Boeing Realty Corporation
4060 Lakewood Blvd., 6th Floor
Long Beach, CA 90808-1700
Telephone: (562) 627-3200
FAX: (562) 627-3109

RECEIVED
FEB - 3 2000
BOEING REALTY CORPORATION

CONTRACT FOR PROFESSIONAL SERVICES

January 14, 2000

Authorized to:
Mr. Mark W. Clardy
HARDING LAWSON ASSOCITES
30 Corporate Park Suite 400
Irvine CA 92606

Project: HARBOR GATEWAY- TORRANCE
Contract No.: **05160-HAR010**

BOEING

Dear Mr. Clardy;

This document constitutes your **Formal Authorization to Perform Work** for the above mentioned project in the amount **Not to Exceed $21,450.00. Scope of Work:** Monitoring Well Abandonment TMW-17, and BL-5 through BL-8. Refer to your proposals dated January 11, 2000. **Completion date: March 3, 2000. Total contract amount shall not exceed $21,450.00** subject to our receipt of:

- Executed copy of this letter
- W-9 Form per Exhibit C6- completed and return to our office.
- Current certificate of insurance evidencing your coverage for General Liability, Automobile Liability, and Worker's Compensation per Exhibit H.
- Copy of your Business License showing license number.

Any revisions to this contract will be issued by a Contract Amendment. Any work performed without such documentation is not formally authorized. All work is to be under the direction of and coordinated with Johnny Marasco at (562) 627-3078.

The following Exhibits are enclosed and are incorporated as part of this Work Authorization:

Exhibit C6:	W-9 MUST BE RECEIVED PRIOR TO PAYMENT BEING MADE. IF VENDOR HAS ALREADY SUMBITTED FORM WITH PRIOR CONTRACTS AND /OR ON FILE WITH BRC, PLEASE DISGARD.
Exhibit G:	BRC GENERAL CONDITIONS OF CONTRACT
Exhibit H:	INSURANCE ENDORSEMENT

When invoicing for this work, PLEASE REFER TO THE CONTRACT NUMBER AND PROJECT NAME NOTED ABOVE, and submit invoices to BOEING REALTY CORPORATION Attn: ACCOUNTING DEPARTMENT at 4060 Lakewood Blvd 6th Floor, Long Beach, CA 90808-1700. If Insurance Verification is required, payments are subject to a hold if not current.

Please sign your acceptance of this contract agreement at the location provided below and deliver the original to us for our file prior to commencement of work. Please mail to the Accounting Department at the Long Beach address.

Should you have any questions, please call our office at 562-627-3075.

Sincerely,
BOEING REALTY CORPORATION

MARIO STAVALE

Approved:

BRC MANAGEMENT

Your signature is acceptance to the above above noted conditions:

HARDING LAWSON ASSOCITES

R:witte\contract\HARDING05160-HAR010.doc Revised 4/2/99

2-3-00

Harding Lawson Associates

January 11, 2000

BP49311 00.1

Ms. Joann Ornelas
Integrated Environmental Services, Inc.
22932 El Toro Road
Lake Forest, California 92630

Revision No. 1
Confirming Proposal and Cost Estimate
Groundwater Sampling and Well Abandonment, Well TMW-17
Boeing C-6 Facility
Los Angeles, California

Dear Ms. Ornelas,

INTRODUCTION

Harding Lawson Associates (HLA) is pleased to submit this proposal to perform gauging, sampling, and well abandonment of temporary groundwater monitoring well TMW-17 located at the Boeing C-6 facility, 19503 South Normandie Avenue, Los Angeles, California. HLA's proposal has been prepared in response to Integrated Environmental Services, Inc. (IES) communications with HLA the week of on January 3, 2000. HLA understands that Boeing's objectives on this project are the following:

- Measure the groundwater level in Monitoring Well TMW-17
- Purge and collect a groundwater sample from Well TMW-17
- Abandon Well TMW-17 per Los Angeles Department of Health Services (DHS) guidelines.
- Present the results of the above activities in a letter report

Groundwater sampling will be performed in accordance with *Offsite Groundwater Characterization Workplan, Lockheed Martin Corporation/Former International Light Metals Facility, Los Angeles, California* (workplan), prepared by IES and dated December 1998. The following sections describe HLA's understanding of the project, and our approach toward achieving Boeing's objectives.

SCOPE OF SERVICES

The objective of this project is to provide sampling and abandonment of Well TMW-17 at the Boeing C-6 facility according to the guidelines of the workplan and the DHS. This project will involve the following tasks:

Project Preparation

The project preparation task will involve activities necessary to develop the proposal and proposed schedule, including subcontractor procurement and contacting the DHS for issuance of the well deconstruction permit. Prior to performing the fieldwork, HLA's California state-certified Industrial Hygienist (CIH) will prepare a project-specific Health and Safety Plan (HSP). The HSP will be prepared in accordance with applicable federal and/or state guidelines. The HSP will provide procedures to be followed in the event of emergency, and will establish the level of safety/exposure precaution to be followed by field personnel.

Field Activities

The field activities task includes gauging and collecting the required groundwater sample, transporting the sample to the analytical laboratory, abandoning the monitoring well, and the storage, removal, and disposal of all wastes

Engineering and
Environmental Services

2171 Campus Drive, Suite 100, Irvine, CA 92612 949/260-1800 Fax 949/260-1830

generated at the site. The general scope of field activities will be as follows:

Groundwater gauging, sampling, and analysis

- Gauge water level within temporary monitoring well TMW-17. Gauging will be accomplished using an electronic water level meter. Air monitoring for volatile organic compounds will be performed with a photoionization detector (PID) upon opening the well cap.

- Purge groundwater within the well. Purging will be accomplished using an electric submersible pump. Five well volumes will be purged from the well before sampling. New drinking-water grade polyethylene tubing will be used at the well for purging. We understand that the monitoring well is two-inches in diameter, and completed to a depth of about 80-feet.

- During well purging, the groundwater will be frequently monitored for field parameters including temperature, pH, turbidity, and electrical conductivity. Field logs will be maintained to document these parameters.

- Collect groundwater samples from Monitoring Well TMW-17. The sample will be collected using a new, disposable polyethylene bailer equipped with a low-flow bottom-emptying device. The samples will be decanted into 40-ml VOA vials and 500-ml polyethylene bottles and analyzed for trichloroethene (TCE) by EPA Method 8260 and for hexavalent chromium by EPA Method 7196, respectively. Chromium VI analyses will be performed for both total and dissolved concentrations. The dissolved fraction will be prepared by filtering in the field using a peristaltic pump and a disposable 0.45-micron filter.

- The sample will be transported to Orange Coast Analytical, Tustin, California, a state certified analytical laboratory. The hexavalent chromium analysis has a holding time of 24 hours; therefore the sample will be transported on the day of collection for testing. The sample will be handled and transported in a chilled ice chest under chain-of-custody protocol.

- All non-disposable sampling equipment will be decontaminated before each use by an Alconox detergent wash and double rinsing with distilled water. The submersible pump will be decontaminated by placing the pump in a container and pumping 20 gallons of potable water through it, and then rinsing again with distilled water. Decontamination fluids will be stored in 55-gallon drums for disposal after profiling.

Well Abandonment

- Abandon temporary Monitoring Wells TMW-17. The well will be abandoned by overdrilling the well casing, screen, grout, and sand pack using eight-inch diameter hollow stem auger equipment. After overdrilling, the boring will be backfilled through the augers with cement-bentonite grout from total depth to ten feet below ground surface (bgs), with the remaining borehole backfilled with concrete to the surface (or as directed by the DHS).

- An HLA geologist will be present to oversee the abandonment of the monitoring well. A PID will be used to for health and safety air monitoring during drilling. Field logs will be maintained to document all field activities.

- All drilling equipment will be decontaminated before use by steam cleaning.

Waste storage, hauling, and disposal

- Purge and decontamination water from the groundwater sampling and well abandonment activities will be stored in 55-gallon drums (provided by HLA) and will remain on-site pending receipt and evaluation of waste disposal profile test data. Costs quoted in this proposal assume that two 55-gallon drums of wastewater will be generated.

- Wastes from the well abandonment activities (well materials, sand pack, sealing materials) will be contained in a roll-off bin (provided by HLA) and will remain on-site pending receipt and evaluation of waste disposal profile test data. Costs quoted in this proposal assume that one ten yard bin will be required with a two-week rental rate.

- Profiling of the wastes generated from the above activities will be performed by BC Analytical, Bakersfield, California, and analyzed by EPA Method 8260, EPA Method 418.1, EPA Method 8082, and for Title 22 CAM Metals. Costs quoted in this proposal assume that two samples will be required, one from the wastewater drum and one from the soil bin.

- Upon receipt and evaluation of the analytical profiling test data, all wastes will be removed from the property for disposal. Costs quoted in this proposal assume that the waste will be disposed as a non-hazardous material.

Reporting

Upon receipt of the test results, HLA will prepare a letter report summarizing the groundwater sampling and well abandonment activities. The report will include a site plan of the well location, copies of the laboratory test data, and well deconstruction permit. The report will be prepared under the supervision of a California Registered Geologist. The reports will initially be prepared in draft form to allow for review and comment by IES. A final report will then be prepared based on comments by IES.

ASSUMPTIONS/EXCLUSIONS

The following assumptions and exclusions have been made in preparing this proposal:

- Unencumbered access to the site and wells
- Cost assumes Level D Personal Protective Equipment (PPE)
- Cost assumes a standard turn-around-time for all laboratory analyses
- Cost assumes waste transport and disposal as non-hazardous
- Cost assumes that the project fieldwork will occur concurrently with the closure of Wells BL-5 through BL-8
- Cost does not include allowances for delays due to underground utilities, regulatory agency intervention, adverse weather conditions, or conditions beyond our control

COST ESTIMATE AND SCHEDULE

The revised fixed-fee cost for the scope of services outlined above is $3,961, as detailed on the attached cost estimate spreadsheet. HLA is prepared to begin this investigation upon receipt of written authorization to proceed from Boeing. HLA is prepared to perform the groundwater sampling on January 14, 2000, and the well abandonment on January 17, 2000.

Thank you for the opportunity to present this revised confirming proposal. If you have any questions regarding this letter, please contact the undersigned at (949) 224-0050.

Very truly yours,
Harding Lawson Associates

Mark Clardy

Mark Clardy
Senior Geologist

Attachment: Cost Estimate, Revision No. 1, Well Sampling and Abandonment, Well TMW-17, Boeing C-6 Facility

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COST ESTIMATE

COST ESTIMATE, REVISION NO. 1
Well Sampling and Abandonment, Well TMW-17
Boeing Realty Corporation

TASK	*UNITS*	*RATE*	*SUBTOTAL*	*HANDLING*	*TOTAL*
MOBILIZATION/PREPARATION					
Project (*Clardy*)	0.5	$102.00	$51.00	0	$51.00
Staff (*Hovey*)	2.5	$72.00	$180.00	0	$180.00
Health & Safety Plan (*Hamaker*)	0.5	$112.00	$56.00	0	$56.00
Deconstruction Permits	1	$133.00	$133.00	10	$146.30
Communication/Reproduction (HLA Labor * 2%)	2.0%	$231	$4.62	0	$4.62
TOTAL MOBILIZATION					$438
HLA FIELD COSTS - *Estimate 1 Field Day*					
Staff (*Hovey*)	- 4	$72.00	$288.00	0	$288.00
Field Technician (*Palmer*)	3.5	$54.00	$189.00	0	$189.00
Field Technician (Wilcox)	2	$54.00	$108.00	0	$108.00
Field Vehicle (*per day*)	1	$80.00	$80.00	0	$80.00
Equipment Rentals-gw sampling	0.2	$300.00	$60.00	0	$60.00
Sampling supplies	0.2	$700.00	$140.00	0	$140.00
Communication/Reproduction (HLA Labor * 2%)	2.0%	$585	$11.70	0	$11.70
TOTAL HLA FIELD CHARGES					$877
DRILLING SUBCONTRACTOR (*THF Drilling*)					
Well Abandonment, 1 well	1	$1,260.00	$1,260.00	10	$1,386.00
TOTAL DRILLING SUBCONTRACTOR					$1,386
WASTE PROFILING HAULING, DISPOSAL SUBCONTRACTOR (*CWI*)					
Roll-off Delivery and Rental	0.2	$425.00	$85.00	10	$93.50
Laboratory Testing of Bin Samples, Water	0.2	$1,294.00	$258.80	10	$284.68
Waste Hauling, Disposal	0.2	$2,200.00	$440.00	10	$484.00
TOTAL WASTE SUBCONTRACTOR					$862
PROJECT MANAGEMENT/ADMINISTRATION					
Senior (*Clardy*)	1	$102.00	$102.00	0	$102.00
Administrative	0.5	$49.00	$24.50	0	$24.50
Communication/Reproduction (HLA Labor * 2%)	2.0%	$127	$2.53	0	$2.53
TOTAL PROJECT MANAGEMENT					$129
LETTER REPORT					
Senior (*Clardy*)	2	$102.00	$204.00	0	$204.00
Associate (*Papa*)	0.25	$112.00	$28.00	0	$28.00
Draftsperson	0.5	$63.00	$31.50	0	$31.50
Communication/Reproduction (HLA Labor * 2%)	2.0%	$264	$5.27	0	$5.27
TOTAL REPORTING					$269
PROJECT TOTAL					$3,961

NTE

Harding Lawson Associates

January 11, 2000

BP 49312 00.1

Ms. Joann P. Ornelas
Integrated Environmental Services, Inc.
22932 El Toro Road
Lake Forest, California 92630

Revision No. 1
Confirming Proposal and Cost Estimate
Groundwater Sampling and Well Abandonment, Wells BL-5 through BL-8
International Light Metals/Lockheed Martin Corporation Facility
Boeing Realty Corporation/ Lockheed Martin Corporation Joint Investigation
Los Angeles, California

Dear Ms. Ornelas,

INTRODUCTION

Harding Lawson Associates (HLA) is pleased to submit this revised proposal to perform gauging, sampling, and well abandonment of temporary groundwater monitoring wells located at the Boeing C-6 facility, 19503 South Normandie Avenue, Los Angeles, California. HLA's proposal has been prepared in response to Integrated Environmental Services, Inc. (IES) communications with HLA the week of January 3, 2000. HLA understands that Boeing's objectives on this project are the following:

- Collect groundwater level measurements from monitoring wells BL-1 through BL-8
- Purge and collect groundwater samples from Wells BL-5 through BL-8
- Abandon Wells BL-5 through BL-8 per Los Angeles Department of Health Services (DHS) guidelines.
- Present the results of the above activities in a letter report

The technical approach of our proposal is based on background information provided from a "Request for Closure of Offsite Wells" letter to the Department of Toxic Substances Control (DTSC) from TRC Environmental Solutions, Inc. (TRC) and on our previous experience in numerous similar projects throughout southern California. The groundwater sampling protocol will be based on *Offsite Groundwater Characterization Workplan, Lockheed Martin Corporation/Former International Light Metals Facility, Los Angeles, California*, prepared by IES and dated December 1998. The following sections describe HLA's understanding of the project, and our approach toward achieving BRC's objectives.

SCOPE OF SERVICES

The objective of this project is to provide sampling and abandonment of Wells BL-5 through BL-8 at the Boeing C-6 facility according to the guidelines of the DHS. This proposal is intended to serve as our work plan. The project will involve the following tasks:

Project Preparation

The project preparation task will involve activities necessary to develop the proposal/workplan including subcontractor procurement and contacting the DHS for the issuance of well deconstruction permits. Prior to performing the fieldwork, HLA's California state-certified Industrial Hygienist (CIH) will prepare a project-specific Health and Safety Plan (HSP). The HSP will be prepared in accordance with applicable federal and/or state guidelines. The HSP will provide procedures to be followed in the event of emergency, and will establish the level of safety/exposure precaution to be followed by field personnel.

Field Activities

The field activities task includes gauging and collecting the required groundwater samples, transporting the samples to the analytical laboratory, abandoning monitoring wells BL-5 through BL-8, and the storage, removal, and disposal of all wastes generated at the site. The general scope of field activities will be as follows:

Groundwater gauging, sampling, and analysis

- Gauge water levels within temporary monitoring wells BL-1 through BL-8 at the site. Gauging will be accomplished using an electronic water level meter. Air monitoring for volatile organic compounds will be performed with a photoionization detector (PID) upon opening the well cap.

- Purge groundwater within each of the four wells to be abandoned (BL-5 through BL-8). Purging will be accomplished by pumping using an electric submersible pump. Five well volumes will be purged from each well before sampling. New drinking-water grade polyethylene tubing will be used at each well for purging. We understand that each of the monitoring wells are two-inches in diameter, and completed to a depth of about 80-feet.

- During well purging, the groundwater will be monitored for field parameters including temperature, pH, turbidity, and electrical conductivity. Field logs will be maintained to document these parameters.

- Collect groundwater samples from each of the four monitoring wells. Chemical analysis will be performed by BC Analytical, Bakersfield, California, a state-certified laboratory. Samples will be collected using new, disposable polyethylene bailers equipped with a low-flow bottom-emptying device. Samples will be decanted into 40-ml VOA vials and 500-ml polyethylene bottles and analyzed for trichloroethene (TCE) by EPA Method 8260 and for hexavalent chromium by EPA Method 7196, respectively. Chromium VI analyses will be performed for both total and dissolved concentrations. The dissolved fraction will be prepared by filtering in the field using a peristaltic pump and disposable 0.45-micron filters. Quality assurance samples will include a trip blank, equipment rinsate blank, and a field blank as listed in the workplan. Costs quoted in this proposal assume that a total of seven samples will be analyzed on a standard turn-around-time basis.

- The samples will be transported via courier to BC Analytical in Bakersfield, California. The hexavalent chromium analysis has a holding time of 24 hours, therefore the samples will be transported for testing on the day of collection. The samples will be handled and transported in a chilled ice chest under chain-of-custody protocol.

- All non-disposable sampling equipment will be decontaminated before each use by an Alconox detergent wash and double rinsing with distilled water. The submersible pump will be decontaminated by placing the pump in a container and pumping 20 gallons of potable water through it, and then rinsing again with distilled water. Decontamination fluids will be stored in 55-gallon drums for disposal after profiling.

Well Abandonment

- Abandon temporary monitoring wells BL-5 through BL-8 at the site. The wells will be abandoned by overdrilling the well casing, screen, grout, and sand pack using eight-inch diameter hollow stem auger

equipment. After overdrilling, all borings will be backfilled through the augers with cement-bentonite grout from total depth to ten feet below ground surface (bgs), with the remaining borehole backfilled with concrete to the surface (or as directed by the DHS).

- An HLA geologist will be present to oversee the deconstruction of each monitoring well. A PID will be used to for health and safety air monitoring during drilling. Field logs will be maintained to document all field activities.

- All drilling equipment will be decontaminated before each use by steam cleaning.

Waste storage, hauling, and disposal

- Purge and decontamination water from the groundwater sampling and well abandonment will be stored in 55-gallon drums (provided by HLA) and will remain on-site pending receipt and evaluation of waste disposal profile test data. Costs quoted in this proposal assume that seven 55-gallon drums of wastewater will be generated.

- Wastes from the well abandonment activities (well materials, sand pack, sealing materials) will be contained in a roll-off bin (provided by HLA) and will remain on-site pending receipt and evaluation of waste disposal profile test data. Costs quoted in this proposal assume that one ten yard bin will be required with a two-week rental rate.

- Profiling of the wastes generated from the above activities will be performed by BC Analytical and analyzed by EPA Method 8260, EPA Method 418.1, EPA Method 8082, and for Title 22 CAM Metals. Costs quoted in this proposal assume that three samples will be required; one from the wastewater drums and two from the soil bin.

- Upon receipt and evaluation of the analytical profiling test data, all wastes will be removed from the property for disposal. Costs quoted in this proposal assume that the waste will be disposed as a non-hazardous material.

Reporting

Upon receipt of the test results, HLA will prepare a letter report summarizing the groundwater sampling and well abandonment activities. The report will include a site plan of the well locations, copies of the laboratory test data, and well deconstruction permits. The report will be prepared under the supervision of a California Registered Geologist. The reports will initially be prepared in draft form to allow for review and comment by IES. A final report will then be prepared based on comments by IES.

ASSUMPTIONS/EXCLUSIONS

The following assumptions and exclusions have been made in preparing this proposal:

- Unencumbered access to the site and wells
- Cost assumes Level D Personal Protective Equipment (PPE)
- Cost assumes waste transport and disposal as Non-Hazardous.

- Cost does not include allowances for delays due to underground utilities, regulatory agency intervention, adverse weather conditions, or conditions beyond our control

COST ESTIMATE AND SCHEDULE

The revised fixed-fee cost for the scope of services outlined above is $17,483, as detailed on the attached cost estimate spreadsheet. HLA is prepared to begin this investigation upon receipt of written authorization to proceed from Boeing. HLA is prepared to perform the groundwater sampling on Friday, January 14, 2000, and the well abandonment on Monday and Tuesday, January 17 and 18, 2000.

Thank you for the opportunity to present this revised confirming proposal. If you have any questions regarding this letter, please contact the undersigned at (949) 224-0050.

Very truly yours,
Harding Lawson Associates

Mark Clardy

Mark Clardy
Senior Geologist

Attachment: Cost Estimate, Revision No. 1, Well Sampling and Abandonment, Wells BL-5 through BL-8, International Light Metals/Lockheed Martin Corporation Facility

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COST ESTIMATE

COST ESTIMATE, REVISION NO. 1
Well Sampling and Abandonment, Wells BL-5 through BL-8
International Light Metals/Lockheed Martin Corporation Facility

TASK	*UNITS*	*RATE*	*SUBTOTAL*	*HANDLING*	*TOTAL*
MOBILIZATION/PREPARATION					
Senior (*Clardy*)	5	$102.00	$510.00	0	$510.00
Staff (*Hovey*)	9.5	$72.00	$684.00	0	$684.00
Health & Safety Plan (*Hamaker*)	2.5	$112.00	$280.00	0	$280.00
Deconstruction Permits	4	$133.00	$532.00	10	$585.20
Communication/Reproduction (HLA Labor * 2%)	2.0%	$1,474	$29.48	0	$29.48
TOTAL MOBILIZATION					$2,089
HLA FIELD COSTS - *Estimate 2 Field Days*					
Staff (*Hovey*)	16	$72.00	$1,152.00	0	$1,152.00
Field Technician (*Palmer*)	14.5	$54.00	$783.00	0	$783.00
Field Technician (*Wilcox*)	8	$54.00	$432.00	0	$432.00
Field Vehicle (*per day*)	3	$80.00	$240.00	0	$240.00
Equipment Rentals-gw sampling	0.8	$300.00	$240.00	0	$240.00
Sampling supplies	0.8	$700.00	$560.00	0	$560.00
Communication/Reproduction (HLA Labor * 2%)	2.0%	$2,367	$47.34	0	$47.34
TOTAL HLA FIELD CHARGES					$3,454
DRILLING SUBCONTRACTOR (*THF Drilling*)					
Well Abandonment, 4 wells	4	$1,260.00	$5,040.00	10	$5,544.00
TOTAL DRILLING SUBCONTRACTOR					$5,544
WASTE PROFILING HAULING, DISPOSAL SUBCONTRACTOR (*CWI*)					
Roll-off Delivery and Rental	0.8	$425.00	$340.00	10	$374.00
Laboratory Testing of Bin Samples, Water	0.8	$1,294.00	$1,035.20	10	$1,138.72
Waste Hauling, Disposal	0.8	$2,200.00	$1,760.00	10	$1,936.00
TOTAL WASTE SUBCONTRACTOR					$3,449
LABORATORY, GW INVESTIGATIVE AND WASTE DISPOSAL PROFILE ANALYSES - standard TAT (*BC Analytical*)					
TCE by EPA Method 8260	8	$150.00	$1,200.00	10	$1,320.00
Hexavalent Chromium by EPA Method 7196	14	$21.00	$294.00	10	$323.40
Courier	1	$100.00	$100.00	10	$110.00
TOTAL LABORATORY					$1,753
PROJECT MANAGEMENT/ADMINISTRATION					
Senior (*Clardy*)	4	$102.00	$408.00	0	$408.00
Administrative	1.5	$49.00	$73.50	0	$73.50
Communication/Reproduction (HLA Labor * 2%)	2.0%	$482	$9.63	0	$9.63
TOTAL PROJECT MANAGEMENT					$491
LETTER REPORT					
Project (Clardy)	5	$102.00	$510.00	0	$510.00
Associate (*Pape*)	0.75	$112.00	$84.00	0	$84.00
Draftsperson	1.5	$63.00	$94.50	0	$94.50
Communication/Reproduction (HLA Labor * 2%)	2.0%	$689	$13.77	0	$13.77
TOTAL REPORTING					$702
PROJECT TOTAL					***$17,483***

NTE