring Equipment Unit No. N/A

Date Calibrated: N/A

System Check

Perform once a month

Is System running upon arrival? Yes (No)

Record Influent flowrate: N/A cfm

Record CATOX Temperatures: T1: 382 T2: 374 T3: 584

System Sampling O.K

Perform once a month

Sample Influent: charcoal tubes Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: Yes (No) (EMPTY)

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM NOT OPERATING UPON ARRIVAL.
RESTARTED - O.K.
UNABLE TO TAKE PID, FLOW READINGS
BECAUSE EQUIPMENT WAS STOLEN.
SYSTEM OPERATING UPON DEPARTURE

ALEX

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 7/30/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 95

Air Monitoring Equipment Unit No. 410

Date Calibrated: 7/2 7/2

System Check

Perform once a month

Is System running upon arrival? Yes (No) RESTARTED - O.K

Record Influent flowrate: n/a cfm

Record CATOX Temperatures: T1: 382 T2: 374 T3: 386

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No) FILTER - O.K

Moisture Separator (Each Visit) **PERFORM WEEKLY**

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No) NO CRACKS

Empty moisture separator: (Yes) No (EMPTY)

Catalytic Oxidation Unit (Each Visit) **PERFORM WEEKLY**

Check Stack for corrosion (each Visit): (Yes) No (NO CORROSION)

SYSTEM NOT OPERATING UPON ARRIVAL
SYSTEM RESTORTED - O.K.
AIR FILTER - O.K
MOISTURE SEPARATOR - EMPTY
WELL HEAD PID - 296 ppm.
STACK EFFLUENT PID - 0.0 PPM.
BLOWER EFFL. PRESSURE - 8" WC.
SYSTEM OPERATING UPON DEPARTURE.

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 8/8/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 85

Air Monitoring Equipment Unit No. 4/8 4/14 4/10

Date Calibrated:

System Check

Perform once a month

Is System running upon arrival? Yes (No)

Record Influent flowrate: 4/12 cfm

Record CATOX Temperatures: T1: 383 T2: 379 T3: 384

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (belts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: Yes (No) (EMPTY)

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No W/O CORROSION,

SYSTEM NOT OPERATING UPON ARRIVAL
- RESTARTED - O.K.
WELLHEAD PID - 475ppm.
BLOWER EFFL. PID - 0.7ppm
STACK EFFL. PID - 3.5ppm
BLOWER EFF. PRESS - 10" W.C
BLOWER INF. VAC - 58" W.C
BLOWER EFFL. FLOW - 27 C.F.M
SYSTEM OPERATING UPON DEPARTURE.

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIVO

Visit Date: 8/15/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 85

Air Monitoring Equipment Unit No. N/A

Date Calibrated: N/A

System Check

Perform once a month

Is System running upon arrival? Yes (No)

Record Influent flowrate: N/A cfm

Record CATOX Temperatures: TI: 380 T2: 190 T3: 373

System Sampling NOT SAMPLED.

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: (Yes) No

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No (EMPTY).

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No (NO CORROSION)

- SYSTEM NOT OPERATING UPON ARRIVAL.
- CATOX TOP LID OPEN FOR CLEARING. ½ LB SOLIDS REMOVED FROM CATOX EFFLUENT TO STACK LOCATION. SYSTEM RESTARTED. SHUT DOWN IN 30 min. MADE PHONE CALL TO FALLMOUTH. CUSTOMER SERVISE AND DID TROUBLESHOOTING OF CATOX BED, DIRTY CONTACTS FOUND IN T3 CONTROLLER. CONTA CLEANED. SYSTEM RESTARTED. TI - 389, T2 - 374 -, T3 - 39
WELLHEAD PID - 596 ppm
STACK EFF — 180 ppm
WELLHEAD — 0.8" WC
BLOWER EFFLOW - 32 CFM.
~~SYST~~ LEFT FOR 2 HOURS, CAME BACK - SYSTEM OPERATING

SYSTEM OPERATING UPON DEPARTURE.

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PARTELEIKO

Visit Date: 8/28/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 80

Air Monitoring Equipment Unit No. N/A

Date Calibrated: N/A

P.S. MAIN VAPOR VALVE ADJUSTED — STACK EFFLUENT PID IS — 7.2 ppm, SVE 1 FLOW — 16 CFM.

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: N/A cfm

Record CATOX Temperatures: T1: 401 T2: 372 T3: 380

System Sampling (N/A)

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: (Yes) No

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: Yes (No) (EMPTY)

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM OPERATING UPON ARRIVAL. AIR, WATER, LAND APPROVED ATS FOR SVE CLEARING. SYSTEM SHUT OFF FOR SVE CLEAN. 600 GAL OF WATER USED. DRILLERS FAMIL. WITH HASP AND SIGNED THE AGREEMENT. PID AT WORKING ZONE 0.0 PID AT WELL HEAD — 2.4 ppm.

SVE-1 WELL SCREEN CLEANED — O.K.

MOISTURE SEPAR. — EMPTY

SVE1-GAUGED: TWD — 15'2"
DTW — 14'6"

BLOWER EFFLUENT PRESSURE — 21" wc

BLOWER EFFLUENT FLOW — 103 CFM

DILUTION VALVE — 50% OPEN CFM

WELLHEAD PID — 374 ppm

STACK EFFLUENT — 49 ppm

BLOWER EFFL. PID — 27 ppm

WELL HEAD FLOW — 32 CFM.

WELL HEAD VACUUM — 0.24" WC

SYSTEM OPERATING UPON [redacted]

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 9/5/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 85

Air Monitoring Equipment Unit No. N/A

Date Calibrated: 9/5/02

System Check

Perform once a month

Is System running upon arrival? Yes (No)

Record Influent flowrate: N/A cfm

Record CATOX Temperatures: T1: 376 T2: 371 T3: 396

System Sampling (QUARTERLY)

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No) FILTER - O.K

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No (≈ 30 GAL DRAINED)

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM NOT OPERATING UPON ARRIVAL DUE TO HIGH LEVEL IN KNOCKOUT DRUM. ≈ 30 GAL DRAINED
SYSTEM RESTARTED - O.K.
SVE/ FLOW - 19.5 CFM
BLOWER EFFLUENT FLOW - 109 CFM
DILUTION VALVE - 50% OPEN
MAIN VAPOR VALVE - 10% OPEN.
SVE/ VACUUM - 0.42" WC
BLOWER EFFLUENT PRESSURE - 22" WC.
SVE/ PID - 75 PPM
STACK EFFLUENT PID - 8 PPM SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEINO

Visit Date: 9/12/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 68

Air Monitoring Equipment Unit No. n/a

Date Calibrated: n/a

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: n/a cfm

Record CATOX Temperatures: T1: 380 T2: 380 T3: 401

System Sampling n/a

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture seperator: (Yes) No

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION.

SYSTEM IS OPERATING UPON ARRIVAL
- AIR FILTER - O.K
- ~3GAL. DRAINED FROM KNOCK OUT DRUM.
- SVE FLOW 17.2 CFM
- BLOWER EFFLUENT FLOW 122 CFM.
- DILUTION VALVE OPEN 50%
- MAIN VAPOR [illegible] VALVE - 10% OPEN
- SVE VACUUM - 0.38" WC
- SVE PID - 113 ppm
- STACK EF. PID - 9.2 ppm
- BLOWER EF. PRESSE - 22" WC.

SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: B. FRITZ

Visit Date: 9-19-02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 70°

Air Monitoring Equipment Unit No. PHOTO VAC 2020

Date Calibrated: ~~~~

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: NA cfm

Record CATOX Temperatures: TI: 381 T2: 375 T3: 399

System Sampling

Perform once a month

Sample Influent: charcoal tubes NA — Measure once per month using a PID and Flow Meter — NO SAMPLING THIS VISIT

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) — PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No — DRAINED APPROX ½ GAL.

Catalytic Oxidation Unit (Each Visit) — PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No

- AIR FILTER CHECK OK
- FLOW - SVE - 15.5 FT3/MIN
- FLOW BLOWER EFFLUENT - 59.0 FT3/MIN
- DILUTION VALVE OPEN 50%
- SVE VACUUM - .12" WC
- SVE PID - 20.4 PPM
- EFF. STACK PID - 1.7 PPM
- BLOWER EFF. PRESSURE - 1.0 PSF
- SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: B FRITZ

Visit Date: 9-26-02

Weather: (Rain) Snow Sunny Cloudy Blizzard Temperature 69°

Air Monitoring Equipment Unit No. PHOTOVAC 2020

Date Calibrated: ____

System Check

Perform once a month

Is System running upon arrival? (yes) No

Record Influent flowrate: N/A cfm

Record CATOX Temperatures: TI: 380 T2: 376 T3: 399

System Sampling

Perform once a month

Sample Influent:	charcoal tubes	NA	Measure once per month using a PID and Flow Meter
Sample Effluent:	charcoal and silica tubes		Measure once per month using a PID and Flow Meter
Sample Building Interior Vapor Points:	6 locations charcoal		Measure once per month using a PID

NO SAMPLING THIS VISIT

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) **PERFORM WEEKLY**

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No 1 GAL drained

Catalytic Oxidation Unit (Each Visit) **PERFORM WEEKLY**

Check Stack for corrosion (each Visit): (Yes) No

- Blower eff. Flow – 64.0 FT³/min
- Blower eff. STAK – 0.0 PPM
- Blower eff. PSI – 1.5 PSI

- SVE Flow – 15.45 FT³/MIN
  VAC – .14" WC
  PID – 28.8 PPM
- dilution valve 50%

System operating upon departure

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. PANTELEIKO

Visit Date: 10/03/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 80

Air Monitoring Equipment Unit No.

Date Calibrated:

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: N/A. cfm

Record CATOX Temperatures: T1: 380 T2: 374 T3: 398

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No ~~EMPTY~~ (3GAL DRAINED)

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION.

SYSTEM OPERATING UPON ARRIVAL

- AIR FILTER - O.K.
- KNOCK OUT - ~~EMPTIED~~ 3 GAL DRAIN.
- SVE VACUUM - 0.18" WC.
- SVE FLOW - 15.5 CFM.
- SVE PID - 222 PPM
- STACK EFFLUENT - 5.6 PPM
- BLOWER EFFLUENT PRESSURE - 10" WC

SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM O&M and SAMPLE COLLECTION

Tech Name: A. RANTELEIRO

Visit Date: 10/10/02

Weather: Rain Snow Sunny (Cloudy) Blizzard Temperature 65

Air Monitoring Equipment Unit No. [redacted]

Date Calibrated: [redacted]

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record Influent flowrate: n/a cfm

Record CATOX Temperatures: T1: 389 T2: 378 T3: 400

System Sampling YES

Perform once [redacted] QUARTER.

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (belts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No ~ 3 GAL.

Catalytic Oxidation Unit (Each Visit) PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION.

SYSTEM OPERATING UPON ARRIVAL.
- AIR FILTER - O.K
- KNOCK OUT - ~3 GALLONS.
- SVE VACUUM - 0.22" WC
- SVE FLOW - 18.2 CFM
- SVE PID - [redacted] 186 APM
- STACK EFFLUENT - 7.2 PPM
- BLOWER EFFLUENT PRESSE - 11" WC.
- DILUTION VALVE - 50% OPEN.

SYSTEM GAUGED - O.K

SYSTEM OPERATING UPON DEPARTURE

100 Oser Avenue Site Visit Form

Tech Name: A. PARTELLI'S

USE THIS FORM FOR BOTH THE WEEKLY SITE SYSTEM VISIT AND MONTHLY SYSTEM CEM and SAMPLE COLLECTION

Visit Date: 10/31/02

Weather: Rain Snow (Sunny) Cloudy Blizzard Temperature 45

Air Monitoring Equipment Unit No. _____

Date Calibrated: _____

System Check

Perform once a month

Is System running upon arrival? (Yes) No

Record influent flowrate: _____ cfm

Record CATOX Temperatures: T1: 391 T2: 378 T3: 403

System Sampling

Perform once a month

Sample Influent: charcoal tubes — Measure once per month using a PID and Flow Meter

Sample Effluent: charcoal and silica tubes — Measure once per month using a PID and Flow Meter

Sample Building Interior Vapor Points: 6 locations charcoal — Measure once per month using a PID

System Maintenance

Blower (Monthly)

Change Oil: Yes (No)

Grease Vent Blower: Yes (No)

Inspect and tighten loose belts: (Yes) No (bolts ok)

Check air filter and replace if necessary: (Yes) No Replace: Yes (No)

Moisture Separator (Each Visit) — PERFORM WEEKLY

Inspect moisture separator for cracks: (Yes) No Repair: Yes (No)

Empty moisture separator: (Yes) No 2 4GAL

Catalytic Oxidation Unit (Each Visit) — PERFORM WEEKLY

Check Stack for corrosion (each Visit): (Yes) No NO CORROSION

SYSTEM OPERATING UPON ARRIVAL
- AIR FILTER - O.K
- STEADY BLOWER OPERATION.
- SITE IS CLEAN.
- KNOCK OUT - 4 GAL DRAINED
- SVE VAC - 0.28" WC
- SVE FLOW - 22.4 CFM
- PID IS NOT WORKING
- BLOWER EFFLUENT PRESSURE - 12" WC
- GATE IS LOCKED WITH DOOR LOCK - O.K

SYSTEM OPERATING UPON DEPARTURE.

APPENDIX B

LABORATORY ANALYTICAL RESULTS

Adirondack Environmental Services, Inc.
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Route To:

JUL 1 6

LABORATORY REPORT

for

Shaw Env. & Infrastructure Inc
13 British American Blvd.
Albany, NY 12110

Attention: Saul Ash

Report date: 07/15/02
Number of samples analyzed: 16
AES Project ID: 020701HA
Invoice #: 244030

ELAP ID#: 10709

AIHA ID#: 100307

Adirondack Environmental Services, Inc.
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 1
AES sample #: 020701HA01
Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.48	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<6.8	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 2
AES sample #: 020701HA02 Samples taken by: P.Alex
MATRIX: Air

Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.21	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<8.3	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 3
AES sample #: 020701HA03
Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.51	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<6.6	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 4
AES sample #: 020701HA04
Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.69	liters	CLIENT	06/27/02
Perchloroethylene		Niosh-1003	<5.9	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 5
AES sample #: 020701HA05
Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.33	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<7.5	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 6
AES sample #: 020701HA06
Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.28	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<7.8	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: SG 4
AES sample #: 020701HA07 Samples taken by: P.Alex
MATRIX: Air

Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.20	liters	CLIENT	06/27/02
Perchloroethylene		Niosh-1003	<8.3	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: SG 1
AES sample #: 020701HA08 Samples taken by: P.Alex
MATRIX: Air

Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.18	liters	CLIENT	06/27/02
Perchloroethylene		Niosh-1003	<8.5	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Well Head
AES sample #: 020701HA09 Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.27	liters	CLIENT	06/27/02
Perchloroethylene		Niosh-1003	<7.9	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Blower Influent
AES sample #: 020701HA10 Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.27	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	251	mg/m3	TN-GCA-D37	07/01/02

Adirondack Environmental Services, Inc.
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Blower Effluent
AES sample #: 020701HA11 Samples taken by: P.Alex
MATRIX: Air

Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.39	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<7.2	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Catox Effluent
AES sample #: 020701HA12 Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.33	liters	CLIENT	06/27/02
Perchloroethylene	Niosh-1003	<7.5	mg/m3	TN-GCA-D37	07/01/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Field Blank
AES sample #: 020701HA13 Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
grab

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.44	liters	CLIENT	06/27/02
Perchloroethylene		Niosh-1003	<6.9	mg/m3	TN-GCA-D37	07/01/02

Results for Field Blank calculated based on client supplied air volumes at client's request.

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Catox Effluent
AES sample #: 020701HA14 Samples taken by: P.Alex
MATRIX: Air

Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		3.18	liters	CLIENT	06/27/02
Hydrochloric Acid	Niosh-7903	1.9	mg/m3	SH-IC-H-87	07/15/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Field Blank
AES sample #: 020701HA15 Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
grab

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			3.21	liters	CLIENT	06/27/02
Hydrochloric Acid		Niosh-7903	<1.3	mg/m3	SH-IC-H-87	07/15/02

Results for Field Blank calculated based on client supplied air volumes at client's request.

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Detection Limits
AES sample #: 020701HA16
Samples taken by: P.Alex
MATRIX: Air
Date Sampled: 06/27/02
Date sample received: 07/01/02
Location: 100 Oser Ave.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Hydrochloric Acid	Niosh-7903	4	ug	SH-IC-H-87	07/15/02
Perchloroethylene	Niosh-1003	10	ug	TN-GCA-D37	07/01/02

The sample(s) submitted have been corrected for the blank result as specified in the method.

The results are calculated based on the client supplied air volumes.

The results relate only to the items tested.

APPROVED BY:
Report date: 07/15/02
Christopher Hess
Quality Assurance Manager

Adirondack Environmental Services, Inc.®
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

020701 HA

REQUEST FOR INDUSTRIAL HYGIENE ANALYSIS

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
SHAW E&I	100 OSEK AVE	MATTEIKO ALEX
ADDRESS 101 COLUMBIA TURNPIKE ROOSEVELT, N.Y.	PO NUMBER	SAMPLERS' (Signatures)

AES SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME A = A.M. P = P.M.		MEDIA TYPE/ MATRIX	NO. OF CONT'S	TOTAL SAMPLING TIME (MIN.)	AIR SAMPLE VOLUME (LITERS)	ANALYSIS REQUESTED
020701 HA01	FSG1	6/27/02	1.30	A (P)	CHARCOAL TUBE	1	6	1.48	PCE BY NIOSH1003
HA02	FSG2	6/27/02	1.45	A (P)	CHARCOAL TUBE	1	6	1.21	PCE BY NIOSH1003
HA03	FSG3	6/27/02	2.00	A (P)	CHARCOAL TUBE	1	6	1.51	PCE BY NIOSH1003
HA04	FSG4	6/27/02	2.35	A (P)	CHARCOAL TUBE	1	6	1.69	PCE BY NIOSH1003
HA05	FSG5	6/27/02	3.05	A (P)	CHARCOAL TUBE	1	6	1.33	PCE BY NIOSH1003
HA06	FSG6	6/27/02	3.40	A (P)	CHARCOAL TUBE	1	6	1.28	PCE BY NIOSH1003
HA07	SG4	6/27/02	4.10	A (P)	CHARCOAL TUBE	1	6	1.20	PCE BY NIOSH1003
HA08	SG1	6/27/02	4.25	A (P)	CHARCOAL TUBE	1	6	1.18	PCE BY NIOSH1003
HA09	WELL HEAD	6/27/02	4.55	A (P)	CHARCOAL TUBE	1	6	1.27	PCE BY NIOSH1003
HA10	BLOWER HOUSE	6/27/02	5.15	A (P)	CHARCOAL TUBE	1	6	1.27	PCE BY NIOSH1003
HA11	BLOWER OFFICE	6/27/02	5.30	A (P)	CHARCOAL TUBE	1	6	1.39	PCE BY NIOSH1003
HA12	CATWALK	6/27/02	6.[illegible]	A (P)	CHARCOAL TUBE	1	6	1.33	PCE BY NIOSH1003
HA13	FIELD BLANK	6/27/02	6.15	A (P)	CHARCOAL TUBE	1	6	1.44	PCE BY NIOSH1003
				A P					

SEND REPORT TO	SEND INVOICE TO	COMMENTS
SAUL ASH	SAUL ASH	

TURN-AROUND TIME — PLEASE CHECK ALL THAT APPLY

- ☒ *STANDARD SERVICE
- ☐ *RUSH SERVICE — Results requested by: _____
- ☐ FAX RESULTS TO: _____ FAX # ( ) -
- ☐ PHONE RESULTS TO: _____ PH # ( ) -

*Turn-around time varies by substance. For most substances, standard turn-around time is ten (10) working days. Please inquire for capacity of rush analysis.

LABORATORY APPROVAL	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
			M. [illegible]	7/1/02	10[illegible]

CHAIN OF CUSTODY

RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE	TIME
[illegible]		6/27/02	17:00
RELINQUISHED BY (Signature)	**RECEIVED BY (Signature)**	**DATE**	**TIME**

WHITE — Lab Copy YELLOW — Sampler Copy PINK — Generator Copy

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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Albany, New York 12207
518-434-4546/434-0891 FAX

020701 HA

REQUEST FOR INDUSTRIAL HYGIENE ANALYSIS

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
SHAW E & I	100 OSER AVE	ALEX FANTELEIKO
ADDRESS	**PO NUMBER**	**SAMPLERS' (Signatures)**
101-1 COLIN DR, HOLBROOK N.Y		

AES SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME A = A.M. P = P.M.	MEDIA TYPE/ MATRIX	NO. OF CONT'S	TOTAL SAMPLING TIME (MIN.)	AIR SAMPLE VOLUME (LITERS)	ANALYSIS REQUESTED
020701HA14	CITY SAMPLE	6/27/02	6:30 A/P	AIR	1	15	3.18	HCL & NIOSH 7903
HA15	FIELD BLANK	6/27/02	6:50 A/P	SAME	1	15	3.21	HCL BY NIOSH 7903
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					

SEND REPORT TO	SEND INVOICE TO	COMMENTS
SAUL ASH	SAUL ASH	

TURN-AROUND TIME — PLEASE CHECK ALL THAT APPLY

- ☒ *STANDARD SERVICE
- ☐ *RUSH SERVICE — Results requested by: _____
- ☐ FAX RESULTS TO: _____ FAX # ( ) -
- ☐ PHONE RESULTS TO: _____ PH # ( ) -

*Turn-around time varies by substance. For most substances, standard turn-around time is ten (10) working days. Please inquire for capacity of rush analysis.

LABORATORY APPROVAL	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
			M	7/1/02	10⁰⁰

CHAIN OF CUSTODY

RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE	TIME
		6/28/02	1900
RELINQUISHED BY (Signature)	**RECEIVED BY (Signature)**	**DATE**	**TIME**

WHITE — Lab Copy YELLOW — Sampler Copy PINK — Generator Copy

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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Route To:
AUG 05
1 Oser Ave
8A

LABORATORY REPORT

for

Shaw Env. & Infrastructure Inc
13 British American Blvd.
Albany, NY 12110

Attention: Saul Ash

Report date: 08/02/02
Number of samples analyzed: 16
AES Project ID: 020725HC
Invoice #: 244957

ELAP ID#: 10709

AIHA ID#: 100307

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 3
AES sample #: 020725HC01
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.21	liters	CLIENT	07/24/02
Perchloroethylene		Niosh-1003	22,110	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 4
AES sample #: 020725HC02
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.21	liters	CLIENT	07/24/02
Perchloroethylene		Niosh-1003	1694	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 5
AES sample #: 020725HC03 Samples taken by: P .Alex
MATRIX: Air

Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.218	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	1117	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 6
AES sample #: 020725HC04
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.21	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	1579	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 1
AES sample #: 020725HC05
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.254	liters	CLIENT	07/24/02
Perchloroethylene		Niosh-1003	300	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Well Head
AES sample #: 020725HC06 Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.266	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	1430	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Blower Infl.
AES sample #: 020725HC07
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.218	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	2217	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Blower Eff.
AES sample #: 020725HC08
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.218	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	61	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Catox Effluent
AES sample #: 020725HC09 Samples taken by: P .Alex
MATRIX: Air

Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.21	liters	CLIENT	07/24/02
Perchloroethylene		Niosh-1003	474	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: SG 4
AES sample #: 020725HC10
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.224	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	1789	mg/m3	TN-TG-D-37	07/25/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: SG 1
AES sample #: 020725HC11
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.272	liters	CLIENT	07/24/02
Perchloroethylene		Niosh-1003	7870	mg/m3	TN-TG-D-37	07/25/02

Adirondack Environmental Services, Inc.
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 2
AES sample #: 020725HC12
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.224	liters	CLIENT	07/24/02
Perchloroethylene		Niosh-1003	242	mg/m3	TN-TG-D-37	07/25/02

Adirondack Environmental Services, Inc.
Experience is the solution
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Field Blank
AES sample #: 020725HC13
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.254	liters	CLIENT	07/24/02
Perchloroethylene	Niosh-1003	<8	mg/m3	TN-TG-D-37	07/25/02

Results for Field Blank calculated based on client supplied air volumes at client's request.

Adirondack Environmental Services, Inc.
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Catox Effluent
AES sample #: 020725HC14
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			3.03	liters	CLIENT	07/24/02
Hydrochloric Acid		Niosh-7903	2.5	mg/m3	SH-IC-H-98	07/31/02

Adirondack Environmental Services, Inc.
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Field Blank
AES sample #: 020725HC15 Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		3.03	liters	CLIENT	07/24/02
Hydrochloric Acid	Niosh-7903	<1.4	mg/m3	SH-IC-H-98	07/31/02

Results for Field Blank calculated based on client supplied air volumes at client's request.

Adirondack Environmental Services, Inc.
Experience is the solution
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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Detection Limits
AES sample #: 020725HC16
Samples taken by: P .Alex
MATRIX: Air
Date Sampled: 07/24/02
Date sample received: 07/25/02
Location: Oser Ave.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Hydrochloric Acid	Niosh-7903	4	ug	SH-IC-H-98	07/31/02
Perchloroethylene	Niosh-1003	10	ug	TN-TG-D-37	07/25/02

The sample(s) submitted have been corrected for the blank result as specified in the method.

The results are calculated based on the client supplied air volumes.

The results relate only to the items tested.

APPROVED BY:
Report date: 08/02/02
Christopher Hess
Quality Assurance Manager

020725 HC 1 2

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

REQUEST FOR INDUSTRIAL HYGIENE ANALYSIS

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
SHAW E&I	OSER AVE	PANTELEIKO ALEX
ADDRESS	**PO NUMBER**	**SAMPLERS' (Signatures)**
101-1 COLIN DR HOLBROOK. N.Y		

AES SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME A = A.M. P = P.M.	MEDIA TYPE/ MATRIX	NO. OF CONT'S	TOTAL SAMPLING TIME (MIN.)	AIR SAMPLE VOLUME (LITERS)	ANALYSIS REQUESTED
[illegible]	FSG 3 (HC01)	07/24/02	12.35 A (P)	CHARCOAL TUBE	1	6	1.21	PCE BY NIOSH
	FSG 4 (HC02)		12.55 A (P)		1	6	1.21	
HC03	FSG 5		13.15 A (P)		1	6	1.218	
HC04	FSG 6		13.35 A (P)		1	6	1.21	
HC05	FSG 1		13.55 A (P)		1	6	1.254	
HC06	WELLHEAD		14.15 A (P)		1	6	1.266	
HC07	BLOWER INFL.		14.30 A (P)		1	6	1.218	
HC08	BLOWER EFF.		14.50 A (P)		1	6	1.218	
HC09	CATOX EFFLUENT		15.20 A (P)		1	6	1.21	
HC10	SG 4		15.35 A (P)		1	6	1.224	
HC11	SG 1		15.55 A (P)		1	6	1.272	
HC12	FSG 2		16.15 A (P)		1	6	1.224	
HC13	FIELD BLANC		16.30 A (P)		1	6	1.254	
			A (P)					

SEND REPORT TO	SEND INVOICE TO	COMMENTS
SAUL ASH	SAUL ASH	

TURN-AROUND TIME — PLEASE CHECK ALL THAT APPLY

- [x] *STANDARD SERVICE
- [ ] *RUSH SERVICE — Results requested by: _____
- [ ] FAX RESULTS TO: _____ FAX # ( ) -
- [ ] PHONE RESULTS TO: _____ PH # ( ) -

*Turn-around time varies by substance. For most substances, standard turn-around time is ten (10) working days. Please inquire for capacity of rush analysis.

LABORATORY APPROVAL	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
			M. [illegible]	7/25/02	1005

CHAIN OF CUSTODY

RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE	TIME
PANTELEIKO ALEX		7/24/02	17.00
RELINQUISHED BY (Signature)	**RECEIVED BY (Signature)**	**DATE**	**TIME**

WHITE — Lab Copy YELLOW — Sampler Copy PINK — Generator Copy

The laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

020725 HC

22

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

REQUEST FOR INDUSTRIAL HYGIENE ANALYSIS

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
SITAWE FT	100 SER AVE	ALEX PANTELEIKO
ADDRESS	**PO NUMBER**	**SAMPLERS' (Signatures)**
101-1 COLIN DR HOLBROOK. N.Y		

AES SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME A = A.M. P = P.M.	MEDIA TYPE/ MATRIX	NO. OF CONT'S	TOTAL SAMPLING TIME (MIN.)	AIR SAMPLE VOLUME (LITERS)	ANALYSIS REQUESTED
020725 HC14	CATOX EFFLUENT	7/24/02	16.55 A (P)	SILICA TUBE	1	15	3.03	HCL BY NIOSH
HC15	FIELD BLANC	7/24/02	17.30 A (P)	SILICA TUBE	1	15	3.03	HCL BY NIOSH
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					

SEND REPORT TO	SEND INVOICE TO	COMMENTS
SAUL ASH	SAUL ASH	

TURN-AROUND TIME — PLEASE CHECK ALL THAT APPLY

- [x] *STANDARD SERVICE
- [ ] *RUSH SERVICE — Results requested by: _____
- [ ] FAX RESULTS TO: _____ FAX # ( ) -
- [ ] PHONE RESULTS TO: _____ PH # ( ) -

*Turn-around time varies by substance. For most substances, standard turn-around time is ten (10) working days. Please inquire for capacity of rush analysis.

LABORATORY APPROVAL	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
			M L	7/25/02	1005

CHAIN OF CUSTODY

RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE	TIME
		7/24/02	17.00
RELINQUISHED BY (Signature)	**RECEIVED BY (Signature)**	**DATE**	**TIME**

WHITE — Lab Copy YELLOW — Sampler Copy PINK — Generator Copy

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

Route To: Drew Graham

AUG 14

Dept:

Adirondack Environmental Services, Inc.

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LABORATORY REPORT

MATERIALS TESTING: SEM/EDXRF and XRD PARTICULATE

08/08/2002 Attn: Drew Graham

Shaw E&I
13 British American Blvd.
Latham, New York 12110

AES Report No. 020724LE

Filename: C:\My Documents\shaw edxrf.wpd

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ABSTRACT

One bulk specimen designated STACK PRECIPITATE was submitted for particulate analysis using scanning electron microscopy (SEM) with energy dispersive x-ray fluorescence (EDXRF) spectroscopy and x-ray diffraction (XRD) techniques. The purpose of the analysis was to provide elemental composition and chemical compound analysis.

TEST RESULTS

The following observations were noted during SEM/EDXRF and XRD analysis:

1. The STACK PRECIPITATE specimen appeared as white and yellow particle aggregates. The sample was prepared for analysis using a mortar and pestle to provide a homogeneous powder.

2. The EDXRF data obtained from the specimen reported aluminum and chlorine concentrations with traces of sodium, silicon, iron and chromium.

3. The semi-quantitative elemental data is provided as elemental distributions and as forced oxide concentrations following stoichiometric conversion.

4. Further analytical results from x-ray diffraction examination indicates that the precipitate is a complex mixture of at least six major compounds as well as several minor and/or trace compounds which were not identified.

5. The XRD search/match data indicates the presence of (1) Aluminum Chlorate, (2) Aluminum Chloride Hydroxide Hydrate, (3) Silicon Oxide - Tetragonal, (4) Sodium/Aluminum Silicates, (5) Sodium Aluminum Oxide Chloride, and (6) Sodium Aluminum Chloride Hydrate.

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TEST DATA

ENERGY DISPERSIVE X-RAY PROFILES

X-RAY DIFFRACTION SPECTRA

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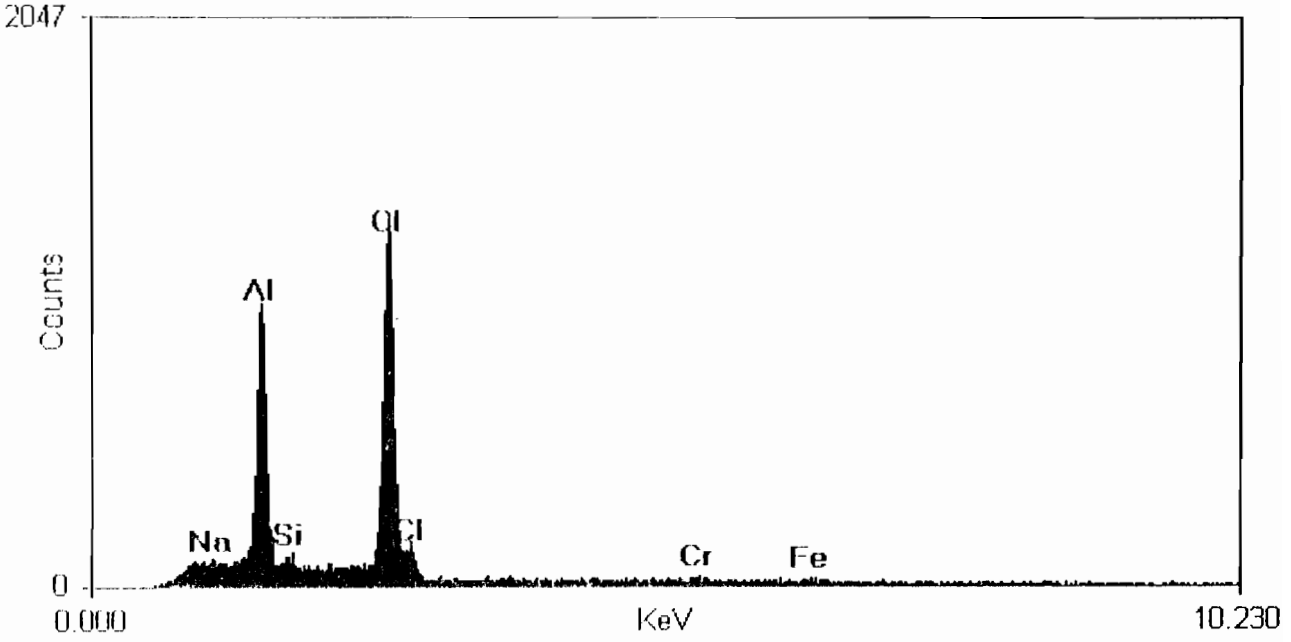

SHAW: Stack Precipitate Sample

Quantitative Analysis Results - Standardless Analysis:
Spectrum 1 - SHAW: Stack Precipitate Sample 25-Jul-2002
EDS Parameters - 25KeV, Takeoff Angle: 56°, Fit Index: 1.36
Correction: ZAF, Cycles: 3

element	line	kratio	error	zaf	weight	error (+/-)	ovolt
Na	Ka:EDS	-0.0067	0.0039*	0.5386	<0.0078	0.0039	23.37
Al	Ka:EDS	0.3622	0.0062	0.8273	0.3665	0.0075	16.02
Si	Ka:EDS	0.0100	0.0025	0.5740	0.0148	0.0044	13.58
Cl	Ka:EDS	0.5919	0.0094	0.8143	0.5904	0.0115	8.84
Cr	Ka:EDS	0.0144	0.0050	0.8598	0.0142	0.0059	4.18
Fe	Ka:EDS	0.0148	0.0064	0.8900	0.0142	0.0072	3.52
Totals					1.0000		

* = 2 Sigma

element	atoms	compound	wt%	error% (+/-)	norm%
Al	6.53	Al	36.65	0.62	36.65
Si	0.25	Si	1.48	0.25	1.48
Cl	8.00	Cl	59.04	0.94	59.04
Cr	0.13	Cr	1.42	0.50	1.42
Fe	0.12	Fe	1.42	0.64	1.42
Totals	15.03		100.00		100.00

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Quantitative Analysis Results - Standardless Analysis:
Spectrum 1 - SHAW: Stack Precipitate Sample 25-Jul-2002
EDS Parameters - 25KeV, Takeoff Angle: 56°, Fit Index: 1.36
Correction: ZAF, Cycles: 3

element	line	kratio	error	zaf	weight	error (+/-)	ovolt
Na	Ka:EDS	-0.0067	0.0039*	0.4116	<0.0078	0.0039	23.37
Al	Ka:EDS	0.3622	0.0062	0.6971	0.2634	0.0089	16.02
Si	Ka:EDS	0.0100	0.0025	0.5792	0.0095	0.0044	13.58
Cl	Ka:EDS	0.5919	0.0094	0.8040	0.3709	0.0116	8.84
Cr	Ka:EDS	0.0144	0.0050	0.8481	0.0094	0.0059	4.18
Fe	Ka:EDS	0.0148	0.0064	0.8654	0.0095	0.0074	3.52
O	(difference)			0.3373			
<total>					1.0000		

* =< 2 Sigma

element	atoms	compound	wt%	error% (+/-)	norm%
Al	0.46	Al2O3	49.78	1.18	49.78
Si	0.02	SiO2	2.04	0.54	2.04
Cl	0.50	Cl2O	45.46	1.15	45.46
Cr	0.01	Cr2O3	1.37	0.74	1.37
Fe	0.01	Fe2O3	1.36	0.92	1.36
O	1.00	(residual)	-0.00		
<total>	1.99		100.00		100.00

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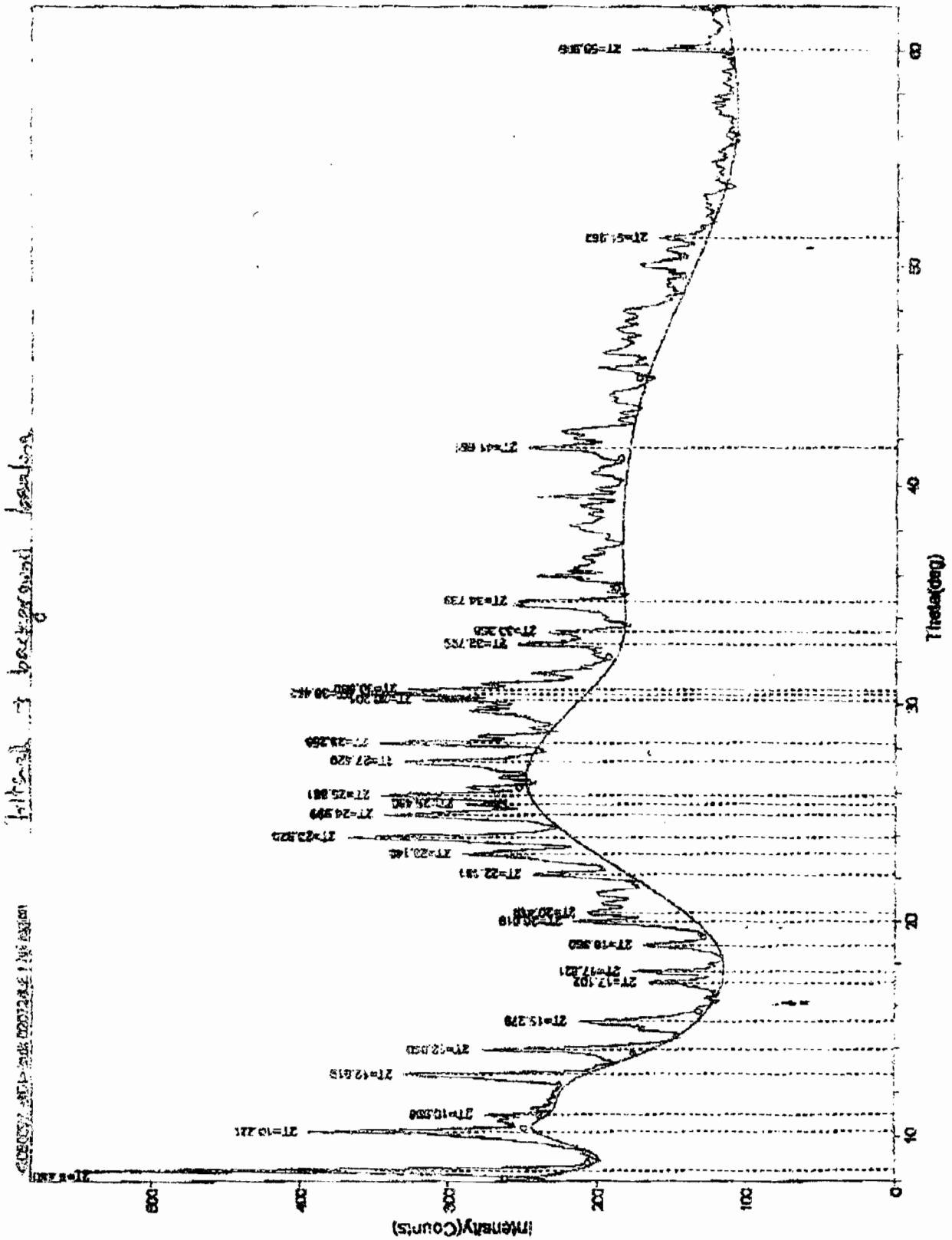

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TEST METHODS

Scanning electron microscopy provides images formed by rastering a beam of electrons over the specimen surface and, using an electron or x-ray detector, records secondary, backscattered or x-ray signals. The images formed provide high resolution (20 Angstrom) with magnifications of 15 to 200,000 diameters. In addition to secondary and backscattered electrons, characteristic x-rays are also emitted during electron beam/sample surface interactions.

Energy dispersive x-ray fluorescence spectroscopy using a conventional silicon-lithium detector is capable of analyzing elemental concentrations from atomic number 9 (fluorine) through 94 (plutonium) as they appear on the Periodic Table of Elements. The integral counts beneath the peaks are processed through use of a microcomputer to provide semi-quantitative composition profiles following matrix, specimen/detector geometry and instrumentation correction factors.

Adirondack Environmental Services, Inc.

Thomas K. Hare
Laboratory Manager/Microscopy

AES Report No. 020724LE

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CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: Shaw E+I	**Address:** 13 British American Blvd	
Send Report To: Drew Graham	**Project Name (Location)** DEC Ogd Ave	**Samplers: (Names)** D. Graham
Client Phone No:	**PO Number:**	**Samplers: (Signature)**
Client Fax No:		

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type: Matrix	Comp	Grab	Number of Cont's	Analysis Required
020724 LE01	Stack Precipitate	—	— A P	S				EDXRF
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					

Turnaround Time Request:

☐ 1 Day ☐ 3 Day ☐ Normal

☐ 2 Day ☐ 5 Day

Special Instructions/Remarks

CC Report To:

Relinquished by: (Signature)	**Received by: (Signature)**	**Date/Time**
Relinquished by: (Signature)	**Received for Laboratory by:**	**Date/Time** 7/23/02 11:00

Temperature	Properly Preserved	Received Within Holding Times
Ambient or Chilled	Y N	Y N
Notes:	Notes:	Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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LABORATORY REPORT

for

Shaw Env. & Infrastructure Inc
13 British American Blvd.
Albany, NY 12110

Attention: Saul Ash

Purchase Order #: 167917 OP

Report date: 10/24/02
Number of samples analyzed: 16
AES Project ID: 021011HA
Invoice #: 248126

ELAP ID#: 10709

AIHA ID#: 100307

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 5
AES sample #: 021011HA01
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.18	liters	CLIENT	10/10/02
Perchloroethylene		Niosh-1003	506	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 4
AES sample #: 021011HA02
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.18	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	36	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 2
AES sample #: 021011HA03
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.16	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	434	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 6
AES sample #: 021011HA04
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue
composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.16	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	430	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 1
AES sample #: 021011HA05
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.18	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	64	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: FSG 3
AES sample #: 021011HA06
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.16	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	553	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: SG 4
AES sample #: 021011HA07
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.19	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	653	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: SG 1 — Date sample received: 10/11/02
AES sample #: 021011HA08 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.18	liters	CLIENT	10/10/02
Perchloroethylene		Niosh-1003	3050	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Well Head
AES sample #: 021011HA09
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.16	liters	CLIENT	10/10/02
Perchloroethylene		Niosh-1003	281	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc
CLIENT'S SAMPLE ID: Blower Effluent
AES sample #: 021011HA10
Samples taken by: Alex Panteleino
MATRIX: Air
Date Sampled: 10/10/02
Date sample received: 10/11/02
Location: Oser Avenue
composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.18	liters	CLIENT	10/10/02
Perchloroethylene		Niosh-1003	142	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: Blower Influent — Date sample received: 10/11/02
AES sample #: 021011HA11 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — composite

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume		1.19	liters	CLIENT	10/10/02
Perchloroethylene	Niosh-1003	53	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: Catox Effluent — Date sample received: 10/11/02
AES sample #: 021011HA12 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.18	liters	CLIENT	10/10/02
Perchloroethylene		Niosh-1003	17	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: Field Blank — Date sample received: 10/11/02
AES sample #: 021011HA13 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — grab

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			1.18	liters	CLIENT	10/10/02
Perchloroethylene		Niosh-1003	<85	mg/m3	TN-GCA-D42	10/16/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: Catox Effluent — Date sample received: 10/11/02
AES sample #: 021011HA14 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — composite

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			2.88	liters	CLIENT	10/10/02
Hydrochloric Acid		Niosh-7903	<1.4	mg/m3	SH-IC-I13	10/18/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: Field Blank — Date sample received: 10/11/02
AES sample #: 021011HA15 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — grab

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Air Volume			2.88	liters	CLIENT	10/10/02
Hydrochloric Acid		Niosh-7903	<1.4	mg/m3	SH-IC-I13	10/18/02

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CLIENT: Shaw Env. & Infrastructure Inc — Date Sampled: 10/10/02
CLIENT'S SAMPLE ID: Detection Limits — Date sample received: 10/11/02
AES sample #: 021011HA16 — Samples taken by: Alex Panteleino — Location: Oser Avenue
MATRIX: Air — grab

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Hydrochloric Acid		Niosh-7903	4	ug	SH-IC-I13	10/18/02
Perchloroethylene		Niosh-1003	10	ug	TN-GCA-D42	10/16/02

APPROVED BY: Lara
Report date: 10/24/02

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Albany, New York 12207
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(142)

REQUEST FOR INDUSTRIAL HYGIENE ANALYSIS

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
SHAW E&F	100 OSER AVE	ALEX PANTELEIKO
ADDRESS 13 BRITISH AMERICAN BLVD. LATHAM, N.Y. 12110	PO NUMBER	SAMPLERS' (Signatures)

AES SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME A = A.M. P = P.M.	MEDIA TYPE/ MATRIX	NO. OF CONT'S	TOTAL SAMPLING TIME (MIN.)	AIR SAMPLE VOLUME (LITERS)	ANALYSIS REQUESTED
021011HA01	FSG5	10/10/02	10.00 A/P	CHARCOAL TUBE	1	6	1.18	PCE BY NIOSH 1003
HA02	FSG4		10.30 A/P		1	6	1.18	
HA03	FSG2		11.00 A/P		1	6	1.16	
HA04	FSG6		11.30 A/P		1	6	1.16	
HA05	FSG1		12.00 A/P		1	6	1.18	
HA06	FSG3		12.30 A/P		1	6	1.16	
HA07	SG4		13.00 A/P		1	6	1.19	
HA08	SG1		13.30 A/P		1	6	1.18	
HA09	WELLHEAD		14.00 A/P		1	6	1.16	
HA10	BLOWER EFFLUENT		14.30 A/P		1	6	1.18	
HA11	BLOWER INFLUENT		15.00 A/P		1	6	1.19	
HA12	CATOX EFFLUENT		15.30 A/P		1	6	1.18	
HA13	FIELD BLANK		16.00 A/P		1	6	1.18	
			A/P					

SEND REPORT TO	SEND INVOICE TO
HEIDI DUDEK	HEIDI DUDEK

Samples received in good condition: ___Y ___N
Samples collected on proper media: ___Y ___N
Comments: _____

TURN-AROUND TIME — PLEASE CHECK ALL THAT APPLY

- ☒ *STANDARD SERVICE
- ☐ *RUSH SERVICE — Results requested by: _____
- ☐ FAX RESULTS TO: _____ FAX # ( ) -
- ☐ PHONE RESULTS TO: _____ PH # ( ) -

*Turn-around time varies by substance. For most substances, standard turn-around time is ten (10) working days. Please inquire for capacity of rush analysis.

LABORATORY APPROVAL	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
			M L	10/11/02	10:00

CHAIN OF CUSTODY

RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE	TIME
A PANTELEIKO		10/10/02	17.00
RELINQUISHED BY (Signature)	**RECEIVED BY (Signature)**	**DATE**	**TIME**

WHITE — Lab Copy YELLOW — Sampler Copy PINK — Generator Copy

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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(2/2)

REQUEST FOR INDUSTRIAL HYGIENE ANALYSIS

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
SHAW E&I	100 OSER AVE	PANTELEIMO ALEX
ADDRESS	**PO NUMBER**	**SAMPLERS' (Signatures)**
13 BRITISH AMERICA AVE LATHAM. N.Y 12110		

AES SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME A = A.M. P = P.M.	MEDIA TYPE/ MATRIX	NO. OF CONT'S	TOTAL SAMPLING TIME (MIN.)	AIR SAMPLE VOLUME (LITERS)	ANALYSIS REQUESTED
W1011HA14	CATOX EFFLUENT	10/10/02	16:30 A/P	CICLICK TUBE	1	15	2.88	HCL BY NIOSH 1003
HA15	FIELD BLANC	10/10/02	17:00 A/P	CICLICK TUBE	1	15	2.88	HCL BY NIOSH 1003
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					

SEND REPORT TO	SEND INVOICE TO
HEIDI DUDEK	HEIDI DUDEK

Samples received in good condition: ___Y ___N
Samples collected on proper media: ___Y ___N
Comments:_____

TURN-AROUND TIME — PLEASE CHECK ALL THAT APPLY

- [X] *STANDARD SERVICE
- [ ] *RUSH SERVICE — Results requested by: _____
- [ ] FAX RESULTS TO: _____ FAX # (___) ___-____
- [ ] PHONE RESULTS TO: _____ PH # (___) ___-____

*Turn-around time varies by substance. For most substances, standard turn-around time is ten (10) working days. Please inquire for capacity of rush analysis.

LABORATORY APPROVAL	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
			M	10/11/02	10am

CHAIN OF CUSTODY

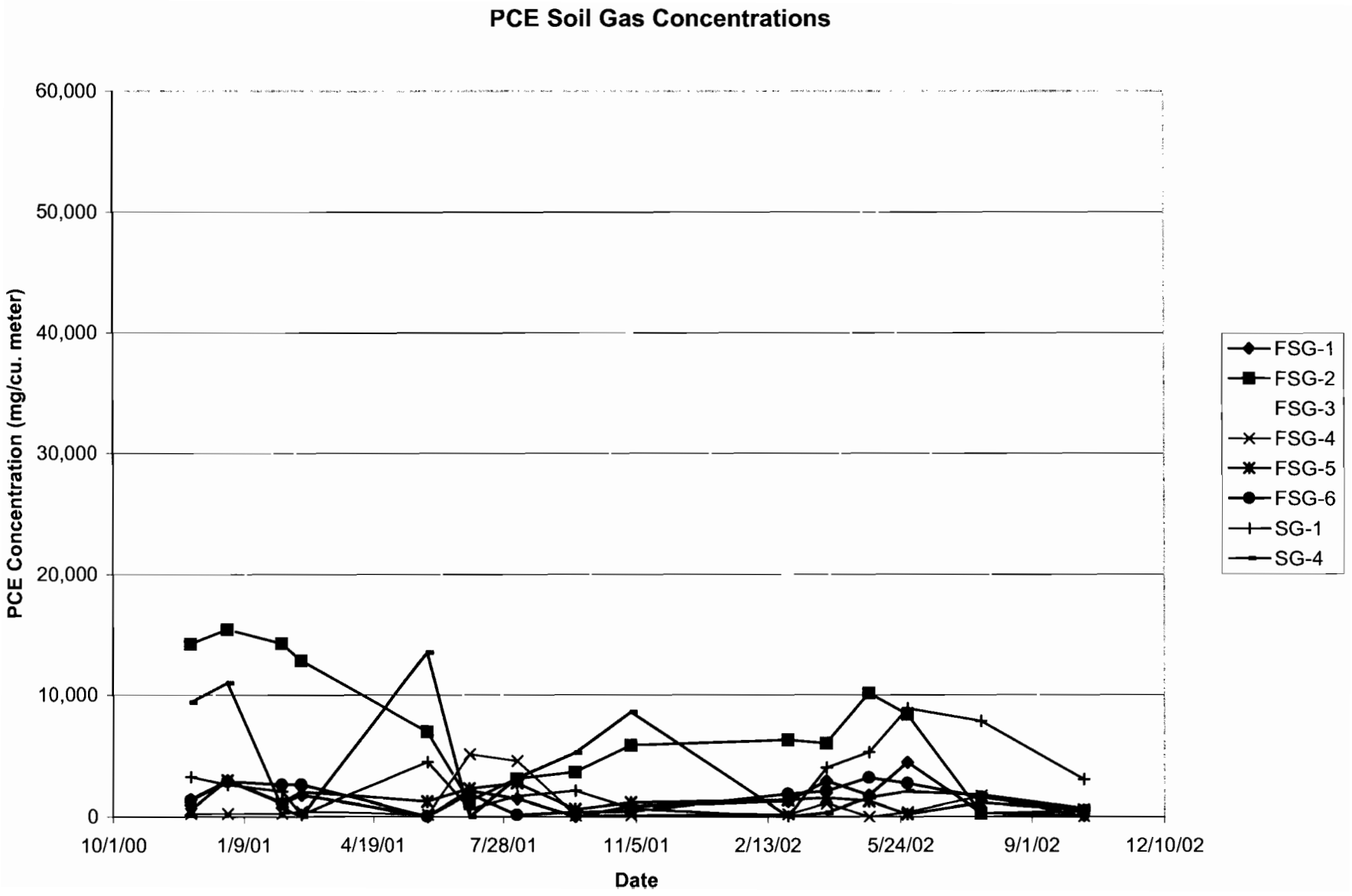
RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE	TIME
PANTELEIMO		10/10/02	
RELINQUISHED BY (Signature)	**RECEIVED BY (Signature)**	**DATE**	**TIME**

WHITE — Lab Copy YELLOW — Sampler Copy PINK — Generator Copy

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

APPENDIX C

HISTORICAL SOIL GAS FIGURE


PCE Soil Gas Concentrations
PCE Concentration (mg/cu. meter)
60,000
50,000
40,000
30,000
20,000
10,000
0
10/1/00
1/9/01
4/19/01
7/28/01
11/5/01
2/13/02
5/24/02
9/1/02
12/10/02
Date
FSG-1
FSG-2
FSG-3
FSG-4
FSG-5
FSG-6
SG-1
SG-4

APPENDIX D

HIRANI CONSULTING, INC. STATEMENT OF QUALIFICATIONS

HIRANI

HIRANI ENGINEERING & LAND SURVEYING, P.C.

(U.S. SBA 8(a) CERTIFIED)

&

HIRANI CONSULTING, INC

(A Wholly-Owned Subsidiary)

www.hiranigroup.com

Company Overview

- Founded in 1991
- DBE/ MBE Firm (NY, NJ & PA)
- U.S. SBA 8(a) Certified
- Firm with Design-Build Capabilities
- 45 full-time and 15 part-time employees
- Three year average annual revenues $ 3.7 million

U.S. SBA Approved NAIC Codes
541310, 541330, 541340, 541611, 541620, 541710, 561210, 562910, 233320, 234110, 324120

DUNS Number: 127129851
Cage Code: 1WNG5
Federal I.D. No.: 113467754
8(a) Entrance Date: Dec 4, 2001
8(a) Graduation Date: Dec 3, 2010
ACASS No. : 018880

U.S.SBA Contacts
New York District Office, 26 Federal Plaza, New York, NY
Contact: Ms. Georgia Ellis, Asst. Dist. Dir
BOS: Prospero Uybareta
Tel: (212) 264 1866

Our Clients

- U.S. Army Corps of Engineers
- U.S. Army, U.S. Navy
- Federal Aviation Authority
- New York City Agencies
- New York State Department of Transportation
- Metropolitan Transportation Authority (NY)
- Dormitory Authority of the State of New York
- A/E Firms
- Contractors and Developers
- Manufacturing Industries
- Commercial and Retail Clients
- Educational Institutions
- Law Firms

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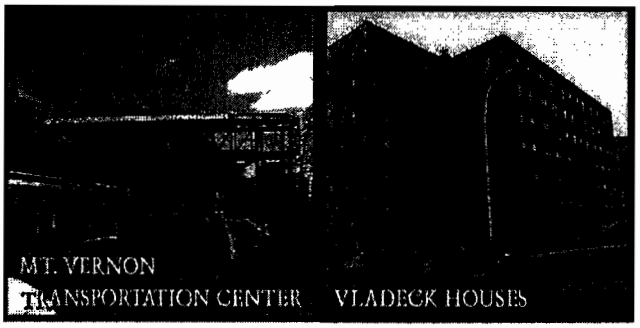
47 Mineola Boulevard, 2nd Floor
Mineola, NY 11501
(516) 248 1010 / (516) 248 9018 *fax*

NEW JERSEY OFFICE
2 Worlds Fair Drive, Suite 105
Somerset, NJ 08873
(732) 564 0164 / (732) 564 0167 *fax*

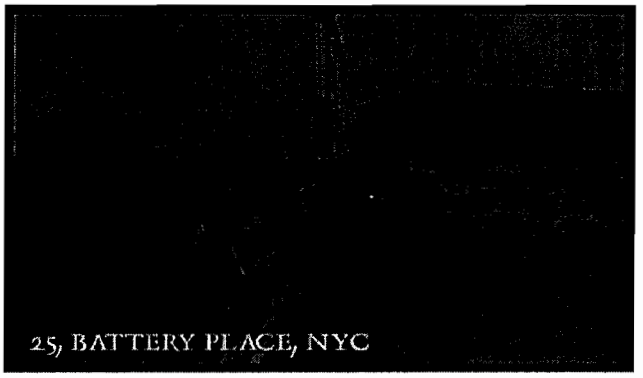
PENNSYLVANIA OFFICE
16 Marsenna Lane
Jonestown, PA 17038
(717) 865 7044 / (717) 865 1767 *fax*

AE Services Civil/ Structural/ Architectural



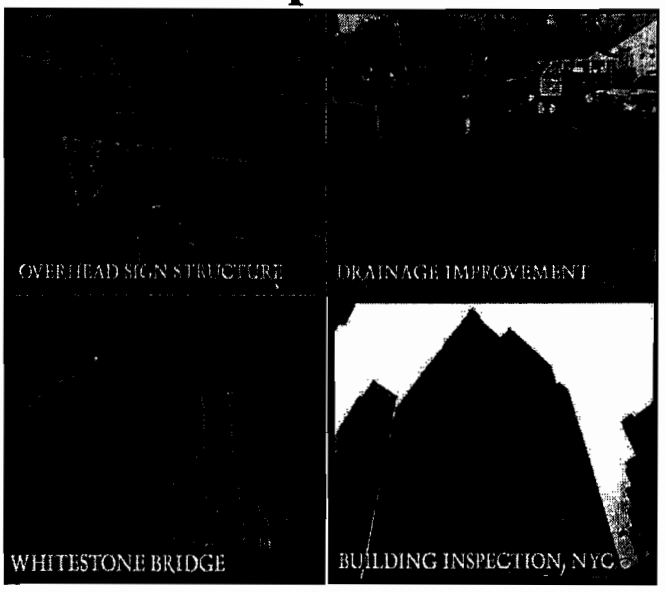
- Architectural Design
- Feasibility Studies, Site Engineering
- Conceptual and Final Design – Buildings, Parking Structures, Waterfront Structures, Bridges, Piers, Abutments, retaining Structures, Heavy Equipment Foundations & Supports, Highways
- Condition Surveys
- Structural Rehabilitation
- Seismic Evaluation
- Value Engineering

Land Surveying



- Utility Surveys
- Topographic Surveys
- Global Positioning Surveys
- Right of Way Surveys
- Construction Layout Surveys
- Settlement Surveys
- Route Surveys

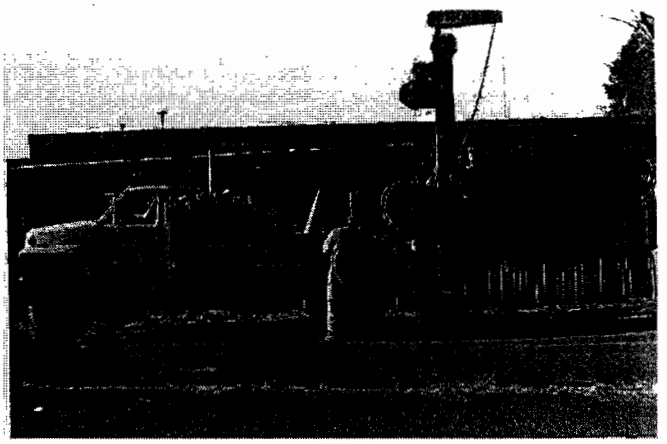
Construction Management & Inspection



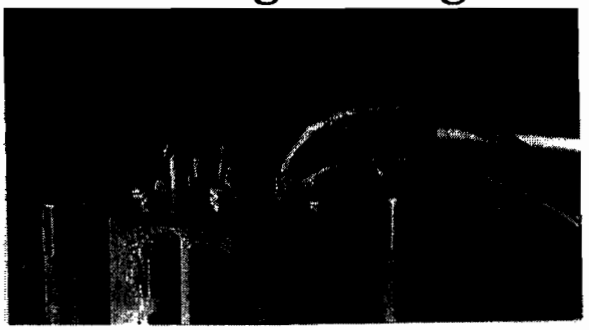
- Highways & Street Reconstruction
- Bridge Replacement, Rehabilitation & Repair
- Utilities/ Drainage Installation & Rehabilitation
- Building Rehabilitation & Repair
- Constructability Reviews of Plans
- Project Scheduling and Schedule Analysis
- Cost Estimating and Reviews
- Construction Administration and Site Inspections
- Shop Drawing Reviews
- Value Engineering
- Site Safety

Geotechnical Engineering

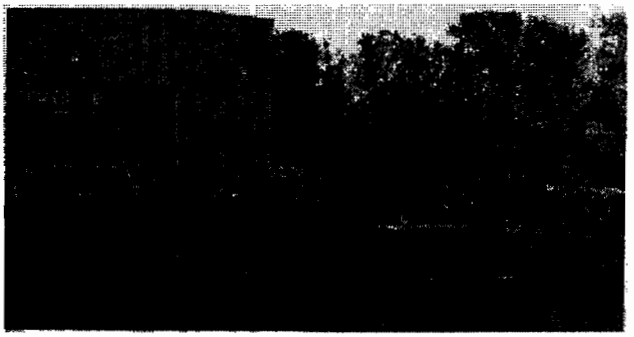
- Subsurface Investigations and Reports
- Embankment Slope Stability Analysis & Design
- Landfill Engineering
- Pavement Evaluation & Design
- Ground Improvement Evaluation & Design
- Earth Retaining Structures
- Construction Inspections



Environmental Consulting & Engineering



- Asbestos & Lead Surveys/ Inspections/ Design & Management
- Preliminary Site Assessments/ Site Investigations
- Remedial Design for Contaminated Sites
- Human & Ecological Risk Assessments
- Environmental Permitting & Regulatory Compliance
- Environmental Site Assessments (Phase I and Phase II)/ Environmental Audits/ Environmental Impact Studies (EIS)
- Risk Analysis, Risk Management, Life Cycle/ Economic Analysis
- Pollution Prevention Plans & Permitting / Stormwater Permitting
- Air Pollution Control Technologies/ Air Permits
- Hazardous Waste & Solid Waste Management Facility Design & Permitting
- Aboveground/ Underground Storage Tank (AST/UST) Services
- Recycling Permits & Technical Support.



Environmental Support Services

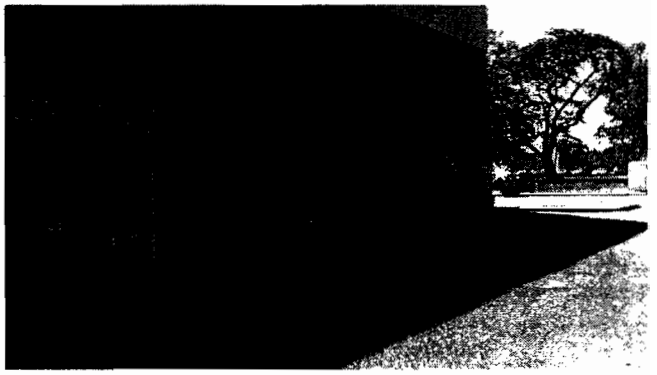
- Data management and Laboratory Data Validation
- Groundwater Monitoring & Air Monitoring
- Wetland Delineation and Permitting
- Ecological and Biological Studies
- Community Relations
- Enforcement Support
- Operation and Maintenance
- Health & Safety Monitoring
- Computer Modeling Support for Remedial Design

Environmental Remedial Construction Services

- Asbestos, Lead-based Paint Abatement
- Excavation & Disposal
- Groundwater Pump & Treatment
- Free Product Recovery Systems
- In-situ Soil Stabilization
- Soil Vapor Extraction
- UST/ AST Removal & Replacement

Facility Management Services

- Building Condition Surveys
- Environmental Protection
- Fire Protection
- Hazardous Waste Management
- Housing & Building Management, Maintenance including HVAC Systems
- Operations Maintenance (O&M)
- Utility System O&M



Vulnerability Assessments

- Accident Prevention
- Comprehensive Emergency Management
- Contingency Planning
- Hazard Assessment and Simulation
- Hazard Identification and Prediction
- Infrastructure Protection /Design
- Risk Analysis, Assessment, Process Reliability
- Risk Management, Risk Reduction
- Facilities /Base Design

ENVIRONMENTAL SERVICES
REPRESENTATIVE PROJECT EXPERIENCE

- A/E Environmental Services, Fort Monmouth U. S. Army Installation, USACE contract, New York District.
- NPDES permitting, Pollution Prevention Plans, Stormwater Sampling and Facility inspections, U. S. Army, Fort Monmouth, NJ.
- Removal of 30 underground storage tanks and construction of two fuel dispensing facilities including site preparation, construction of retaining walls, fencing, curbs, and gates (City of Newark).
- RI/FSs and Remediation of a number of Dense, Non-Aqueous Phase Liquid (DNAPL, such as many chlorinated organic compounds, coal tars, etc.)-contaminated sites. (Hoechst Celanese, Beezer Inc., BASF, Georgia Pacific, Ford Fasteners, various consulting firms)
- Remedial Investigation/ Feasibility Studies (RI/FS)/ Remedial Alternatives Analysis of CERCLA, RCRA, ECRA/ISRA (New Jersey) and UST sites (Olin Chemicals, Kalama Chemical, BASF, ASARCO, Rockwell International, Schuylkill Metals, Cessna, Plessey Dynamic, Southland, Lenox, Novak, U.S. Postal Service, A.T.&T., various commercial clients and consulting firms).
- RCRA Facility Investigations (RFI) and Corrective Measures studies (CMS). (Olin Chemicals, Chemical Waste Management, Texaco)
- Part B Hazardous Waste Permit Applications including various supporting documents and plans. Prepared solid waste permits applications and permit modifications. (Olin Chemicals, Marine Shale Corp., Chemical Waste Management, Rocky Flats Plant)
- Preparation and implementation of closure plans for hazardous waste and solid waste facilities (Olin Chemicals, Georgia pacific, CECOS International).
- Litigation-related projects, which involved evaluation of technical reports prepared by other consultants, identification of key hydrogeologic and groundwater contamination issues, preparation of expert witness reports, and presentation of testimony at depositions. (Various law firms in New Jersey, Louisiana, and various consulting firms)
- Underground Storage Tank (UST) closures, Site Investigations, and Remediation of former UST sites including the design of product recovery systems (performed over 40)
- Preparation of numerous groundwater assessment and monitoring reports for RCRA regulated sites (Olin Chemicals, Georgia Pacific, CECOS International, Marine Shales Corp.).
- Investigation of groundwater contamination by nitrates and nitrate transport modeling at various septic facilities in southern New Jersey. Also provided hydrogeologic modeling support for the design of septic facilities. (School Districts and various engineering companies in New Jersey).
- Environmental audits including several Phase I and Phase II site assessments of commercial and industrial sites (Federal Aviation Authority, U.S. Postal Service, engineering companies, law firms, and commercial clients).
- Environmental Assessment/ NEPA (Federal Aviation Authority/ U.S. Dept. of Transportation).
- Engineering design, health and safety, and construction quality assurance for the construction of a hazardous waste landfill (Olin Chemicals).
- Execution of corrective action for an abandoned hazardous waste landfill and drum- storage area (Olin Chemicals).
- Groundwater modeling/contaminant transport modeling using analytical, semi-analytical and numerical models (various clients).
- Risk assessments, clean up levels evaluations, risk-based corrective actions evaluations, and preparations of natural remediation demonstrations (Georgia Pacific, law firms and engineering companies).

- Wetlands delineations and permits preparation (Acres International and various commercial clients)
- Prepared and conducted peer reviews of Underground Injection Control (UIC) permits
- Characterization of a low-level radioactive waste disposal site in Arkansas (U of Ark). Reviewed site characterization plans (prepared by DOE's Office of Civilian Radioactive Waste Management) for high-level radioactive waste repository siting, Deaf Smith County, Texas.
- Hydrogeologic investigations and geochemical studies associated with landfills, mines, and smelters, and acid mine drainage problems. (Burlington Northern Rail Road, Alcoa, Leadville Mining, ASARCO, Waste Management Inc., St Joe Gold Corp., and various engineering companies).
- Laboratory data validation of volatile, semi-volatile, and metals analyses (over 2000) using EPA Region II and Region III guidelines. Also performed data evaluations and prepared Quality Assurance Project Plans. (Various U. S. Navy Projects, CH2M Hill, EA Engineering, and various consulting companies)
- Preparation of DPCC and SPCC Plans for chemical manufacturing and bulk fuel storage facilities. (Fidelity Chemical, Olin Chemicals, National Fuel Oil Inc., various engineering companies).
- Evaluation of groundwater remediation systems including pump and treat system and institution treatment systems involving air sparging, bioremediation. Design of groundwater pump and treatment system at a industrial site. The 200 GMP system consisted of oil water separator, iron treatment system, airstripper and thermal oxidizer for offgas treatment
- Air permits to install and certificates to operate for: surface coating, degreasing, non reactive blending for paint making, batch processes in resin and pharmaceutical industry, air pollution control equipment including thermal and catalytic oxidizer. Projects were located in New Jersey, Pennsylvania, Texas, and Massachusetts.
- Developed Risk Management Programs (RMPs) required by the New Jersey Toxic Catastrophe Prevention Act (TCPA) for two facilities handling Allyl Chloride and Toluene Diisocyanate. This involved performing Safety Audits, Hazard Analysis and Risk Assessment, and developing Standard Operating Procedures, Maintenance Programs, Training Programs, Emergency Response Programs, and Accident Investigation Procedures. Both RMPs were approved by the New Jersey Department of Environmental Protection (NJDEP).
- Installation of a thermal oxidizer for a paint manufacturing facility. Project involved selection of the unit and Continuous Emission Monitoring System (CEMS), supervision of installation, and tests for CEMS certification and destruction efficiency. Project also involved obtaining necessary permits and preparing all documents required by the NJDEP

* Includes experience of the Principals of the firm.

CONTACT
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(717) 865 7044 / (717) 865 1767 *fax*

ARCHITECTURAL, CIVIL, STRUCTURAL – DESIGN REPRESENTATIVE PROJECT EXPERIENCE

- Design-Build Contract for Super 8 Motel, Lebanon, PA: Ram-Krupa, Inc, Palmyra, PA
- Shoring Design, Coliseum Bus Depot, Bronx, NY: New York City Transportation Authority. New York, NY
- Engineering Services for the Reconstruction of Delaware Aqueduct Shafts 9, 10, and 17: NYCDEP, NY
- Demolition of Department of Sanitation Building, New York City, NY : NYC Department of Sanitation
- 28 West 20th Street, Manhattan : Panasia Estate Inc New York, NY
- Construction of Marry Mitchelle Family and Youth Center-New 2 Storey Building : NYC Dept. of Design and Construction
- Design Phases I-VI and Construction Inspection Services - Southfork Bikeway Phase I : Suffolk County Dept. of Public Works
- PS 166, Queens New Addition and Existing Building Upgrades : NYC School Construction Authority
- PS 6X, 1000 East Tremont Avenue, Bronx : NYC School Construction Authority
- Engineering Consultant Services to Prepare Construction Document as Needed for the Construction or Reconstruction of Various Engineering System in Parks, Parks Buildings and Playgrounds, Located In Five Boroughs of the City of NY : NYC Dept. of Parks and Recreation
- Jacobi Medical Center : Dormitory Authority of NYS
- Construction of 4 Storey building at 148 Madison Street, Manhattan : Flintlock CT
- Building Foundation for Kings County Hospital in Brooklyn, NY : Dormitory Authority of NYS
- Reconstruction of Dag Hammarskjold Plaza in NYC, NY : NYC Dept. of Parks and Recreation
- Development of Westchester Industrial Complex, M-1 District, Section 43.12 Block 1, Lot 3, NY
- Highway Design Services, Phase I-VI, Reconstruction of 4.2 miles of Hillside Avenue, Safety Improvements, Nassau County: NYS Dept. of Transportation Region 10.
- Reconstruction of 11th Avenue Bridge Over the L.I.R.R. in Brooklyn: NYC Dept. of Transportation, Bureau of Bridges.
- New 4 Storey Historical Residential Spa, Brooklyn: A. Williams Construction Corp.
- Papa John's Pizza Store: Kamlesh Patel
- Interboro Medical Care & Diagonostic Center: Dr. Venkat Nandi.
- Day Care Center at Brooklyn: Monika Pinnock.
- Building Inspection and Design- 421 7th Avenue, New York, NY: AAG Management, Inc
- Building Renovation at 135 28th Street, New York, NY: AAG Management, Inc.
- Queens Hospital Center: NYC Health and Hospital Corp.
- Reconstruction of Apparatus Floor at 15 Fire Houses Brooklyn and Staten Island: NYC Dept. of Design and Construction.
- Reconstruction of Roosevelt Hotel Slab/ Grand Central terminal Ceiling Repairs: Metropolitan transit Authority
- Reconstruction of Vladeck Houses: NYC Housing Authority
- Construction of Penthouses and New Elevator for 54 Warren Street, Manhattan, NY: Haley Lieberman
- Brooklyn Public Library: NYC Dept. of Design and Construction.
- Design Services for 34th Street Station Rehabilitation: NYC Transit Authority
- E 161 Subway Rehabilitation, Bronx, NY: NYC Transit Authority
- Gateway Building, 125 Street, Lexington Avenue, New York, NY: Feinstein Iron Work, Inc

- Morrisania Air Rights House, Bronx, NY: NYC Housing Authority
- Reconstruction of Morris High School, Bronx, NY: Kreisler Borg Florman
- Renovation of Engine Company 225: NYC Fire Department.
- The Petri Houses – Othello Project: D+DG Architecture P.C.
- Environmental Services for Various Psychiatric Centers: Dormitory Authority of NY State.
- Rail Control Center, 54th Street and 9th Avenue, Borough of Manhattan, NY: Metropolitan Transit Authority
- Building Foundation for Kings County Hospital in Brooklyn, NY: Dormitory Authority of NY State.
- Rehabilitation of South Beach Psychiatric Center, Bldg # 5, Staten Island, NY: Office of General Services.
- Motel 6, Lancaster, PA: Shree Hari Krupa, LLC.
- Dry Run Mansion, West Hanover Township, PA: MJHRN Group, Inc.
- Hanover Township Home Development Phase I, Althea Drive, Hanover Township, PA: Well Built Home Builders, Inc.
- Hanover Township Home Development Phase II, Franklin Street, Hanover Township, PA: Well Built Home Builders, Inc.
- Renovation And Audition of Managers Quarters And Business Center at Best Western Inn, Chambersburg, PA: Best Western Inn.
- Renovation and Reconstruction of Colony Motor Lodge: Yogesh Padalia.
- Renovation and Reconstruction of Dutch Motel, Phase I, Palmyra, PA: Hari-Om-Nam, Inc.
- Renovation and Reconstruction of Dutch Motel, Phase II, Palmyra, PA: Hari-Om-Nam, Inc.
- Bayonne Bridge Rehabilitation Shielding System Design and Structural Impact Analysis: Port Authority of New York and New Jersey
- Bridge Replacement at Route 25 Over Nissiquogue River in Smithtown: NYS Dept. of Transportation Region 10
- Design and Design Support Services During Construction of Project TN-81, Drainage System: NYC Transit Authority
- Mount Vernon Transportation Center – Pedestrian Bridge over Railroad Tracks: Metro-North Railroad.
- Potter Avenue Bridge Replacement, Brooklyn, NY: NYC Transit Authority.
- Reconstruction and Widening of Atlantic Avenue Bridge, Brooklyn, NY: NYC Economic Development Corp.
- Reconstruction of the 11th Avenue Bridge over L.I.R.R. in Brooklyn, NY: NYC Dept. of Transportation, Bureau of Bridges.
- Westchester Avenue Bridge Rehabilitation Services for Design Phases I-VI, Westchester Avenue Bridge over Sheridan Expressway, Bronx County, NY: NYS Dept. of Transportation Region 11.

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Jonestown, PA 17038
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CONSTRUCTION MANAGEMENT CONSTRUCTION INSPECTION & LAND SURVEYING REPRESENTATIVE PROJECT EXPERIENCE

- Construction Management Services for Newark International Airport on an "As-Needed" Basis: Port Authority of New York and New Jersey.
- Construction Management Services at Medical Center in Queens, NY: James Isenberg.
- Construction Management Services for New 58 Room Super 8 Motel: MJHRN Group, Inc.
- The Administration of Children Services in Bellevue Hospital, New Child Center: NYC Dept. of Design and Construction.
- Reconstruction of Dag Hammarskjold Plaza in NYC, NY : NYC Dept. of Parks and Recreation.
- 2000 Biennial Bridge Inspection Services for Williamsburg Bridge, East River Bridge in New York City: NYS Dept. of Transportation Region 11.
- Regional Design Services, Region 8 Culvert Inventory: NYS Dept. of Transportation Region 8.
- Sign Structure Inspection Services for Overhead Sign Structures in Region 11.
- Building Inspection and Design- 421 7th Avenue, New York, NY: AAG Management, Inc.
- Cauldwell Avenue Partnership Homes – Construction of 19 Three Family Houses in Bronx, NY: NYC Housing Partnership
- Construction Inspection, Traffic Management Center, Building Rehabilitation, NY: NYS Dept. of Transportation Region 10.
- Extension of PS 20 in Staten Island, NY: NYC School Construction Authority.
- Indefinite Quantity Engineering Services for Technical Inspection of Miscellaneous Construction Projects, Five Boroughs of NY: Metropolitan Transit Authority.
- Safe Street/ Safe City Police Precincts in New York City: NYC Dept. of Design and Construction.
- Inspection Services for Topping Avenue Partnership Homes – 25 Three Family Houses: NYC Housing Authority.
- Construction Inspection, Route 27A, Montauk Highway between Connecticut Avenue and Oakdale Merge at Sunrise Highway Bridge Replacement over LIRR, Suffolk County: NYS Dept. of Transportation Region 10.
- Design and Surveying Services for the Reconstruction of the 11th Avenue Bridge over L.I.R.R. in Brooklyn, NY: NYC Dept. of Transportation, Bureau of Bridges.
- Inspection and Design Services for Mount Vernon Transportation Center – Pedestrian Bridge over Railroad Tracks: Metro-North Railroad.
- Condition Inspection and Design Services for Protective Coating of Ten Bridges Crossing AMTRAK, Bronx, NY: NYC Dept. of Transportation.
- Condition Inspection and Design Services for Reconstruction of East Tremont Bridge over AMTRACK and Conrail in Bronx: NYC Dept. of Transportation.
- Condition Inspection and Design Services for Reconstruction of E 144th St. Bridge over Metro-North Railroad : NYC Dept. of Transportation.
- Inspection Services for 2000/2001 Bridge Painting Preservation Program, Westchester / Putnam : Metro-North Railroad.
- Construction Inspection, Cleaning and Painting 29 Bridges on the Major Deegan Expressway, Bronx County : NYS Dept. of Transportation Region 11.
- Construction Inspection, Resurfacing, Restoring and Rehabilitation of NY 107, Glen Head Road to Pulaski Road, Nassau County : NYS Dept. of Transportation Region 10.
- Inspection Services for Paint removal and Repainting of Fire Island Bridge and 32 Bridges in Nassau and Suffolk Counties : NYS Dept. of Transportation Region 10.
- Construction Inspection for Crack Sealing and Pavement Repairs on Various Bridges

and Highways, Region 11 : NYS Dept. of Transportation Region 11.

- Construction Inspection Services for Bridge Painting (23 Bridges) and Bridge Fencing (29 Bridges) in Nassau and Suffolk Counties : NYS Dept. of Transportation Region 10.
- Construction Inspection and Surveying Services for Westchester Avenue Bridge Rehabilitation Services for Design Phases I-VI, Westchester Avenue Bridge over Sheridan Expressway, Bronx County, NY: NYS Dept. of Transportation Region 11.
- Inspection and Support Services for Project WBM-319, Miscellaneous Painting and Suspender Rope Collar Replacement, and Project BW-87A and C, Flag Repairs and Pin Replacement at the Bronx - Whitestone Bridge : Triboro Bridge and Tunnel Authority.
- Construction Inspection Services, Rehabilitation of Long Beach Boulevard Bridge Over Reynolds Channel, Nassau County : NYS Dept. of Transportation Region 10.
- Construction Inspection and Surveying Services for Bridge Deck Replacement at CR 83, N. Ocean Ave. over LIE at Exit 63, Suffolk County : Suffolk County Dept. of Public Works.
- Surveying Services for Newtown Creek WPCP Plant Upgrade and Rehabilitation : NYC Department of Environmental Protection.
- Surveying Services and Construction Layout for Jacobi Medical Center : Dormitory Authority of NYS.
- Surveying Services and Construction Documents for the Downtown Flushing Pedestrian, Northern Blvd. To Roosevelt & Main St. to Parsons blvd.: New York City Economic Development Corp.
- Surveying Services for the Construction of Queens 7 Annex : New York City Department of Sanitation.
- Surveying Services and Construction layout for New York Presbyterian Hospital - Parking Garage : Bovis Lend Lease LMB, Inc.
- Surveying Services for Construction of Suffolk County Community College : Dormitory Authority of New York State.
- Construction Inspection and Surveying Services: Reconstruction of Route 9A Horatio Street to 25th Street, New York : NYC Department of Transportation Region 11.
- Highway Design Survey Services, Phase I-IV, Reconstruction of 4.2 Miles of Hillside Avenue, Safety Improvements, NYC Line to RT 25, Nassau County : NYC Department of Transportation Region 10.
- Surveying Services for the Brooklyn Vent Service Buildings Rehabilitation (Task 32), NW & West of the Brooklyn Plaza entrance to the Brooklyn Battery Tunnel : Triborough Bridge & Tunnel Authority.
- Construction Management Services for Motel 6, Lancaster, PA: Shree Hari Krupa, LLC.
- Construction Management Services Dry Run Mansion, West Hanover Township, PA: MJHRN Group, Inc.
- Construction Management Services Hanover Township Home Development Phase I and II, Althea Drive & Franklin Street, Hanover Township, PA: Well Built Home Builders, Inc.

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DESIGN-BUILD AND CONSTRUCTION SERVICES
REPRESENTATIVE PROJECT EXPERIENCE

- Dryrun House 4200 SF. Project., East Hanover Township, Grantville, PA: MJHRN Group, Inc.:Rough carpentry work, Masonry concrete blocks, Footers, Foundation, Brickwork, Excavation, Roof trusses, Fiberglass shingles, Floor joists, Siding, Soffit, Sand mound septic sewer system, Doors and windows
- Franklin Street House Project., West Hanover Township, Harrisburg, PA: Well Built Constractors, Inc.: Rough carpentry work, Masonry concrete blocks, Footers, Foundation , Roof trusses, Fiberglass shingles, Floor joists, Siding, Soffit, Windows
- Althea Drive House Project., West Hanover Township, Harrisburg, PA: Well Built Constractors, Inc.: Rough carpentry work, Masonry concrete blocks, Footers, Foundation, Roof trusses, Fiberglass shingles, Floor joists, Siding, Soffit, Windows
- New Construction of 56 units Super 8 Motel at Jonestown, PA: Ram Krupa, Inc: Rough carpentry work, Masonry concrete blocks, Footers, Foundation, Roof trusses, Fiberglass shingles, Floor joists, Siding, Soffit, Doors and windows, Site excavation, Dry walling, Painting, Voice and data system
- New Construction of 42 units, Motel 6 in Lancaster, PA: Shree Hari Krupa, LLC: Rough carpentry work, Masonry concrete blocks, Footers, Foundation, Roof trusses, Fiberglass shingles, Floor joists, Siding and Drive-it, Windows
- Audition of Managers Quarters at Best Western inn at Chambersburg, PA: Best Western Inn.: Rough carpentry work, Dry walling, Painting, Carpeting, Tiles, Plumbing, Electrical, Soffit , Windows
- Renovation and Reconstruction of 19 units at Colony Lodge Motor Inn, Stroudsburg, PA: Colony Motor Inn: Rough carpentry work, Masonry concrete blocks, Footers, Foundation, Roof trusses, Fiberglass shingles, Floor joists, Siding, Soffit, Windows.
- Installation of Voice and Data Communication Systems at North Ridge Motel in PA: North Ridge Motel : Installation and programming of Key Systems US, Atlas II system, Installation of Voice and Data cabling
- Replacement of Curb and Sidewalks for Red Carpet Inn and Suites in Morgantown, PA: Sam King Construction.: Demolition of existing concrete sidewalk and curb, Re-forming, finishing concrete, Installation of sidewalk and curb to PADOT Specifications.
- Renovation of 13 units, Interior and Exterior of Main Building at Dutch Motel in Palmyra, PA. Second Contract Replacement of Curb, Sidewwalk, and Voice and Data System Installation for Dutch Motel in Palmyra, PA: Hari-Om-Nam, Inc.: Rough carpentry work, Masonry concrete blocks, Concrete; dry walling, fiberglass shingles, floor joists, siding, soffit, fascia, installation of doors and windows, Installed and rewired voice and data communication system, Plumbing, Electrical, Interior design, Painting, Tiling, Carpeting

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