

JOB NO. 35236

JOB NAME PAS O&M

MEMO OF TELECON

DATE 4/13/92 TELEPHONE (518) 457-3252

PERSON CALLING Tom Kruehahn PERSON CALLED John Munn

REPRESENTING URS REPRESENTING NYS DEC

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: PAS spring sampling - split samples

TEXT OF TELECON

Contacted John Munn (DEC) regarding the split samples during the spring 92 sampling event. Informed John that the tentative date is 5/11/92. He informed me that the DEC would like to collect split samples for wells SWW2, LR6 and LD3. The DOH will perform the analyses using C&P deliverables. I will contact John Munn later this month to confirm the schedule.

cc: D. Ayer O Sheppard A.K. Gupta File:

SAMPLING EVENT SUMMARY

SPRINGS - 1992

Pollution Abatement Services

TIME: _____

DEPARTURE:

DATE: _____ TIME: _____

Onsite: _____

POST-SAMPLING CHECKLIST:

- Wells Locked
- Tank Secured
- Site Cleanup / Walk Through
- Site Secured

Reasons on Arrival: _____

Date: _____

Date: _____

Date: _____

Date: _____

SURFACE WATER SAMPLES (FALL ONLY)

Sample Number	Sampling Date	Sample Time	A.S.
PAS-SW-1			
PAS-SW-2			
PAS-SW-3			
PAS-SW-4 A			
PAS-SW-5			

STREAM SEDIMENT SAMPLES (FALL ONLY)

Sample Number	Sampling Date	Sample Time	A.S.
PAS-SS-1			
PAS-SS-2			
PAS-SS-3			
PAS-SS-4 A			
PAS-SS-5			

LEACHATE SAMPLES (RP'S)

Sample Number	Sampling Date	Sample Time	A.S.
LCW-1,2,3 COMPOSITE			
LCW-4			
PAS-SWW-3			
PAS-SWW-11			

GROUNDWATER SAMPLES

Sample Number	Sampling Date	Sample Time	A.S.
PAS-LS-2			A
PAS-LR-2			A
PAS-LD-2			A
PAS-LR-3			A
PAS-LD-3			A
PAS-LD-4			A
PAS-LD-5			A
PAS-LS-6			A
PAS-LR-6			A
PAS-LD-6			A
PAS-LR-8			A
PAS-LD-8			A
PAS-LS-9			A
PAS-SWW-1			
PAS-SWW-4			
PAS-SWW-6			
PAS-SWW-8			
PAS-SWW-10			
PAS-SWW-12			
Trip Blank			
MS/MSD			

FALL ONLY

TANK LEVEL MEASUREMENTS

Date	Time	Level from Bottom	Remarks

A.S. = Analytical Schedule

NOTES: _____

By: _____

Firm: _____

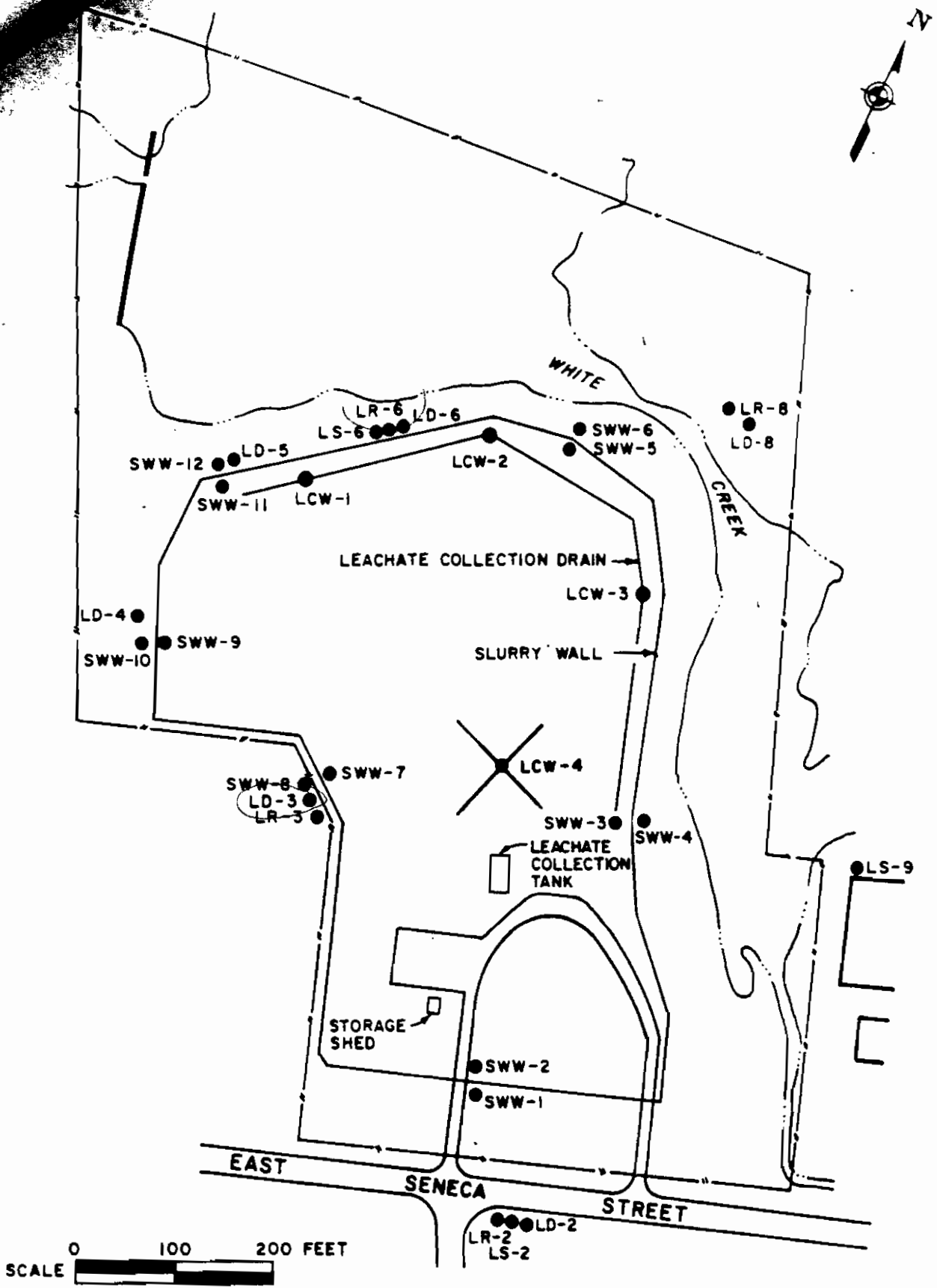
Telephone #: _____

TABLE II -
ANALYTICAL SCHEDULES AND METHOD REFERENCES

<u>Schedule A</u>	<u>Method No.</u>	<u>Reference</u>
TCL Volatiles + 10 TIC	8240	1
TCL Semivolatiles + 20 TIC	8270	1
<u>Schedule B</u>		
BOD	405.1	2
COD	410.1	2
TKN	351.4	2
Total Phosphorus	365.2	2
TOC	415.1	2
TSS	160.3	2
TDS	160.1	2
<u>Schedule C</u>		
TCL Volatiles + 10 TIC	8240	1
TCL Semivolatiles + 20 TIC	8270	1
TCL Pesticides/PCB	8080	1
TAL Metals (23)	6010/7000	1
Total Phenol	9065	1
Total Cyanide	9010	1
Hexavalent Chromium	6010/7000	1

References

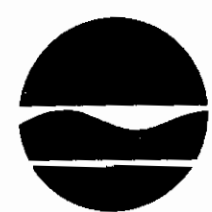
1. Test Methods for Evaluating Solid Waste - Physical/Chemical Methods, SW-846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Services Protocols - September 1989.



A-3619/B

AK.D3

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

FEDERAL EXPRESS

JUN 22 1990

Mr. Dharmarajan R. Iyer
URS Consultants
570 Delaware Avenue
Buffalo, New York 14202

RE: Pollution Abatement Services (PAS) (O&M) Site #738001
W.A. No.: D002340-8

Dear Mr. Iyer:

As discussed, enclosed is a copy of analytical results of the November 1989 and May 1990 sampling rounds at the PAS site; to identify the list of target compounds for the O&M program.

In order to keep the cost of analysis to a minimum, and since the analysis is for monitoring purposes only, the analytical lab should be tasked to submit Form I for each sample (results only), however, if needed, we must have a capability to request results as per ASP Category A requirements (results with QA/QC). For costing purposes one round of sampling should be obtained in the bid to include ASP Category A requirements.

If you have any questions, please call me at 518/457-0927.

Sincerely,

A. K. Gupta, P.E.
Senior Sanitary Engineer
Operation & Maintenance Section
Bureau of Construction Services
Division of Hazardous Waste Remediation

Enclosure

cc: Mr. Thomas Knickerboker, URS

bcc: w/o enc. - R. Lupe
M. Serafini
S. Gupta
G. Rider

JUN 25 1990

OPERATIONS & MAINTENANCE SECTION

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

JOB NO. 35216.08

JOB NAME PAS O&M W/A D002340 NYS

MEMO OF TELECON

DATE 6/22/90 TELEPHONE (518) 457-0927

PERSON CALLING DR. Tyer PERSON CALLED A.K. Gupta

REPRESENTING URS REPRESENTING NYSDEC O&M

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Analytical Requirements

TEXT OF TELECON

AKG discussed the analytical requirements with Maureen Serafini (NYSDEC QA/QC) in response to DRI's question regarding analytical requirements for the monitoring program at the PAS site. Maureen had also talked with Tom Knickerbocker (URS). The general agreement was as follows:

- REQUIRE FORM 1 (results) only for routine monitoring. Tom, AKG & DRI will discuss possible reductions in number of analytical parameters after reviewing data from the last two rounds of sampling. AKG will FedEx data today to DRI.
- Ensure that Labs also have capability to produce ASP Category A deliverables and obtain costs for one round of sampling ^{meeting} Category A requirements. NY State & URS agree that in the event questions are raised or there are concerns with data from routine analysis, we should use Category A for re-sampling.

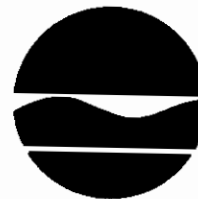
cc: A.K. Gupta

T. Knickerbocker

C. Hurley

File: 35216.08 (020)

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

October 23, 1990

Dharmarajan R. Iyer, Ph.D.
URS Consultants, Inc.
570 Delaware Ave.
Buffalo, NY 14202-1207

Dear Dr. Iyer:

Re: PAS - Laboratory Subcontract Review

I have reviewed your subcontract agreement and find all our concerns are addressed.

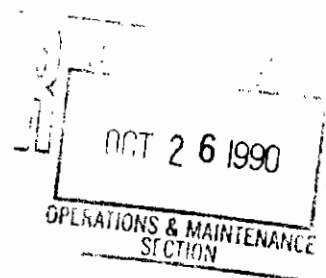
Please provide Recra Environmental, Inc. with a copy of the project workplan and quality assurance project plan for their reference.

I understand URS plans to begin sampling the first week of November. Please let me know of any changes so that I may schedule a field audit of sampling procedures. You may get word to me through A.K. Gupta who will keep me informed or you may call me at (518) 457-3252. Please do not hesitate to contact me if you have any further concerns or questions.

Sincerely,

John R. Munn
Chemist
Bureau of Hazardous Site Control
Div. of Hazardous Waste Remediation

cc: A.K. Gupta ✓
M. Serafini



URS

CONSULTANTS INC

October 19, 1990

Mr. John Mann
New York, NY 10001
New York, NY 10001
New York, NY 10001
New York, NY 10001
New York, NY 10001

RECEIVED
OCT 22 1990
CONSTRUCTION & MAINTENANCE
SECTION

Mr. Mann

Very truly yours,

CONSULTANTS

Benjamin J. ...
Regional Manager

cc: file

10/19/90
15:00

- 1. Mr. ...
- 2. Mr. ...
- 3. Mr. ...
- 4. Mr. ...
- 5. Mr. ...
- 6. Mr. ...
- 7. Mr. ...
- 8. Mr. ...
- 9. Mr. ...
- 10. Mr. ...

URS

INTERNATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

URS CONSULTANTS, INC.

570 DELAWARE AVENUE
BUFFALO NEW YORK 14202 1207
716 883-5525
FAX 716 883 0754

October 19, 1990

Mr. John Munn
Quality Assurance Officer
Division of Hazardous Waste Remediation
NYSDEC
50 Wolf Road
Albany, New York 12233

RE: New York State Standby - WO #D002340-8
PAS O&M - Analytical Subcontract

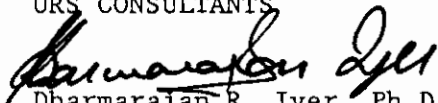
Dear Mr. Munn,

As directed by NYSDEC we are sending along with a copy of the unsigned analytical Subcontract Agreement for your approval. URS proposes to use this agreement for the analysis of groundwater, leachate, and sediment samples from the PAS Site by Recra Environmental, Inc. of Amherst, NY.

The first monitoring event under this Work Assignment is scheduled for Fall 1990, and we wish to conduct the sampling in the first week of November, as was previously done by NYSDEC. We would appreciate your expedited review of this agreement and comments/approval by October 26, 1990.

Very truly yours,

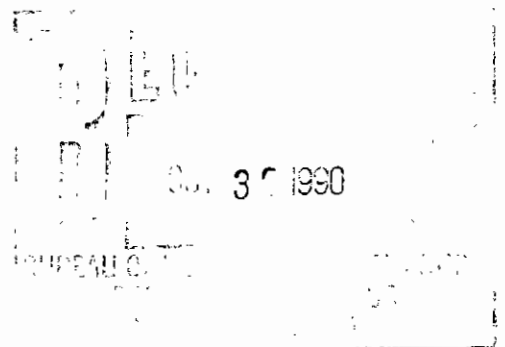
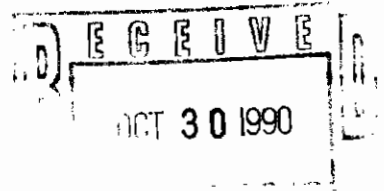
URS CONSULTANTS


Dharmarajan R. Iyer, Ph.D.
Project Manager

DRI/djc
enc.

10-19-90L
35236

cc: A.K. Gupta, NYSDEC (w/o attachments)
P.D. Smith, NYSDEC (w/o attachments)
J. Gorton, URS (w/o attachments)
C. Hurley, URS (w/o attachments)
T. Knickerbocker, URS



New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

November 7, 1990

Mr. Tom Knickerbocker
URS Consultants
570 Delaware Ave.
Buffalo, NY 14202-1207

Dear Mr. Tom:

Thank you for drawing my attention to the PAS workplan. The plan had not been reviewed by our section prior to approval and I also found the sampling and analytical description confusing. I therefore spoke with A.K. Gupta to clarify program objectives.

The original intentions, as outlined by the workplan, were to sample wells, a leachate composite, surface water and soils. Most samples were to be analyzed using SW-846 protocols and a summary form of reporting and deliverables, i.e., results only. One sample would be field selected for reporting under ASP Category A reporting requirements.

This conflicts with initial discussion between you and Maureen Serafini and documented in correspondence dated 6/22/90 where it was agreed results only would be provided; however, category A deliverables could be requested for a particular round of sampling.

Because the workplan as flawed, yesterday we agreed to modify the workplan reporting and deliverables requirements by eliminating the Category A requirements and instead request that all samples be reported as described below. I feel we will increase the level of quality assurance for the project by requiring all samples to have quality control parameters reported with sufficient information to evaluate each sample. This substantially changes the approved workplan and has the approval of A.K. Gupta.

For each sample run under ⁸⁴⁶SW856 protocols for volatiles and semivolatiles (Methods 8240/8270) the lab should provide:

1. Results summary (for TCL analytes and tentatively identified compounds)
2. Chromatogram (total ion)
3. Quantitation report for TCL analytes and TIC's, listing as a minimum retention time, hits for TCL analytes and peak areas

For each batch of samples run, the lab should summarize:

1. Surrogate percent recovery for each sample surrogate.
2. Internal standard areas for each sample
3. Method blanks and their associated samples.
4. Matrix spike and matrix spike duplicate summary listing percent recovery and relative percent difference for each spiked analyte.
5. QC Check Standard recovery results.

One additional consideration not discussed was that the SW846 methods require a QC Check Standard. Its recovery results should be provided.

Additional points to note:

The lab will follow all SW846 program requirements. For reporting purposes, the MS/MSD and blanks shall be considered samples.

The lab must archive all appropriate raw data so that results may be regenerated if required at additional cost.

For sediment samples, a MS/MSD analysis is only to be run with the last sampling round. Ground and surface waters shall be considered the same analytical mix and therefore require only one MS/MSD analysis per round. MS/MSD samples shall be designated by the field sampling team.

Recra should provide you with its SW846 method detection, accuracy and precision limits for surrogates and target compound list analytes since these are required by the method and will be needed by you to evaluate results. In addition, SW846 requires all analytes to be spiked into the sample, which is different than CLP.

I realize these comments may raise new issues and that time is of the essence. If you have any questions or problems with this approach please call me.

Sincerely,

John Munn
Chemist
Bureau of Hazardous Site Control
Div. of Hazardous Waste Remediation

cc: M. Serafini
A.K. Gupta

URS

cc John Munn

URS CONSULTANTS, INC.

1000 PENNSYLVANIA AVENUE, N.W.

WASHINGTON, D.C. 20004

11/19/99

Mr. John Munn
Chemist

Bureau of Health and Site Control
50 Wolf Road
Albany, New York 12242

Dear Mr. Munn:

Reference is made to your letter of 11/18/99.

The information provided in your letter regarding the location of the site is being reviewed. The location of the site is being reviewed in the context of the current edition.

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Mr. John Munn
November 16, 1990
Page 2

It is our hope that you will find the information regarding the additions to the contract agreement helpful. If you have any questions, please contact Tom Knickerbocker.

Sincerely,

URS CONSULTANTS, INC.

Mary E. Bitka
Senior Environmental Chemist

MFB/ys

11-16-90.DEC
35236.00

- cc: M. Serafini - NYSDEC
- A.K. Gupta - NYSDEC
- D. Iyer - URS
- T. Knickerbocker - URS
- File: 35236.00 (4000)

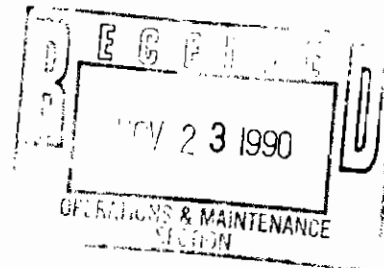
New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

November 20, 1990

Ms. Mary Bitka
URS
570 Delaware Ave.
Buffalo, NY 14202



Dear Mary:

Thank you for your November 16th letter revision regarding the PAS laboratory subcontract understanding between URS and Recra Environmental.

The revision is in agreement with my understanding of yesterday's conversation with you regarding Recra's responsibilities under SW846 protocols.

If you have any questions please feel free to call me [(518) 457-3252].

Sincerely,

John R. Munn
Chemist
Bureau of Hazardous Site Control
Div. of Hazardous Waste Remediation

cc: M. Serafini
A. Gupta ✓

A.K. Gupta
NYSDEC



JOB NO. 35236

JOB TITLE Pollution Abatement Services O & M

MEMO OF TELECON

DATE 11/16/90 TELEPHONE # 1-518-457-3252

PERSON CALLING Mary Bitka PERSON CALLED John Munn

REPRESENTING URS Consultants REPRESENTING NYSDEC BAS

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: To establish whether
Recon Environmental would deliver along with the data package IDLs or MDLs

TEXT OF TELECON

John & I discussed whether there are differences between
instrument detection limits and method detection limits (IDLs & MDLs). There
is some analytical differences, but none ~~very~~ ^{that} would have a great
impact on the data. John agreed that IDLs would be acceptable
instead of MDLs (as previously reported in my letter of November 16, 1990)
I therefore revised my letter (see attached) as well as the
Laboratory Subcontract Agreement. IDLs will be calculated in
accordance with NYSDEC ASP-1989. If John did not call me back
within ten (10) minutes of this ~~set~~ telephone conversation, it will stand
confirmed.

cc: A.K. Gupta ✓ J. Munn D. Iyer M. Serafini
T. Knickerbocker File/CF



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS, INC.

570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202-1207
(716) 883-5525
FAX: (716) 883-0754

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NEW ORLEANS
SAN FRANCISCO
SAN MATEO
SEATTLE
WASHINGTON
WASHINGTON

November 16, 1990

Mr. John Munn
Chemist
New York State Department of Environmental Conservation
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation
50 Wolf Road
Albany, New York 12233

RE: NYS STANDBY CONTRACT D002340-8
POLLUTION ABATEMENT SERVICES SITE, OSWEGO, NEW YORK
LABORATORY SUBCONTRACT AGREEMENT

Dear Mr. Munn:

As we discussed on November 15, 1990, the PAS laboratory subcontract agreement with RECRA Environmental will require:

- 1.) The lab to deliver as part of the data package Method Detection Limits (MDL) calculated as defined in SW-846, 3rd edition.
- 2.) RECRA is instructed to report the contract required quantitation limits (CRQL) in accordance with NYSDEC ASP-1989, Exhibit C (pages C-11, 12 and C-33 through C-38).
- 3.) Matrix spikes, matrix spike duplicates and surrogate recoveries will be in accordance with NYSDEC ASP 1989 recovery limits. The spike compounds to be used for organic analyses are defined in Method 3500 of SW-846.

At some point during the project, URS will attempt to obtain from a source (i.e. chemical supplier or government agency) a performance evaluation (PE) standard for semivolatile analysis (at a minimum). It was agreed upon that this PE standard will be submitted to the laboratory as a sample and will be considered an additional billable item.

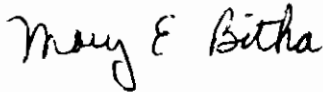
Since time is of the essence, you stated during our conversation that these additions to the subcontract agreement did not require your approval prior to the submission to the laboratory, therefore, we have forwarded the laboratory subcontract agreement to the laboratory for their immediate signature.

Mr. John Munn
November 16, 1990
Page 2

If you have any questions or comments regarding the additions to the contract agreement, please do not hesitate to contact myself or Tom Knickerbocker.

Sincerely,

URS CONSULTANTS, INC.



Mary E. Bitka
Senior Environmental Chemist

MEB/ys

11-16-90.DEC
35236.00

cc: M. Serafini - NYSDEC
A.K. Gupta - NYSDEC
D. Iyer - URS
T. Knickerbocker - URS
File: 35236.00 (4000)



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS, INC.

570 DELAWARE AVENUE
BUFFALO NEW YORK 14202-1207
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ANN ARBOR
CHICAGO
DALLAS
WASHINGTON, D.C.

November 16, 1990 (REVISED)

Mr. John Munn
Chemist
New York State Department of Environmental Conservation
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation
50 Wolf Road
Albany, New York 12233

RE: NYS STANDBY CONTRACT D002340-8
POLLUTION ABATEMENT SERVICES SITE, OSWEGO, NEW YORK
LABORATORY SUBCONTRACT AGREEMENT

Dear Mr. Munn:

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AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

Mr. John Munn
November 16, 1990
Page 2

If you have any questions or comments regarding the additions to the contract agreement, please do not hesitate to contact myself or Tom Knickerbocker.

Sincerely,

URS CONSULTANTS, INC.

A handwritten signature in cursive script that reads 'Mary E. Bitka'.

Mary E. Bitka
Senior Environmental Chemist

MEB/ys

11-16-90.DEC
35236.00

cc: M. Serafini - NYSDEC
A.K. Gupta - NYSDEC
D. Iyer - URS
T. Knickerbocker - URS
File: 35236.00 (4000)

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS, INC.

570 DELAWARE AVENUE
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(716) 883-5525
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VIRGINIA BEACH
WASHINGTON, D.C.

December 26, 1990

Mr. A. K. Gupta, P.E., Project Manager
Bureau of Western Remedial Action
Division of Hazardous Waste Remediation
NYS Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-7010

RE: NYS STANDBY CONTRACT D002340-8
POLLUTION ABATEMENT SERVICES O&M
SUBCONTRACT BID REQUIREMENTS

Dear Mr. Gupta:

As per your request during our phone conversation today, enclosed are copies of bid requests sent to qualified firms for the following O&M subcontract activities:

- o Leachate hauling and off-site disposal (Attachment 1)
- o Landscaping services (Attachment 2)
- o General maintenance services (Attachment 3)

Please contact us if you have any questions.

Very truly yours,

URS CONSULTANTS, INC.

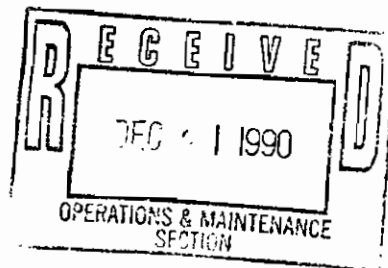


Dharmarajan R. Iyer, Ph. D.
Task Manager

DRI/ys
Enc.

12-26-90.DEC
35236.00

cc: P. David Smith - NYSDEC
C. Hurley - URS
File: 35236.00 (1000)



ATTACHMENT 1 LEACHATE HAULING AND
OFF-SITE DISPOSAL

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

DRI

URS CONSULTANTS, INC.

570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202-1207
(716) 883-5525
FAX: (716) 883-0754

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SAN MATEO
SEATTLE
VIRGINIA BEACH
WASHINGTON, D.C.

October 31, 1990

Mr. Norm Bock
Cecos International, Inc.
56 & Niagara Falls Boulevard
Niagara Falls, New York 14302

RE: POLLUTION ABATEMENT SERVICES (PAS) SITE
URS JOB NO. 35236

Dear Mr. Bock:

The New York State Department of Environmental Conservation (NYSDEC) has issued a work assignment to URS Consultants for the Operation and Maintenance (O&M) of the Pollution Abatement Services, Inc. (PAS) site, located near the eastern limit of the City of Oswego. The work assignment covers a period of three (3) years, from October 1990 through December 1993. Please kindly submit individual price quotes to perform the hauling and off-site disposal of collected leachate at the PAS site for a period of three years, as described below.

The 16.5 acre PAS site was operated as a high-temperature liquid chemical waste incineration facility from 1970 to 1977. When it was abandoned, the facility had approximately 12,000 drums and over 100,000 gallons of bulk chemical wastes in on-site storage. After a number of emergency removal and spill cleanup actions, the site was designated No. 7 on the USEPA's National Priorities List (NPL), and given the highest priority of all Superfund sites in New York State. Subsequently, the incinerator complex was demolished and all surficial wastes were removed from the site in 1982. Following a Remedial Investigation/Feasibility Study (RI/FS) by URS Consultants for the NYSDEC, the site was remediated in 1988. Specific remedial measures included the following:

- o Excavation and removal of buried drums and subsurface bulk storage tanks.
- o Construction of a slurry wall around approximately eight (8) acres of the site.
- o Construction of a leachate collection and groundwater recovery system.
- o Grading and final capping of the site.
- o Long-term groundwater monitoring.

A portion of this assignment includes the disposal of all leachate/groundwater collected from four (4) wells in the containment cell. Flow rates have been estimated at 250,000 gallons for the first year, decreasing after this time, due to the slurry wall and cap isolating the cell from additional ground- and rainwater influx. Water from the four wells is presently being pumped into a 24,000 gallon leachate collection tank.

Please kindly submit a price bid to include the following items:

1. HAULING

- o Identify type and size of truck/tanker to be used.
- o Identify the (approximate) frequency with which the tankers will visit the site (i.e., 1 truck every week vs. 4 trucks once a month).
- o Identify where and how far the leachate will be taken.
- o Identify fixed and unit (i.e. per mile) charges which lead to the quote for the hauling of the leachate.

2. DISPOSAL

- o Identify the facility at which the leachate will be disposed.
- o Identify the method by which the leachate will be disposed.
- o Identify fixed and unit (i.e. per gallon) charges which lead to the quote for disposal of the leachate.

3. ADDITIONAL TESTING (If deemed necessary)*

- o Identify any additional testing requirements to be performed to further characterize the leachate.
- o Identify any tests, either required or recommended, which may periodically be run on the leachate.

* - Please be advised that URS will be sampling the leachate every six months.


Waste hauling and disposal will be required beginning approximately the third or fourth week in November. Therefore, a response is necessary by November 12, 1990, so that bid data can be compiled and a decision can be reached by the middle of that week. Please feel free to FAX your reply, (716) 883-0754, with a hard copy to follow that transmission. Any additional questions can be directed to Darrin Costantini or myself at (716) 883-5525.

Enclosed with this letter is a map identifying site location. Also enclosed is a summary of leachate test results from our most recent sampling event. An example of our standard subcontract is also included. Please indicate your acceptance of the terms of this subcontract agreement along with your price quote. Please note that the NYSDEC must review and approve all subcontract agreements between URS and its subcontractors before contract signing.

Thank you for your time.

Very truly yours,

URS CONSULTANTS, INC.


Dharmarajan R. Iyer
Project Manager

SHOULD THE LETTER REVEAL
THAT THE LEACHATE IS JUST
SITTING IN AN UNDERGROUND
HOLDING TANK AND THEREFORE
A VAC TRUCK OR PUMPING
SYSTEM IS NEEDED?

Enc.

cc: D. Costantini
C. Hurley
File: 0025

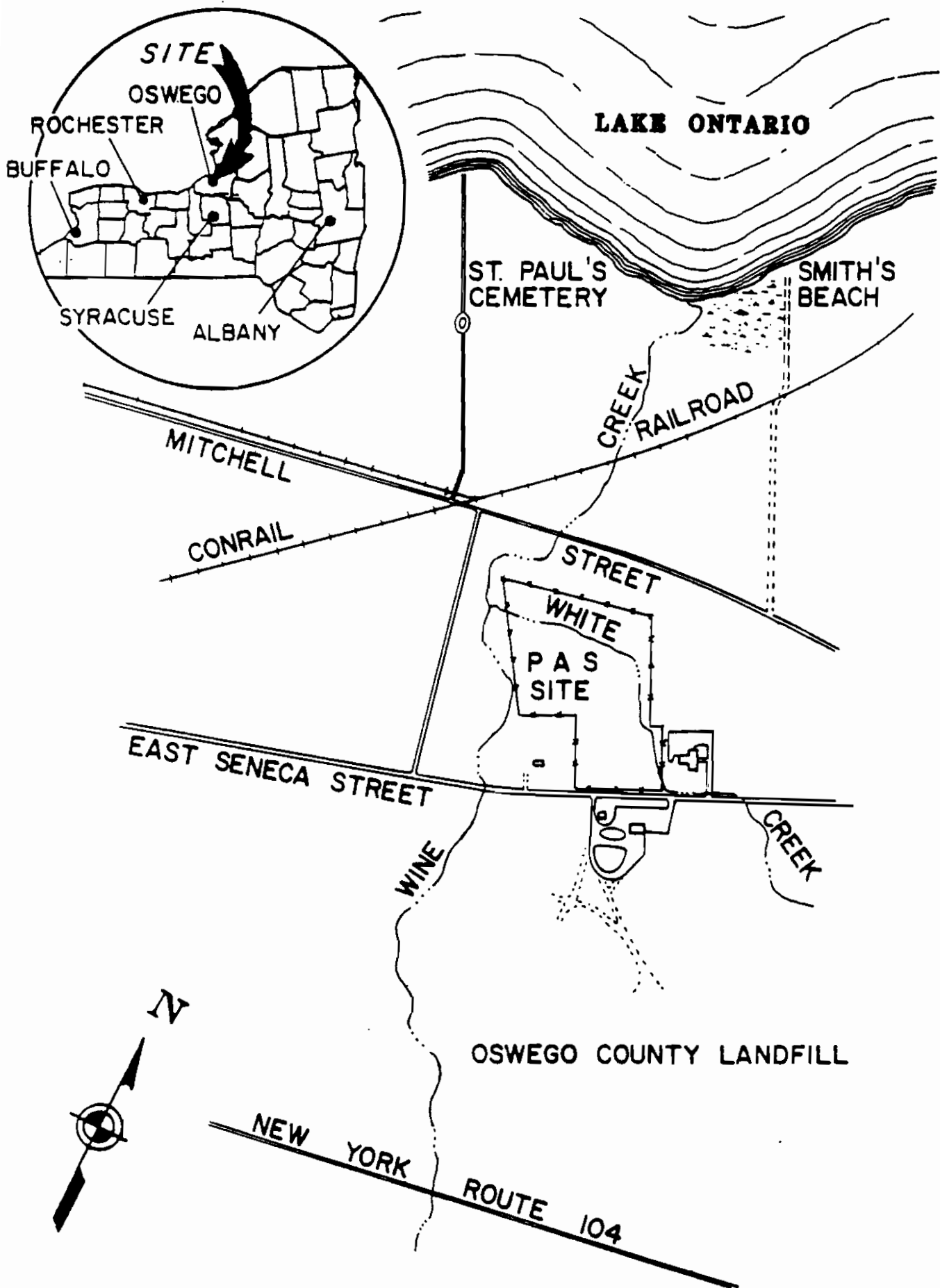


FIGURE 1 - LOCATION MAP

**POLLUTION ABATEMENT SERVICES
OSWEGO, NEW YORK**

**ANALYTICAL RESULTS FROM
LEACHATE SAMPLES**

VOLATILE COMPOUNDS	
Acetone	5,000
Benzene	1,400
2-Butanone	810
Chlorobenzene	2,900
Chloroform	87 J
1,1-Dichloroethane	620
1,2-Dichloroethane	470
1,2-Dichloroethylene (total)	17,000
Ethylbenzene	10,000
Methylene Chloride	1200 B
1,1,2,2-Tetrachloroethane	270
Tetrachloroethylene	47 J
Toluene	11,000
1,1,1-Trichloroethane	520
Vinyl Chloride	4,000
Xylenes (Total)	19,000
SEMIVOLATILE COMPOUNDS	
Phenol	650
1,2-Dichlorobenzene	120
2-Methylphenol	60
2,4-Dimethylphenol	50
Naphthalene	71
2-Methylnaphthalene	18 J
METALS/INORGANIC PARAMETERS	
Aluminum	81.7 B
Arsenic	47.0
Barium	849
Calcium	259,000
Chromium	7.2 B
Cobalt	22.4 B
Copper	14.2 B
Iron	32,800
Lead	3.5
Magnesium	49,500
Manganese	23,300
Nickel	570
Potassium	60,900
Sodium	121,000
Vanadium	18.9 B
Zinc	33.2

NOTES:

1. All concentrations are in ug/l, unless otherwise noted
2. J - Estimated Value
B - Compound found in blank.



While this site is a remediated hazardous waste site, all subcontractor field personnel should meet the training requirements as specified by OSHA Occupational Safety and Health Standards 29 CFR 1910.120. According to Section e.3.11 of 29 CFR 1910.20; "Workers on site only occasionally for a specific limited task (such as, but not limited to, ground water monitoring, land surveying, or geophysical surveying) and who are unlikely to be exposed over permissible exposure limits and published exposure limits shall receive a minimum of 24 hours of instruction off the site and the minimum of one day actual field experience under the direct supervision of a trained, experienced supervisor."

Please submit a price bid to include the following items:

- 1. **BUSH-HOGGING** Does this mean mowing?

Is this necessary?

The site shall be bush-hogged in November/December of 1990, and then bush-hogged not less than every six (6) weeks between May and November of 1991, 1992, and 1993. Cuttings shall then be raked and disposed of off-site. Please note that there has been no ground surface maintenance activities since the site was capped and vegetated in 1988.

- 2. **FERTILIZING** No herbicides! No pesticides.

The following schedule shall be followed for fertilizing the site:

April/May, 1991	-	Apply 400 lb/acre of 10-20-20
Sept./Oct., 1991	-	Apply 400 lb/acre of 15-15-15
April/May, 1992	-	Apply 400 lb/acre of 10-20-20
Sept./Oct., 1992	-	Apply 400 lb/acre of 15-15-15
April/May, 1993	-	Apply 400 lb/acre of 10-20-20

- 3. GENERAL MAINTENANCE

Any debris which may come to rest on the site shall be disposed of during the time that any of the other tasks are being performed. This debris includes branches, trees or the like which may fall or be blown onto the site.

The concrete drainage trenches shall be kept free of debris. The French Drain shall also be kept free of debris and soil build-up by use of a snake, so that surface water may flow freely.

- 4. **SNOW REMOVAL** Any chance of having Region 7 do this on an "as needed" basis?

Snow removal shall be performed on the semi-circular roadway and small parking area leading from East Seneca Street, to the leachate collection tank, and back to East Seneca Street so that the tank is accessible to any truck which may arrive at the site to remove leachate. Plowing shall be performed whenever more than two (2) inches of snow falls.

DRIFTING SNOW COULD BE SIGNIFICANT HERE. 3" IS USUALLY SNOW EMERGENCY STANDARD



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

The first bush-hogging event is scheduled for November/December. Therefore, a response is necessary by November 12, 1990, so that bid data can be compiled and a decision can be reached by the middle of that week. Please feel free to FAX your reply, (716) 883 0754, with a hard copy to follow that transmission. Any additional questions can be directed to Darrin Costantini or myself at (716) 883-5525.

Enclosed with this letter are two (2) maps identifying site location and features. An example of our standard subcontract is also included. Please indicate your acceptance of the terms of this subcontract agreement along with your price quote. Please note that the NYSDEC must review and approve all subcontract agreements between URS and its subcontractors before contract signing.

Thank you for your time.

Very truly yours,

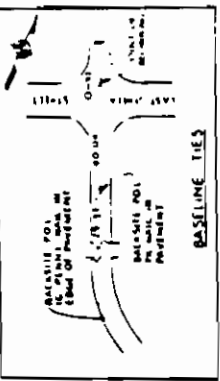
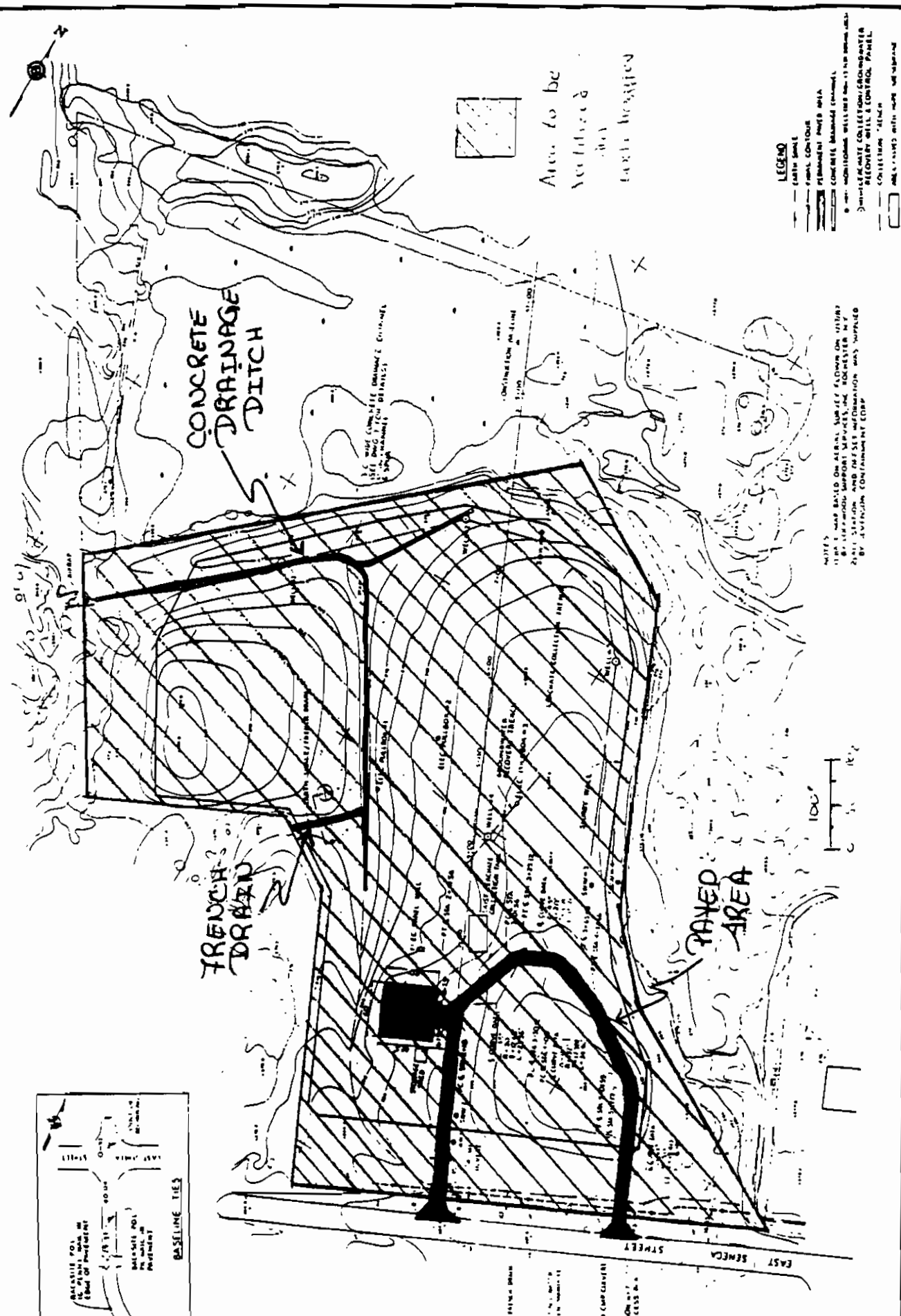
URS CONSULTANTS, Inc.

A handwritten signature in black ink, appearing to read 'Dharmarajan K. Iyer'.

Dharmarajan K. Iyer, Ph.D.
Project Manager

DRI/DJC/ys
3 Encl.

SITEMAIN.RFQ
35236.00 (0025-B)



P.A.S. 17' X 10' MECHANICAL ROOM SITE REMEDIATION MEASURES FINAL GRADING & MASTER SITE PLAN	
URS URS Company, Inc. 200 West 100th Street New York, NY 10025	DWG NO. 1

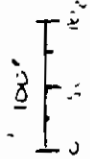
NOTES:
 1. THE PAVED AREA SHALL BE BUILT ON AGRICULTURAL FLOWERS ON 10/10/04
 2. THE FRENCH DRAIN SHALL BE BUILT ON 10/10/04
 3. THE CONCRETE DRAINAGE DITCH SHALL BE BUILT ON 10/10/04
 4. THE COLLECTOR DITCH SHALL BE BUILT ON 10/10/04
 5. THE EXISTING CONCRETE DRIVEWAY SHALL BE BUILT ON 10/10/04
 6. THE EXISTING BOUNDARY SHALL BE BUILT ON 10/10/04
 7. THE EXISTING BOUNDARY SHALL BE BUILT ON 10/10/04
 8. THE EXISTING BOUNDARY SHALL BE BUILT ON 10/10/04
 9. THE EXISTING BOUNDARY SHALL BE BUILT ON 10/10/04
 10. THE EXISTING BOUNDARY SHALL BE BUILT ON 10/10/04

Area to be
 vegetated
 with hay

CONCRETE
 DRAINAGE
 DITCH

FRENCH
 DRAIN

PAVED
 AREA



EAST SENeca STREET



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

Safety and Health Standards 29 CFR 1910.120. According to Section e.3.ii of 29 CFR 1910.20; "Workers on site only occasionally for a specific limited task (such as, but not limited to, ground water monitoring, land surveying, or geophysical surveying) and who are unlikely to be exposed over permissible exposure limits and published exposure limits shall receive a minimum of 24 hours of instruction off the site and the minimum of one day actual field experience under the direct supervision of a trained, experienced supervisor."

Please submit a unit price bid (i.e. per hour, per visit, per unit of material) to include the following items:

what about: leachate holding tank, 2ndary containment

1. MAINTAIN LEACHATE RECOVERY SYSTEM

- o When necessary, repair non-functioning pump, or replace non-functioning pump with on-site spare.
- o When necessary, repair pressure sensitive level controllers in recovery wells and to automatic autodialer, or replace with equivalent.
- o When necessary, repair and/or replace well riser and/or well casing.
- o When necessary, repair or replace defective portions of piping system from pumps to leachate recovery tank.
- o When necessary, make any repairs to electrical system which supplies power to pumps and control system.

IS THERE AN OLD MANUAL? WILL NEED TO KNOW EQUIPMENT SPEC'S BEFORE RIDING TO REPAIR ATTACHMENT 1 & 2

2. MAINTAIN ROADWAY

← loading pad @ tank?

When necessary, perform any requested repairs to circular roadway and/or small parking area leading from and to East Seneca Street.

DO YOU WANT THE SUB. TO TAKE ENOUGH LEVEL READINGS ALSO?

3. MAINTAIN FENCE

← Signs?

When necessary, make any requested repairs to the chain-link fence which surrounds the site with equivalent materials.

A response is necessary by November 12, 1990, so that bid data can be compiled and a decision can be reached by the middle of that week. Please feel free to FAX your reply, (716) 883 0754, with a hard copy to follow that transmission. Any additional questions can be directed to Darrin Costantini or myself at (716) 883-5525.

Enclosed with this letter are four (4) maps identifying site location and features. Also included is a diagram of the well control system. An example of our standard subcontract is also included. Please indicate your acceptance of

Non-contaminated As per results I think OK should be fine & OK



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

the terms of this subcontract agreement along with your price quote. Please note that the NYSDEC must review and approve all subcontract agreements between URS and its subcontractors before contract signing.

Thank you for your time.

Very truly yours,

URS CONSULTANTS, Inc.

A handwritten signature in black ink, appearing to read 'Dharmarajan R. Iyer'.

Dharmarajan R. Iyer, Ph.D.
Project Manager

DRI/DJC/ys
Encl.

GENMAIN.RFQ
35236.00 (0025 - A)

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233

G. Rider
bcc: w/enc. - M. O'Toole (2)
C. Goddard
J. McKeon
D. Smith
M. Murray
w/o enc. - Bureau Directors
Section Chiefs

OCT - 9 1990

(Letter sent to attached list)

!address!

Dear !name!:

RE: Approval of Laboratory Services Subcontracts

As of July 5, 1990, the Department no longer maintains a New York State Department of Environmental Conservation (Division of Hazardous Waste Remediation) Technically Acceptable Laboratories List. Accordingly, the Department has determined that it is in the State's best interest to revise the procedures whereby analytical laboratories are approved for use as subcontractors.

In accordance with State law, the Department requires that all subcontracts be approved before work is initiated. Analytical laboratories used under your contract must demonstrate analytical capability in compliance with the NYSDEC Analytical Services Protocol. The Division Quality Assurance Officer is developing a new TAGM to provide you with guidance on what constitutes analytical capability. Until the guidance is officially adopted, the following outlines interim requirements to be followed:

1. All proposed laboratories must be certified by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) for the duration of the contract. Clarification concerning ELAP status can be obtained by contacting the New York State Department of Health at (518) 474-8519.
2. In accordance with sound contracting procedures, we recommend that the prime consultant should perform a responsiveness/responsibility review of the apparent low bidder to ascertain that the proposed laboratory will be able to perform satisfactorily and meet the requirements of the contract. For your reference, we have enclosed our laboratory audit checklist.
3. As prime consultant, you are responsible for the work performed by your subcontractors. Independent validation of laboratory results is required.


!name1!

Page 2

4. In accordance with the terms of your contract and applicable work plan, the Department will not reimburse your firm for costs of unacceptable laboratory services.

Should you have any questions regarding the above, please contact your project or contract manager.

Sincerely,



Michael J. O'Toole, Jr., P.E.
Director
Div. of Hazardous Waste Remediation

Enc.

Standby Consultant List

8/21/90

PRP

Mr. D. W. Lamb
Acres International Corporation
140 John James Audubon Parkway
Amherst, NY 14228-1180

Mr. Carlos Murawczyk
Gibbs & Hill, Inc.
11 Penn Plaza
New York, NY 10001-2059

Richard J. Hughto, Ph.D., P.E.
Rizzo Associates Engineering, P.C.
235 West Central Street
Natick, MA 01760

SSF

Mr. James Behan
Dunn Geoscience Corp.
12 Metro Park Road
Albany, NY 12205


Mr. Guy Vaillancourt
E.C. Jordan Co.
P.O. Box 7050
261 Commercial Street
Portland, ME 04112

Mr. Ronald Skare
Ecology & Environment, Inc.
368 Pleasantview Drive
Lancaster, NY 14086

Mr. W. Gary Christopher, P.E.
Engineering-Science, Inc.
290 Elwood Davis Road, Suite 312
Liverpool, NY 13088

Mr. Robert Wasp, P.E.
Metcalf & Eddy of New York, Inc.
303 South Broadway, Suite 318N
Tarrytown, NY 10591

Mr. John C. Gorton
URS Consultants, Inc.
570 Delaware Avenue
Buffalo, NY 14202-1207



Mr. Thomas Mahar
Dvirka & Bartilucci
6800 Jericho Turnpike
Syosset, NY 11791
(In process of negotiating
contract)

TRANSMITTAL SLIP

TO *Swapan Gupta,*

FROM *A-K Gupta.* DATE *9/4/90*

RE: *PAS Site WA D002340-83*

*Enclosed are copies of price quotes from six analytical
firms. Submitted by WRS in response to DEC's request
dated August 14, 1990.*

FOR ACTION AS INDICATED:

- Please Handle
- Prepare Reply
- Prepare Reply for _____
Signature
- Information
- Approval
- Prepare final/draft in _____ Copies
- Comments
- Signature
- File
- Return to me

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

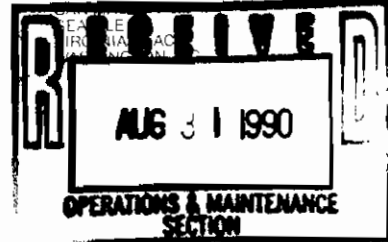
URS CONSULTANTS, INC.

570 DELAWARE AVENUE
BUFFALO, NEW YORK 14202-1207
(716) 883-5525
FAX (716) 883-0754

ALBANY
ALBUQUERQUE
ANN ARBOR
ARLINGTON
ATLANTA
AUSTIN
BALTIMORE
BOSTON
BUFFALO
COLUMBIANA
COLUMBUS
DENVER
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DENVILLE
DURHAM
HOUSTON
INDIANAPOLIS
IRVING
JACKSONVILLE
KANSAS CITY
LOS ANGELES
MEMPHIS
MIAMI
MINNEAPOLIS
NEW YORK
NEWARK
NEW ORLEANS
NEWPORT NEWS
PHOENIX
PITTSBURGH
RICHMOND
SAN FRANCISCO
SAN JOSE
SEATTLE
SHEPPARD
SOUTH BEND
TAMPA
TULSA
WASHINGTON
WICHITA
WILMINGTON

August 30, 1990

Mr. A.K. Gupta, P.E., Project Manager
Bureau of Western Remedial Action
Division of Hazardous Waste Remediation
NYS Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233



RE: POLLUTION ABATEMENT SERVICES SITE
W.A. D00234-8; SITE QUOTES FOR ANALYSIS SUBCONTRACT

Dear Mr. Gupta:

As per your request, enclosed are copies of the price quotes from the six analytical laboratories which were obtained for the proposed sample analysis subcontract.

Very truly yours,

URS CONSULTANTS, INC.

Dharmarajan R. Iyer, Ph.D.
Project Manager

DRI/dm
Enc.

8-30-90L.AKG
35216.08

cc: P. David Smith, NYSDEC
J. Gorton, URS (w/o attachment)
C. Hurley, URS (w/o attachment)
File: 35216.08 (0010)

**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ALBANY, NEW YORK**

**POLLUTION ABATEMENT SERVICES O & M
OSWEGO, NEW YORK
SITE ID #07-38-001**

ANALYTICAL LABORATORY QUOTES

**URS CONSULTANTS, INC.
BUFFALO, NEW YORK**



File
39216.08
(0025)

RECRA ENVIRONMENTAL, INC.

Chemical and Environmental Analysis Services

S8141

June 22, 1990

Mr. Thomas Knickerbocker
URS Consultants
570 Delaware Avenue
Buffalo, NY 14202-1207

Re: Analytical Services - PAS Site - Oswego, New York
Recra Environmental, Inc. Quotation #Q90-326

Dear Mr. Knickerbocker:

In response to your request, I am pleased to present the following quotation for analytical services.

Should you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Paul K. Morrow
Technical Sales Representative

PKM:mdl
Enclosure

S8141

Recra Environmental, Inc.
("Contractor")
SALES QUOTATION FORM
AND
AGREEMENT FOR ANALYTICAL SERVICES

Customer: URS Consultants

Date: June 22, 1990

Quotation Number: Q90-326

<u>Parameter Description</u>	<u>Method Number</u>	<u>Protocol</u>	<u>Unit Rate</u>	<u># of Samples</u>
<u>Aqueous/Soil Matrix</u>				
TCL Volatiles +10	8240	SW-846, 3rd Ed.	\$181.00	72/10
TCL Semi-Volatiles +20	8270	SW-846, 3rd Ed.	415.00	72/10
TCL Pesticide/PCB	8080	SW-846, 3rd Ed.	81.00	72/10
TAL Metals	6010/7000	SW-846, 3rd Ed.	179.00	72/10
Total Cyanide	9010	SW-846, 3rd Ed.	30.00	72/10
Hexavalent Chromium	6010/7000	SW-846, 3rd Ed.	20.00	72/10

<u>Aqueous Matrix</u>				
Biochemical Oxygen Demand	405.1	ASP NYSDEC	30.00	4
Chemical Oxygen Demand	410.1	ASP NYSDEC	30.00	4
Total Organic Carbon	415.1	ASP NYSDEC	20.00	4
Total Suspended Solids	160.1	ASP NYSDEC	10.00	4
Total Dissolved Solids	160.2	ASP NYSDEC	10.00	4
Total Kjeldahl Nitrogen	351.3	ASP NYSDEC	20.00	4
Total Phosphorus	365.2	ASP NYSDEC	10.00	4
<i>Total Phenols</i>			<i>15.00</i>	<i>5</i>

as per Paul Monow 6/25/90

Quality Control/Quality Assurance samples, such as trip blanks, field blanks, field replicates, rinsates, PCB confirmations on GC/MS, re-analysis due to matrix effects will be charged at unit rates. Bottles and shipping costs are included in the unit rates. This quotation is valid for three (3) years. Prices are subject to change with 30 days notice. Contractor's terms are net 30 days from date of invoice. Contractor will provide to Customer one original report. Matrix spike and matrix spike duplicate samples will not be chargeable if samples arrive in such a manner as to facilitate 10% of the total samples being analyzed as matrix spike and matrix spike duplicate.

THIS OFFER BY THE CONTRACTOR, TO PROVIDE THE ABOVE LISTED SERVICES IS EXPRESSLY CONDITIONED UPON THE CUSTOMER'S ASSENT TO ALL TERMS SET FORTH ABOVE AND IN THE ATTACHED TERMS AND CONDITIONS. THE CUSTOMER'S EXECUTION OF THIS SALES QUOTATION FORM OR DELIVERY OF SAMPLES TO CONTRACTOR SHALL CONSTITUTE ACCEPTANCE BY CUSTOMER OF THE ABOVE TERMS AND THE ATTACHED TERMS AND CONDITIONS.

CONTRACTOR: Recra Environmental, Inc.

Date: 6/22/90

By: Paul K Monow

Title: Technical Sales Representative

CUSTOMER: URS Consultants

Date: _____

By: _____

P.O. # _____

Title: _____



RECRA ENVIRONMENTAL, INC.

**RECRA ENVIRONMENTAL, INC.
TERMS AND CONDITIONS**

1. **STANDARD OF CARE AND LIMITATION OF LIABILITY.** Services rendered by RECRA under this Agreement shall be provided in accordance with that level of care and skill ordinarily exercised by members of its profession practicing under similar conditions and circumstances. RECRA's liability for any damage on account of any error, omission or other professional negligence will be limited to a sum not to exceed the contract price or Twenty-Five Thousand Dollars (\$25,000), whichever is less.
2. **RECRA INDEMNIFICATION.** RECRA hereby assumes all liabilities for and indemnifies, protects, saves and holds harmless Customer, Customer's directors, officers, employees and agents and Customer's corporate parents and affiliates and their directors, officers, employees and agents from and against any and all losses, costs, expenses, attorneys' fees, claims, demands, liabilities, suits, and actions of every kind and character for sickness, disease, personal injury, death, or property damage which may be imposed upon or incurred by Customer, Customer's directors, officers, employees and agents and Customer's corporate parents and affiliates and their directors, officers, employees and agents as a result of or arising from RECRA's willful misconduct, but not more than \$25,000 or the total proceeds paid by Recra's insurers for Customer's claims, losses and damages, whichever is greater.
3. **CUSTOMER INDEMNIFICATION.** Customer hereby assumes all liabilities for and indemnifies, protects, saves and holds harmless RECRA, RECRA's directors, officers, employees and agents and RECRA's corporate parents and affiliates and their directors, officers, employees and agents from and against any and all losses, costs, expenses, attorneys' fees, claims, demands, liabilities, suits, and actions of every kind and character for sickness, disease, personal injury, death, or property damage which may be imposed upon or incurred by RECRA, RECRA's directors, officers, employees and agents and RECRA's corporate parents and affiliates and their directors, officers, employees and agents as a result of or arising from Customer's negligence.
4. **CUSTOMER WARRANTY.** Customer hereby warrants that all representative samples shipped to RECRA shall be prepared for shipment and packaged in containers specified by, and marked in accordance with, all applicable statutes and regulations of the United States Department of Transportation, Environmental Protection Agency, and/or such successor and any other appropriate Federal, State and local governmental agencies.
5. **INSURANCE.** RECRA and Customer agree to furnish the other, upon request, with certificates attesting to the existence of insurance coverage with minimum limits as follows: (a) Workmen's Compensation - Statutory; (b) Comprehensive General Liability Bodily Injury and Property Damage - \$1,000,000 each occurrence/\$3,000,000 annual aggregate; (c) Comprehensive Automotive Liability Bodily Injury and Property Damage - \$1,000,000 each occurrence/\$3,000,000 annual aggregate; and (d) Contractual Liability. Each such certificate shall contain a statement of the insurer's obligation to notify the party to whom the certificate is addressed at least thirty (30) days prior to cancellation of any policy covered thereunder. To the extent permitted by law, RECRA or Customer may provide for all or part of the insurance coverage under a plan of self-insurance.
6. **FORCE MAJEURE.** obligations of either party under this Agreement shall be suspended, and such party shall not be liable for damages or other remedies while such party is prevented from complying therewith, in whole or in part, due to contingencies beyond its reasonable control, including, but not limited to, strikes, riots, war, fire, acts of God, injunction, compliance with any law, regulation or order, whether valid or invalid, of the United States of America or any other governmental body or any instrumentality thereof, whether now existing or hereafter created, inability to secure materials or obtain necessary permits, provided, however, the party so prevented from complying with its obligations hereunder shall promptly notify the other party thereof.
7. **PAYMENT.** Customer shall make payment at the office of RECRA specified on its invoices within thirty (30) days after the date of the invoice and shall, at RECRA's request, provide RECRA with a payment bond. RECRA may add to the invoice any excess copy charges, travel expenses, long distance telephone charges and special reproduction costs requested or approved by Customer. In the event RECRA has not received payment within thirty (30) days after the date of the invoice, Customer shall pay interest on the unpaid balance at the maximum rate allowed by law commencing on the thirty-first (31st) day after the date of invoice.
8. **SAMPLE DISPOSAL.** Unless Customer requests otherwise, unused portions of test samples submitted for analysis shall be disposed of immediately after report submission. Upon written request, RECRA may agree to retain said test samples for a mutually agreeable storage charge. RECRA reserves the right to return test samples to Customer or dispose of unused portions of test samples at Customer's expense.
9. **INDEPENDENT CONTRACTOR.** RECRA's relationship with Customer under this Agreement shall be that of an independent contractor. Nothing in this Agreement shall be construed to designate RECRA, or any of its employees or subcontractors, as employees, joint venturers or partners of Customer.
10. **SUBCONTRACTING.** RECRA shall have the right to subcontract any and all services, duties, and obligations hereunder, in whole or in part without the consent of Customer. Subcontractor(s) shall be bound by the same terms and conditions of performance as RECRA.
11. **COMPLIANCE WITH LAW.** In the performance of all services to be provided hereunder, RECRA and Customer agree to comply with all applicable federal, state and local laws and ordinances and all lawful orders, rules and regulations of any constituted authority.
12. **WAIVER.** No waiver by either party of any breach, default or violation of any term, warranty, representation, agreement, covenant, condition or provision hereof shall constitute a waiver of any subsequent breach, default or violation of the same or any other term, warranty, representation, agreement, covenant, condition or provision hereof. No waiver of any term, warranty, representation, agreement, covenant, condition or provision hereof shall be valid unless made in writing and signed by party against which such waiver is sought to be enforced.
13. **CONFIDENTIALITY.** RECRA shall hold in confidence and not disclose to others, except to its own employees on a "need-to-know" basis, business or technical information disclosed to RECRA by Customer or acquired by RECRA in the course of performing services hereunder for Customer and which Customer either marks as confidential or proprietary or requests in writing that RECRA treat as proprietary. The obligations of this paragraph shall survive the termination of this Agreement. The obligations of confidentiality do not apply to information which: (a) is or becomes part of the public domain; or (b) is lawfully in the possession of RECRA at the time it was acquired hereunder; or (c) is required to be publicly disclosed under the law.
14. **CHANGE ORDER.** The term "Change Order" as used herein is a written order to RECRA, signed by RECRA and Customer after execution of this Agreement authorizing a change in the services and/or prices and each change order shall be considered an amendment to the Agreement.
15. **TERM.** Unless sooner terminated or extended as provided herein, this Agreement shall remain in full force and effect from the date first above written until the date of completion of the services or either party becomes insolvent, makes an assignment for the benefit of creditors, or a bankruptcy petition is filed by or against it. Either party may terminate this Agreement at any time by giving written notice of such termination to the other party. Upon such a termination of this Agreement, Customer shall pay and reimburse RECRA for services rendered and costs incurred by RECRA prior to the effective date of termination and RECRA shall, at Customer's direction, either return to Customer or dispose of all sample materials and shall return to Customer all reports, data, records and other information developed or obtained by RECRA during the performance of services under this Agreement.
16. **ASSIGNMENT.** This Agreement is assignable by RECRA or Customer without the consent of the other party and shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns.
17. **SEVERABILITY.** The provisions of this Agreement shall be severable, and if any clause, sentence, paragraph, provision or other part hereof shall be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect, impair or invalidate the remainder hereof, which remainder shall continue in full force and effect.
18. **CAPIONS.** The captions herein are for convenience only and are not to be construed as a part of this Agreement, nor shall the same be construed as defining or limiting in any way the scope or intent of the provisions hereof.
19. **APPLICABLE LAW.** The validity, performance and construction of this Agreement shall be governed by and construed in accordance with the laws of the State of New York.
20. **SOLE AGREEMENT.** This Agreement and any attached exhibits contain and set forth the entire Agreement between RECRA and Customer with respect to the subject matter hereof, and supersede all prior negotiations and dealings with respect thereto, including, without limitation, letters of intent.
21. **WITHOUT REPRESENTATION OR WARRANTY.** RECRA MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, NOR ARE ANY SUCH WARRANTIES TO BE IMPLIED WITH RESPECT TO THE DATA OR SERVICE FURNISHED. RECRA ASSUMES NO RESPONSIBILITY WITH RESPECT TO CUSTOMER'S USE THEREOF.



RECRA ENVIRONMENTAL, INC.

Chemical and Environmental Analysis Services

file 35216-08 10/25

RECEIVED
URS CONSULTANTS

JUL 16 1990

JOB # 35216-08

S8141

July 11, 1990

Mr. Thomas Knickerbocker
URS Consultants
570 Delaware Avenue
Buffalo, NY 14202-1207

Re: Analytical Services - PAS Site - Oswego, New York
Recra Environmental, Inc. Quotation #Q90-326 Revised

Dear Mr. Knickerbocker:

In response to your request, I am pleased to present the following quotation for analytical services.

Should you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Paul K Morrow

Paul K. Morrow
Technical Sales Representative

PKM:mdl
Enclosure

*per Paul Morrow (RECRA) / P Faubanks (URS),
Unit Prices will be same for 20 GW samples/batch
Ded 8/28/90*

S8141

RECRA ENVIRONMENTAL, INC.
SALES QUOTATION FORM
AND
AGREEMENT FOR ANALYTICAL SERVICES

Customer: URS Consultants

Date: June 22, 1990

Quotation Number: Q90-326

<u>Parameter Description</u>	<u>Method Number</u>	<u>Protocol</u>	<u>Unit Rate</u>	<u># of Samples</u>
<u>Aqueous/Soil Matrix</u>				
TCL Volatiles +10	8240	SW-846, 3rd Ed.	\$181.00	72/10
TCL Semi-Volatiles +20	8270	SW-846, 3rd Ed.	415.00	72/10
TCL Pesticide/PCB	8080	SW-846, 3rd Ed.	81.00	72/10
TAL Metals	6010/7000	SW-846, 3rd Ed.	179.00	72/10
Total Cyanide	9010	SW-846, 3rd Ed.	30.00	72/10
Hexavalent Chromium	6010/7000	SW-846, 3rd Ed.	20.00	72/10

Aqueous Matrix

Biochemical Oxygen Demand	405.1	ASP NYSDEC	30.00	4
Chemical Oxygen Demand	410.1	ASP NYSDEC	30.00	4
Total Organic Carbon	415.1	ASP NYSDEC	20.00	4
Total Suspended Solids	160.1	ASP NYSDEC	10.00	4
Total Dissolved Solids	160.2	ASP NYSDEC	10.00	4
Total Kjeldahl Nitrogen	351.3	ASP NYSDEC	20.00	4
Total Phosphorus	365.2	ASP NYSDEC	10.00	4
<i>T. Tal Phenol</i>			<i>18.00</i>	<i>5</i>

*no per
P. Morrow
6/25/90*

NOTE: 20% markup for ASP NYSDEC "A" Protocol on the aqueous/soil matrix samples unless ASP price is already stated.

Quality Control/Quality Assurance samples, such as trip blanks, field blanks, field replicates, rinsates, PCB confirmations on GC/MS, re-analysis due to matrix effects will be charged at unit rates. Bottles and shipping costs are included in the unit rates. This quotation is valid for three (3) years. Prices are subject to change with 30 days notice. Contractor's terms are net 30 days from date of invoice. Contractor will provide to Customer one original report. Matrix spike and matrix spike duplicate samples will not be chargeable if samples arrive in such a manner as to facilitate 10% of the total samples being analyzed as matrix spike and matrix spike duplicate.

THIS OFFER BY THE CONTRACTOR, TO PROVIDE THE ABOVE LISTED SERVICES IS EXPRESSLY CONDITIONED UPON THE CUSTOMER'S ASSENT TO ALL TERMS SET FORTH ABOVE AND IN THE ATTACHED TERMS AND CONDITIONS. THE CUSTOMER'S EXECUTION OF THIS SALES QUOTATION FORM OR DELIVERY OF SAMPLES TO CONTRACTOR SHALL CONSTITUTE ACCEPTANCE BY CUSTOMER OF THE ABOVE TERMS AND THE ATTACHED TERMS AND CONDITIONS.

CONTRACTOR: Recra Environmental, Inc.

Date: 7-12-90

By: Paul K Morrow

Title: Technical Sales Representative

CUSTOMER: URS Consultants

Date: _____

By: _____

P.O. # _____



RECRA ENVIRONMENTAL, INC. TERMS AND CONDITIONS

1. **STANDARD OF CARE AND LIMITATION OF LIABILITY.** Services rendered by RECRA under this Agreement shall be provided in accordance with that level of care and skill ordinarily exercised by members of its profession practicing under similar conditions and circumstances. RECRA's liability for any damage on account of any error, omission or other professional negligence will be limited to a sum not to exceed the contract price or Twenty-Five Thousand Dollars (\$25,000), whichever is less.
2. **RECRA INDEMNIFICATION.** RECRA hereby assumes all liabilities for and indemnifies, protects, saves and holds harmless Customer, Customer's directors, officers, employees and agents and Customer's corporate parents and affiliates and their directors, officers, employees and agents from and against any and all losses, costs, expenses, attorneys' fees, claims, demands, liabilities, suits, and actions of every kind and character for sickness, disease, personal injury, death, or property damage which may be imposed upon or incurred by Customer, Customer's directors, officers, employees and agents and Customer's corporate parents and affiliates and their directors, officers, employees and agents as a result of or arising from RECRA's willful misconduct, but not more than \$25,000 or the total proceeds paid by Recra's insurers for Customer's claims, losses and damages, whichever is greater.
3. **CUSTOMER INDEMNIFICATION.** Customer hereby assumes all liabilities for and indemnifies, protects, saves and holds harmless RECRA, RECRA's directors, officers, employees and agents and RECRA's corporate parents and affiliates and their directors, officers, employees and agents from and against any and all losses, costs, expenses, attorney's fees, claims, demands, liabilities, suits, and actions of every kind and character for sickness, disease, personal injury, death, or property damage which may be imposed upon or incurred by RECRA, RECRA's directors, officers, employees and agents and RECRA's corporate parents and affiliates and their directors, officers, employees and agents as a result of or arising from Customer's negligence.
4. **CUSTOMER WARRANTY.** Customer hereby warrants that all representative samples shipped to RECRA shall be prepared for shipment and packaged in containers specified by, and marked in accordance with, all applicable statutes and regulations of the United States Department of Transportation, Environmental Protection Agency, and/or such successor and any other appropriate Federal, State and local governmental agencies.
5. **INSURANCE.** RECRA and Customer agree to furnish the other, upon request, with certificates attesting to the existence of insurance coverage with minimum limits as follows: (a) Workmen's Compensation - Statutory; (b) Comprehensive General Liability Bodily Injury and Property Damage - \$1,000,000 each occurrence/\$3,000,000 annual aggregate; (c) Comprehensive Automotive Liability Bodily Injury and Property Damage - \$1,000,000 each occurrence/\$3,000,000 annual aggregate; and (d) Contractual Liability. Each such certificate shall contain a statement of the insurer's obligation to notify the party to whom the certificate is addressed at least thirty (30) days prior to cancellation of any policy covered thereunder. To the extent permitted by law, RECRA or Customer may provide for all or part of the insurance coverage under a plan of self-insurance.
6. **FORCE MAJEURE.** Obligations of either party under this Agreement shall be suspended, and such party shall not be liable for damages or other remedies while such party is prevented from complying therewith, in whole or in part, due to contingencies beyond its reasonable control, including, but not limited to, strikes, riots, war, fire, acts of God, injunction, compliance with any law, regulation or order, whether valid or invalid, of the United States of America or any other governmental body or any instrumentality thereof, whether now existing or hereafter created, inability to secure materials or obtain necessary permits, provided, however, the party so prevented from complying with its obligations hereunder shall promptly notify the other party thereof.
7. **PAYMENT.** Customer shall make payment at the office of RECRA specified on its invoices within thirty (30) days after the date of the invoice and shall, at RECRA's request, provide RECRA with a payment bond. RECRA may add to the invoice any excess copy charges, travel expenses, long distance telephone charges and special reproduction costs requested or approved by Customer. In the event RECRA has not received payment within thirty (30) days after the date of the invoice, Customer shall pay interest on the unpaid balance at the maximum rate allowed by law commencing on the thirty-first (31st) day after the date of invoice.
8. **SAMPLE DISPOSAL.** Unless Customer requests otherwise, unused portions of test samples submitted for analysis shall be disposed of immediately after report submission. Upon written request, RECRA may agree to retain said test samples for a mutually agreeable storage charge. RECRA reserves the right to return test samples to Customer or dispose of unused portions of test samples at Customer's expense.
9. **INDEPENDENT CONTRACTOR.** RECRA's relationship with Customer under this Agreement shall be that of an independent contractor. Nothing in this Agreement shall be construed to designate RECRA, or any of its employees or subcontractors, as employees, joint venturers or partners of Customer.
10. **SUBCONTRACTING.** RECRA shall have the right to subcontract any and all services, duties, and obligations hereunder, in whole or in part without the consent of Customer. Subcontractor(s) shall be bound by the same terms and conditions of performance as RECRA.
11. **COMPLIANCE WITH LAW.** In the performance of all services to be provided hereunder, RECRA and Customer agree to comply with all applicable federal, state and local laws and ordinances and all lawful orders, rules and regulations of any constituted authority.
12. **WAIVER.** No waiver by either party of any breach, default or violation of any term, warranty, representation, agreement, covenant, condition or provision hereof shall constitute a waiver of any subsequent breach, default or violation of the same or any other term, warranty, representation, agreement, covenant, condition or provision hereof. No waiver of any term, warranty, representation, agreement, covenant, condition or provision hereof shall be valid unless made in writing and signed by party against which such waiver is sought to be enforced.
13. **CONFIDENTIALITY.** RECRA shall hold in confidence and not disclose to others, except to its own employees on a "need-to-know" basis, business or technical information disclosed to RECRA by Customer or acquired by RECRA in the course of performing services hereunder for Customer and which Customer either marks as confidential or proprietary or requests in writing that RECRA treat as proprietary. The obligations of this paragraph shall survive the termination of this Agreement. The obligations of confidentiality do not apply to information which: (a) is or becomes part of the public domain; or (b) is lawfully in the possession of RECRA at the time it was acquired hereunder; or (c) is required to be publicly disclosed under the law.
14. **CHANGE ORDER.** The term "Change Order" as used herein is a written order to RECRA, signed by RECRA and Customer after execution of this Agreement authorizing a change in the services and/or prices and each change order shall be considered an amendment to the Agreement.
15. **TERM.** Unless sooner terminated or extended as provided herein, this Agreement shall remain in full force and effect from the date first above written until the date of completion of the services or either party becomes insolvent, makes an assignment for the benefit of creditors, or a bankruptcy petition is filed by or against it. Either party may terminate this Agreement at any time by giving written notice of such termination to the other party. Upon such a termination of this Agreement, Customer shall pay and reimburse RECRA for services rendered and costs incurred by RECRA prior to the effective date of termination and RECRA shall, at Customer's direction, either return to Customer or dispose of all sample materials and shall return to Customer all reports, data, records and other information developed or obtained by RECRA during the performance of services under this Agreement.
16. **ASSIGNMENT.** This Agreement is assignable by RECRA or Customer without the consent of the other party and shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns.
17. **SEVERABILITY.** The provisions of this Agreement shall be severable, and if any clause, sentence, paragraph, provision or other part hereof shall be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect, impair or invalidate the remainder hereof, which remainder shall continue in full force and effect.
18. **CAPTION.** The captions herein are for convenience only and are not to be construed as a part of this Agreement, nor shall the same be construed as defining or limiting in any way the scope or intent of the provisions hereof.
19. **APPLICABLE LAW.** The validity, performance and construction of this Agreement shall be governed by and construed in accordance with the laws of the State of New York.
20. **SOLE AGREEMENT.** This Agreement and any attached exhibits contain and set forth the entire Agreement between RECRA and Customer with respect to the subject matter hereof, and supersede all prior negotiations and dealings with respect thereto, including, without limitation, letters of intent.
21. **EXPLICIT REPRESENTATION OR WARRANTY.** RECRA MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, NOR ARE ANY SUCH WARRANTIES TO BE IMPLIED WITH RESPECT TO THE DATA OR SERVICE FURNISHED. RECRA ASSUMES NO RESPONSIBILITY WITH RESPECT TO CUSTOMER'S USE THEREOF.



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

JOB NO. 35216.08

JOB NAME PAS OSWEGO

MEMO OF TELECON

DATE 8/28/90 TELEPHONE (716) 691-2600

PERSON CALLING PAUL MORROW PERSON CALLED _____

REPRESENTING DECRA ENVIRE. REPRESENTING _____

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Enquire if there is a price change for the decrease in number of water samples from 36 to 20.

TEXT OF TELECON

Mr. Morrow informed me that there would not be any price change as per PAS Quote originally sent.

cc: File DI. P.F.

File
35216.08
(0025)

TELECOPY TRANSMITTAL

FROM



TIME 12:30 DATE 6-22-90

SEND TO:

- (NAME) Thomas Knickerbocker
- (COMPANY) URS Consultants
- (TELECOPIER PHONE NUMBER) (716) 883-0754
- (CONFIRMING PHONE NUMBER) _____

THIS PAGE AND 3 ADDITIONAL PAGES TO FOLLOW

SENT BY: (YOUR NAME) Mark Hammersla

TELECOPIER OPERATOR: _____

VERSAR LONG DISTANCE ACCESS CODE: 956

PLEASE CHECK APPROPRIATE MESSAGE CENTER

VERSAR, INC.	PHASE I	<input type="checkbox"/>	TELECOPIER PHONE NUMBER CONFIRMING NUMBER	(703) 642-8807 (703) 750-3000 Ext. 311
VERSAR, INC.	PHASE II	<input type="checkbox"/>	TELECOPIER PHONE NUMBER CONFIRMING NUMBER	(703) 642-8843 (703) 750-3000 Ext. 278
		<input type="checkbox"/>	TELECOPIER PHONE NUMBER- TECHNICAL SERVICES GROUP CONFIRMING NUMBER	(703) 642-8810 (703) 750-3000 Ext. 347



June 22, 1990

Mr. Thomas Knickerbocker
URS Consultants, Inc.
570 Delaware Avenue
Buffalo, New York 14202-1207

Reference: Versar Quote No. Q90-5664
URS Job No. 35216-08-10000

Dear Mr. Knickerbocker:

Versar is pleased to submit our cost estimate to provide analytical services for the above-referenced project.

Please note that with regard to line item number 6 of your request for quote, Versar's payment terms are net 30 days with interest accruing at 1.5 percent per month on outstanding balances.

We look forward to working with URS on this project. Should you have any questions, please contact me at (703) 642-6760.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark R. Hammersla", is written over a horizontal line.

Mark R. Hammersla
Business Development Manager
Laboratory Operations

MRH/mar

Enclosure

TABLE I

ANALYTICAL SCHEDULES AND METHOD REFERENCES

Lab Versar, Inc.

1. Groundwater/Surface Water Samples

<u>PARAMETER</u>	<u>Method</u>	<u>Unit Price*</u>
TCL Volatiles + TICs	1	\$ <u>180</u>
TCL Semivolatiles + TICs	1	\$ <u>450</u>
TCL Pesticides/PCBs	1	\$ <u>225</u>
TAL Metals (incl. cyanide)	1	\$ <u>240</u>
Hexavalent Chromium	1	\$ <u>40</u>
	Subtotal	\$ <u>1,135</u>
	Matrix Total (36 water)	\$ <u>40,860</u>

2. Leachate Samples

<u>PARAMETER</u>	<u>Method</u>	<u>Unit Price</u>
BOD	2	\$ <u>40</u>
COD	2	\$ <u>30</u>
TOC	2	\$ <u>35</u>
TSS	2	\$ <u>15</u>
TDS	2	\$ <u>15</u>
TKN	2	\$ <u>40</u>
P	2	\$ <u>25</u>
	Subtotal	\$ <u>200</u>
	Matrix Total (2 samples)	\$ <u>400</u>

47,660

3. Sediment Samples (5 sediment)

<u>PARAMETERS</u>	<u>METHOD</u>	<u>Unit Price *</u>
TCL Volatiles + TICs	1	\$ <u>200</u>
TCL Semivolatiles + TICs	1	\$ <u>500</u>
TCL Pesticides/PCBs	1	\$ <u>230</u>
TAL Metals (incl. cyanide)	1	\$ <u>240</u>
Total Phenol	1	\$ <u>50</u>
Hexavalent Chromium	1	\$ <u>60</u>
	Subtotal	\$ <u>1,280</u>
	Matrix Total (5 sediment)	\$ <u>6,400</u>

Reference

1. Test methods for Evaluating Solid Waste - Physical/Chemical Methods, SW846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Service Procedures - September 1989.

*Prices are valid through June 30, 1991. For subsequent years, a 7 percent per annum escalation in unit rates will apply.

TELECOPY TRANSMITTAL

FROM



TIME 1220 DATE 7/10

- SEND TO:**
- (NAME) Tom Knickerbocker
 - (COMPANY) URS
 - (TELECOPIER PHONE NUMBER) 716-883-0754
 - (CONFIRMING PHONE NUMBER) _____

THIS PAGE AND 3 ADDITIONAL PAGES TO FOLLOW

SENT BY: (YOUR NAME) Mark Hammersta

TELECOPIER OPERATOR: _____

VERSAR LONG DISTANCE ACCESS CODE: 6-956

PLEASE CHECK APPROPRIATE MESSAGE CENTER

VERSAR, INC. PHASE I	<input type="checkbox"/>	TELECOPIER PHONE NUMBER CONFIRMING NUMBER	(703) 642-8807 (703) 750-3000 Ext. 311
VERSAR, INC. PHASE II	<input type="checkbox"/>	TELECOPIER PHONE NUMBER CONFIRMING NUMBER	(703) 642-8843 (703) 750-3000 Ext. 278
	<input type="checkbox"/>	TELECOPIER PHONE NUMBER- TECHNICAL SERVICES GROUP CONFIRMING NUMBER	(703) 642-8810 (703) 750-3000 Ext. 347

7/10/90

Tom -

With regard to PHS-Omega, only the parameters strictly applicable to ~~some~~ "ASP-Superfund Category" require a price adjustment.

Maud Hammer

Per discussions between M. Hammer (Versar) / P. Fairbanks (URS),
list prices will be the same for 20 GW samples
8/28/90 JRP

LABORATORY SERVICES QUOTE/CONTRACT



6850 VERSAR CENTER, P.O. Box 1549
SPRINGFIELD, VA 22151
(703) 750-3000

QUOTE/CONTRACT NO. 5664-90 External

Page 1 of 2

QUOTE DATE 10-JUL-90

VERSAR AUTHORIZED REP. HAMMERSLA

CLIENT URS CONSULTANTS

CONTACT TOM KNICKERBOCKER

ADDRESS 370 DELAWARE AVENUE
BUFFALO, NY 14202

PHONE 716-883-5525

PAYMENT TERMS NET 30 DAYS PREPAYMENT

SCOPE OF WORK

Versar shall provide the following laboratory services. The unit prices are based upon the estimated number of samples identified below. Changes in this estimate will be governed by Clause 6 of the General Conditions.

PARAMETER	METHOD	MATRIX	ESTIMATED NO. OF SAMPLES	UNIT PRICE PER SAMPLE	EXTENDED AMOUNT
VOLATILES	89-ASP	HOH	1	\$225.00	\$225.00
BN/ACIDS	89-ASP	HOH	1	\$500.00	\$500.00
PEST/PCB	89-ASP	HOH	1	\$250.00	\$250.00
TAL-METALS	89-ASP	HOH	1	\$215.00	\$215.00
VOLATILES	89-ASP	SOIL	1	\$250.00	\$250.00
BN/ACIDS	89-ASP	SOIL	1	\$550.00	\$550.00
PEST/PCB	89-ASP	SOIL	1	\$250.00	\$250.00
TAL-METALS	89-ASP	SOIL	1	\$225.00	\$225.00
VOA + TICS	8240	HOH	36	\$180.00	\$6,480.00
BNA + TICS	8270	HOH	36	\$450.00	\$16,200.00
PEST/PCBS	8080	HOH	36	\$225.00	\$8,100.00
CLP METALS	SW846	HOH	36	\$205.00	\$7,380.00
TOTAL CN CLP	CLP 788	HOH	36	\$35.00	\$1,260.00
HEX CR	6010	HOH	36	\$40.00	\$1,440.00
BOD - IMMED		HOH	2	\$40.00	\$80.00
CHEM OXY DEM		HOH	2	\$30.00	\$60.00
TOT ORG C		HOH	2	\$35.00	\$70.00

TOTAL _____

PROJECTED RECEIPT DATE _____ TURNAROUND _____

QUALITY CONTROL

DELIVERABLE

- Full Internal Quality Control
- Full Internal and Client Specific Billable Quality Control
- Other _____

- Full Data Package (CLP-Style)
- Summary Data Package
- Verbal Results
- Other _____

COMMENTS/SPECIAL REQUIREMENTS (Addendum Attached) _____
Continued on Next Page

YES NO

The above quoted prices will be effective for 60 days from the quote date. Shipment of samples to Versar for analyses shall constitute the Client's acceptance of all terms of this contract. The Client shall acknowledge receipt of this contract document by signing below and returning the green copy to Versar.

VERSAR, INC.

CLIENT ACKNOWLEDGEMENT

By: _____ Date: _____ By: _____ Date: _____

LABORATORY SERVICES QUOTE/CONTRACT



6850 VERSAR CENTER, P.O. Box 1549
 SPRINGFIELD, VA 22151
 (703) 750-3000

QUOTE/CONTRACT NO. 5664-90 External

Page 2 of 2

QUOTE DATE 10-JUL-90

VERSAR AUTHORIZED REP. HAMMERSLA

CLIENT URS CONSULTANTS
570 DELAWARE AVENUE

CONTACT TOM KNICKERBOCKER

ADDRESS BUFFALO, NY 14202

PHONE 716-883-5525

PAYMENT TERMS NET 30 DAYS

PREPAYMENT

SCOPE OF WORK

Versar shall provide the following laboratory services. The unit prices are based upon the estimated number of samples identified below. Changes in this estimate will be governed by Clause 6 of the General Conditions.

PARAMETER	METHOD	MATRIX	ESTIMATED NO. OF SAMPLES	UNIT PRICE PER SAMPLE	EXTENDED AMOUNT
TOT SUSP SOL		HOH	2	\$15.00	\$30.00
TOT DIS SOL		HOH	2	\$15.00	\$30.00
T K N		HOH	2	\$40.00	\$80.00
TOT PHOS		HOH	2	\$25.00	\$50.00
VOA + TICS	8240	SOIL	5	\$200.00	\$1,000.00
BNA + TICS	8270	SOIL	5	\$500.00	\$2,500.00
PEST/PCBS	8080	SOIL	5	\$230.00	\$1,150.00
CLP METALS	9W846	SOIL	5	\$205.00	\$1,025.00
TOTAL CN CLP	CLP 788	SOIL	5	\$35.00	\$175.00
PHENOLS		SOIL	5	\$50.00	\$250.00
HEX-CR	6010	SOIL	5	\$60.00	\$300.00

TOTAL \$50,125.00

PROJECTED RECEIPT DATE 01-JUL-90

TURNAROUND 21 DAYS

QUALITY CONTROL

DELIVERABLE

- Full Internal Quality Control
- Full Internal and Client Specific Billable Quality Control
- Other BILLABLE

- Full Data Package (CLP-Style)
- Summary Data Package
- Verbal Results
- Other SUMM + GC

COMMENTS/SPECIAL REQUIREMENTS (Addendum Attached)

YES NO

The above quoted prices will be effective for 60 days from the quote date. Shipment of samples to Versar for analyses shall constitute the Client's acceptance of all terms of this contract. The Client shall acknowledge receipt of this contract document by signing below and returning the green copy to Versar.

VERSAR, INC.

CLIENT ACKNOWLEDGEMENT

By: _____ Date: _____ By: _____ Date: _____

JOB NO. 35216.02

JOB NAME PAS Oswego

MEMO OF TELECON

DATE 8/28/90 TELEPHONE (703) 750-3000

PERSON CALLING MR. MARK Hamnersta PERSON CALLED _____

REPRESENTING VORSTAR Inc. REPRESENTING _____

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Price change for decrease
in granular sample number.

TEXT OF TELECON

Mr. Hamnersta informed URS that there would not
be an unit price change change if the number of
samples would decrease from 36 to 20.

cc: Fils DI PF



Fax # 214 # 3 0754

Iyer
35216 CE
(cc 25)

FACSIMILE COVER SHEET

DATE 6-25-90

TELECOPIER TO:

Tom Knickerbocker

TELECOPIER FROM:

Kathy Pasbach

INCLUDING THIS COVER PAGE - THIS MESSAGE CONTAINS 03 PAGES.
IF YOU HAVE ANY DIFFICULTIES IN RECEIVING THIS MESSAGE, PLEASE CALL
(203) 261-4458.

TOM
Hello! Here's the prices
I'll follow up w/ letter ASAP.
-Kathy

TABLE I

ANALYTICAL SCHEDULES AND METHOD REFERENCES

Lab York Laboratories

1. Groundwater/Surface Water Samples

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
TCL Volatiles + TICs	1	\$ <u>195</u>
TCL Semivolatiles + TICs	1	\$ <u>525</u>
TCL Pesticides/PCBs	1	\$ <u>180</u>
TAL Metals (incl. cyanide)	1	\$ <u>295</u>
Hexavalent Chromium	1	\$ <u>18</u>
	Subtotal	\$ <u>1,213</u>
	Matrix Total (36 water)	\$ <u>43,668</u>

2. Leachate Samples

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
BOD	2	\$ <u>24</u>
COD	2	\$ <u>32</u>
TOC	2	\$ <u>32</u>
TSS	2	\$ <u>16</u>
TDS	2	\$ <u>16</u>
TKN	2	\$ <u>28</u>
P	2	\$ <u>18</u>
	Subtotal	\$ <u>142</u>
	Matrix Total (2 samples)	\$ <u>284</u>

3. Sediment Samples (5 sediment)

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
TCL Volatiles + TICs	1	\$ <u>195</u>
TCL Semivolatiles + TICs	1	\$ <u>540</u>
TCL Pesticides/PCBs	1	\$ <u>185</u>
TAL Metals (incl. cyanide)	1	\$ <u>310</u>
Total Phenol	1	\$ <u>35</u>
Hexavalent Chromium	1	\$ <u>20</u>
	Subtotal	\$ <u>1,285</u>
	Matrix Total (5 sediment)	\$ <u>6,430</u>

Reference

1. Test methods for Evaluating Solid Waste - Physical/Chemical Methods. SW846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Service Protocols - September 1989.

Full TCL + TIC soil \$1265 /spl Superfund
 " " " " Water \$1235 /spl Per T.K

de per discussion retourner à Kasbach (VOC)/P Fourbrant's on 8/29/90
 No change in unit price due to reduction in GC samples
 from 30 to 20
 JED 8/29/90



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

JOB NO. 35216.08

JOB NAME PAS Oswego

MEMO OF TELECON

DATE 8/29/90 TELEPHONE (203) 261-4453

PERSON CALLING _____ PERSON CALLED KATHY RASBACH

REPRESENTING _____ REPRESENTING YORIC LABS

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Price change for decrease
in ground water sample number.

TEXT OF TELECON

Ms. Rasbach informed URS that there could not
be an unit price change if the number of samples
would decrease from 36 to 20. The original prices
reflect non ASP Category "A" prices and that an additional
increase would be added for Category "A" deliverables.

cc: File DI PF



ecology and environment, inc.

ANALYTICAL SERVICES CENTER, P.O. BOX D, BUFFALO, NEW YORK 14225, TEL. 716-631-0300
International Specialists in the Environment

June 22, 1990

Mr. Thomas Knickerbocker
URS Consultants, Inc.
570 Delaware Avenue
Buffalo, NY 14202

Dear Tom:

Ecology & Environment's Analytical Services Center (ASC) is pleased to respond to your request for quotation for laboratory services in support of the field effort at the PAS site in Oswego, New York.

A copy of our laboratory SOQ "Qualifications to Provide Laboratory Services" is on file at your office. Upon reviewing the SOQ you will find a listing of our certifications and accreditations including New York State Departments of Health (NYSDOH) and Environmental Conservation (NYSDEC).

Unit prices are provided in Table I for SW-846 3rd edition methods and NYSDEC September 1989 protocol for the general chemistry parameters. Reports will include tables of analytical results, the results of batch Q.C. and method blank results. Standard turnaround time is 4 weeks from receipt of samples. Prices quoted include sample containers and coolers shipped to your office in Buffalo, New York. URS will provide for return shipment.

E & E thanks you for the opportunity to provide this quotation. Any questions should be directed to the undersigned.

Sincerely,


Tony Bogolin
ASC Project Manager

TB:tlc

RECEIVED
URS CONSULTANTS
JUN 26 1990
JOB# 35210 EE
(C.C.25)

TABLE I

ANALYTICAL SCHEDULES AND METHOD REFERENCESLab Ecology & Environment, Inc.

1. Groundwater/Surface Water Samples

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
TCL Volatiles + TICs*	1	\$ <u>325</u>
TCL Semivolatiles + TICs*	1	\$ <u>590</u>
TCL Pesticides/PCBs	1	\$ <u>150</u>
TAL Metals (incl. cyanide)	1	\$ <u>325</u>
Hexavalent Chromium	1	\$ <u>30</u>
	Subtotal	\$ <u>1420</u>
	Matrix Total (36 water)	\$ <u>51120</u>

* Not to exceed 10 TIC's per fraction

2. Leachate Samples

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
BOD	2	\$ <u>30</u>
COD	2	\$ <u>15</u>
TOC	2	\$ <u>20</u>
TSS	2	\$ <u>10</u>
TDS	2	\$ <u>15</u>
TKN	2	\$ <u>25</u>
P	2	\$ <u>18</u>
	Subtotal	\$ <u>133</u>
	Matrix Total (2 samples)	\$ <u>266</u>

3. Sediment Samples (5 sediment)

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
TCL Volatiles + TICs *	1	\$ <u>350</u>
TCL Semivolatiles + TICs *	1	\$ <u>590</u>
TCL Pesticides/PCBs	1	\$ <u>150</u>
TAL Metals (incl. cyanide)	1	\$ <u>355</u>
Total Phenol	1	\$ <u>30</u>
Hexavalent Chromium	1	\$ <u>50</u>
	Subtotal	\$ <u>1525</u>
	Matrix Total (5 sediment)	\$ <u>7625</u>

* Not to exceed 10 TIC's per fraction

Reference

1. Test methods for Evaluating Solid Waste - Physical/Chemical Methods. SW846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Service Protocols - September 1989.

*As per discussions between G. Hahn (E&E) and P. Fairbanks (URS)
on 8/23/90, unit prices will be the same for 20 GW samples
DRE 8/29/90*



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

JOB NO. 35216.08

JOB NAME PAS Oswego

MEMO OF TELECON

DATE 8/28/90 TELEPHONE (716) 631-0360

PERSON CALLING Mr. Gary E. Hahn PERSON CALLED _____

REPRESENTING E & E REPRESENTING _____

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Price change for decrease
in groundwater sample number.

TEXT OF TELECON

Mr. Hahn informed URS that there would not
be an unit price change if the number of samples
would be decreased from 36 to 20.

cc: File P.I. R.F.

Lyle
35216.08



WADSWORTH/ALERT
LABORATORIES, INC.
Sampling, testing, mobile labs



(cc25)

FAX IT!

WADSWORTH/ALERT LABORATORIES, INC.
450 WILLIAM PITT WAY
BUILDING 6 , 3RD FLOOR
PITTSBURGH, PA 15238

TELEPHONE NUMBER: 1-412-826-5477
TELEFAX NUMBER: 1-412-826-5571

If there is any problem with this transmittal, please call. Thank you.

TO: TOM KNILKERBOKER DATE: 6/22/90
FROM: MIKE McDONNELL RE: FAS/OSWEGO QUOTE

TOTAL NUMBER OF PAGES FOLLOWING INCLUDING COVER SHEET: 3

COMMENTS: A FORMAL QUOTE Will Follow.

THANKS,
MIKE McDONNELL

35216.08

TABLE I

ANALYTICAL SCHEDULES AND METHOD REFERENCESLab WADSWORTH/ALERT LABORATORIES, INC.

1. STANDARD TAT 14 DAY VERBAL, 21 DAY HARD COPY
Groundwater/Surface Water Samples

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
TCL Volatiles + TICs	1	\$ <u>205.00</u>
TCL Semivolatiles + TICs	1	\$ <u>425.00</u>
TCL Pesticides/PCBs	1	\$ <u>170.00</u>
TAL Metals (incl. cyanide)	1	\$ <u>275.00</u>
Hexavalent Chromium	1	\$ <u>20.00</u>
	Subtotal	\$ <u>1,095.00</u>
	Matrix Total (36 water)	\$ <u>39,420.00</u>

2. Leachate Samples

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
BOD	2	\$ <u>30.00</u>
COD	2	\$ <u>25.00</u>
TOC	2	\$ <u>30.00</u>
TSS	2	\$ <u>15.00</u>
TDS	2	\$ <u>15.00</u>
TKN	2	\$ <u>30.00</u>
P	2	\$ <u>25.00</u>
	Subtotal	\$ <u>170.00</u>
	Matrix Total (2 samples)	\$ <u>340.00</u>

45 TSS Total

3. Sediment Samples (5 sediment)

<u>Parameters</u>	<u>Method</u>	<u>Unit Price</u>
TCL Volatiles + TICs	1	\$ <u>215.00</u>
TCL Semivolatiles + TICs	1	\$ <u>460.00</u>
TCL Pesticides/PCBs	1	\$ <u>195.00</u>
TAL Metals (incl. cyanide)	1	\$ <u>275.00</u>
Total Phenol	1	\$ <u>30.00</u>
Hexavalent Chromium	1	\$ <u>20.00</u>
	Subtotal	\$ <u>1195</u>
	Matrix Total (5 sediment)	\$ <u>5,975.00</u>

Reference

1. Test methods for Evaluating Solid Waste - Physical/Chemical Methods. SW846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Service Protocols - September 1989.



WADSWORTH/ALERT LABORATORIES, INC.
Sampling, testing, mobile labs



FAX IT!

WADSWORTH/ALERT LABORATORIES, INC.
450 WILLIAM PITT WAY
BUILDING 6 , 3RD FLOOR
PITTSBURGH, PA 15238

TELEPHONE NUMBER: 1-412-826-5477
TELEFAX NUMBER: 1-412-826-5571

If there is any problem with this transmittal, please call. Thank you.

TO: VIRGINIA WOLFANGER DATE: 7-16-90

FROM: JOHN FLAHERTY RE: QUOTE

TOTAL NUMBER OF PAGES FOLLOWING INCLUDING COVER SHEET: 2

COMMENTS: _____



**WADSWORTH/ALERT
LABORATORIES, INC.**
Sampling, testing, mobile labs

Since 1938

450 William Pitt Way/Pittsburgh, PA 15238/(412) 826-5477

July 16, 1990

URS Consultants, Inc.
570 Delaware Avenue
Buffalo, NY 14202-1207

Attn: Virginia Wolfanger

Dear Virginia:

In reference to our telephone conversation concerning the PAS project in Oswego, New York, there will be a 15% surcharge for CLP deliverables. Prices will be as given in the following table.

<u>PARAMETER</u>	<u>MATRIX</u>	<u>UNIT COST</u>
TCL Volatiles + TICs	groundwater/surface water	\$235.75
TCL Volatiles + TICs	sediment	\$247.25
TCL Semivolatiles + TICs	groundwater/surface water	\$488.75
TCL Semivolatiles + TICs	sediment	\$529.00
TCL Pesticides/PCB	groundwater/surface water	\$195.50
TCL Pesticides/PCB	sediment	\$224.25
TAL Metals (incl cyanide)	groundwater/surface water	\$316.25
TAL Metals (incl cyanide)	sediment	\$316.25

All other prices remain as previously quoted. Please call with any questions.

Sincerely,

Wadsworth/Alert Laboratories, Inc.

John M. Flaherty
John M. Flaherty
Laboratory Manager

JMF:gms

JOB NO. 35216-08

JOB NAME PAS Osage

MEMO OF TELECON

DATE 8/25/80 TELEPHONE (412) 826-5477

PERSON CALLING Mr. MICHAEL McDowell PERSON CALLED _____

REPRESENTING WADSWORTH/ALEKT LABS REPRESENTING _____

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Price change for decrease in groundwater sample number.

TEXT OF TELECON

Mr. McDowell informed URS that there would not be a unit price change if the number of samples would decrease from 36 to 20.

cc: File D.I. P.F.



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

File: 35216.08. 0010
cc: DR Iyer
P. Fairbanks

A full service analytical research laboratory offering solutions to environmental concerns

August 8, 1990
URS Consultants, Inc.
570 Delaware Avenue
Buffalo, NY 14202-1207

RECEIVED
URS CONSULTANTS
AUG 13 1990

JOB # _____

Attn: Mr. Peter Fairbanks

Re: Price Proposal for Analytical Services; PAS Site Oswego NY

Dear Mr. Fairbanks:

It was a pleasure speaking with you and would like to thank you for the opportunity to present this proposal for your consideration. The samples collected from the PAS Site in Oswego, NY will be analyzed either according to the 1989 New York State DEC Analytical Services Protocol and/or SW-846, Third Edition 1986. We will deliver a data package consistent with those requirements.

I understand that the sampling is scheduled to begin October of 1990 and will continue for a three (3) year period of time. As scheduling is a prime factor in our ability to maintain and insure Quality analysis, turnaround and data packages, if chosen, we request that we be kept up to date on the sample collection schedule.

Adirondack Environmental Services, Inc. will be responsible for the following services in the last quarter of 1990:

1. The Chemical Analysis of forty-six groundwater, surface, leachate and sediment samples for the parameters listed in the attached proposal.
2. All analysis will be performed by either Method 1 (SW-846) or Method 2 (NYSDEC Analytical Services Protocol - 1989) as determined by URS at the time of sample collection under the direction of the New York State DEC. The data package for any sample performed under Method 1 (SW-846) can be upgraded, upon request, to conform with New York State DEC Analytical Services Protocol including all QA/QC data and deliverables. The charge for this service would be the difference between quoted Method 1 and Method 2 for the specified parameter.
3. All samples containers, chemical preservatives, coolers and chain-of-custody documentation will be supplied to the URS office in Buffalo, NY.



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

4. A Statement of Qualifications is enclosed.
5. Our standard turnaround time for analytical results on projects of this scope is twenty eight (28) business days.
6. The QA / QC samples (Matrix Spike, Matrix Spike Duplicate, and Spiked Blank) will be charged as additional samples at the quoted parameter rate.
7. The prices quoted will remain in effect until December of 1991 at which time a 10 % increase will go in effect on an annual basis.

Thank you again for this opportunity. If you have any questions or require additional information please contact us at your convenience.

Very truly yours,
ADIRONDACK ENVIRONMENTAL SERVICES, INC.

A handwritten signature in cursive script that reads "Frank Scuderi, Jr." with a long, sweeping flourish at the end.

Frank Scuderi, Jr.
Laboratory Director

FSJ:mce

TABLE I

ANALYTICAL SCHEDULES AND METHOD REFERENCESLab Adirondack Environmental Services, Inc.

1. Groundwater/Surface Water Samples

<u>Parameters</u>	<u>Method</u>	<u>Method 2 Unit Price</u>	<u>Method 1</u>
TCL Volatiles + TICs	1	\$ <u>200.00</u>	\$185.00
TCL Semivolatiles + TICs	1	\$ <u>375.00</u>	\$350.00
TCL Pesticides/PCBs	1	\$ <u>150.00</u>	\$140.00
TAL Metals (incl. cyanide)	1	\$ <u>375.00</u>	\$350.00
Hexavalent Chromium	1	\$ <u>30.00</u>	\$ 25.00
	Subtotal	\$ <u>1130.00</u>	\$1050.00
	Matrix Total (36 water)	\$ _____	

2. Leachate Samples

<u>Parameters</u>	<u>Method</u>	<u>Method 2 Unit Price</u>	<u>Method 1</u>
BOD	2	\$ <u>25.00</u>	\$ 20.00
COD	2	\$ <u>25.00</u>	\$ 20.00
TOC	2	\$ <u>25.00</u>	\$ 20.00
TSS	2	\$ <u>15.00</u>	\$ 10.00
TDS	2	\$ <u>15.00</u>	\$ 10.00
TKN	2	\$ <u>30.00</u>	\$ 25.00
P	2	\$ <u>25.00</u>	\$ 20.00
	Subtotal	\$ <u>160.00</u>	\$125.00
	Matrix Total (4 samples)	\$ _____	

Adirondack Environmental Services, Inc. cont.

3. Sediment Samples (5 sediment)

<u>Parameters</u>	<u>Method</u>	<u>Method 2 Unit Price</u>	<u>Method</u>
TCL Volatiles + TICs	1	\$ 210.00	\$200.00
TCL Semivolatiles + TICs	1	\$ 385.00	\$375.00
TCL Pesticides/PCBs	1	\$ 160.00	\$150.00
TAL Metals (incl. cyanide)	1	\$ 385.00	\$375.00
Total Phenol	1	\$ 35.00	\$ 30.00
Hexavalent Chromium	1	\$ 35.00	\$ 30.00
	Subtotal	\$ 1210.00	\$1160.00
	Matrix Total (6 sediment)	\$ _____	

Reference

1. Test methods for Evaluating Solid Waste - Physical/Chemical Methods, SW846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Service Protocols - September 1989.



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

August 30, 1990

Mr. Peter Fairbanks
URS Consultants, Inc.
570 Delaware Ave.
Buffalo, NY 14202-1207

Re: URS Job #35216.08.10000

Dear Mr. Fairbanks:

Attached, please find a copy of the amended quotation for URS Job #35216.08.10000 PAS site in Oswego, NY. The change in price reflects the adjustment made in the number of groundwater / surface water samples that will be submitted for analytical work. As we understand, the matrix total has been reduced from 36 samples to 20 samples.

The revised prices for each of the parameters in the groundwater group are based on whether they are analyzed by Reference Method 1 or Reference Method 2.

If you have any questions please contact me at your convenience

Very truly yours,
ADIRONDACK ENVIRONMENTAL SERVICES, INC.

A handwritten signature in cursive script that reads "Frank Scuderi, Jr." The signature is written in dark ink and is positioned above the typed name.

Frank Scuderi, Jr.
Laboratory Director

FSJ:mce



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

URS CONSULTANTS, INC.
Amended Price Schedule

Table I
Analytical Schedules and Method References

1. Groundwater/Surface Water Samples -- Matrix Total 20

Parameters	Method 2 Unit Price	Method 1 Unit Price
TCL Volatiles + TICs	\$ 240.00	\$ 200.00
TCL Semivolatiles + TICs	\$ 450.00	\$ 385.00
TCL Pesticides/PCB's	\$ 180.00	\$ 150.00
TAL Metals (incl. cyanide)	\$ 450.00	\$ 385.00
Hexavalent Chromium	\$ 35.00	\$ 28.00
	SUBTOTAL \$ 1355.00	\$ 1148.00

Reference

1. Test Methods for Evaluating Solid Waste - Physical/Chemical Methods SW-846, Third Edition, 1986.
2. New York State Department of Environmental Conservation Analytical Services Protocols - September 1989.