

Interoffice
Communication

TO: Charlie Dutra-LCCP

FROM: T. G. Grumbles
DATE: April 30, 1991

SUBJ: CONTRACTOR PROPOSALS FOR IH EVALUATION OF THE LABORATORY

TGG: JCL: FGJ: AC: AJO: RF

XF:

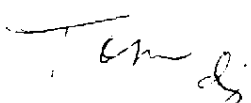
VISTA

As we discussed, I have reviewed the industrial hygiene portions of the OIHS, Inc., and Dames & Moore proposals. OIHS was not asked to prepare a proposal for the ventilation evaluation.

In summary, I believe that the OIHS, Inc. proposal is better based on the sampling strategy proposed. That proposal is very detailed in what contaminants will be sampled for and how frequently. This not only allows for a better estimate of costs but allows us to understand the potential usefulness of the results. Dames and Moore suggests they will take 20 to 30 samples. Based on the complexity of the operations in the laboratory and the wide range of chemicals, I don't believe that number of samples is sufficient to get a complete evaluation.

The costs associated with like services in both proposals is similar but OIHS, Inc.'s is lower overall.

This evaluation is a difficult one based on the large number of chemicals present and the variable operations. Those factors necessitate significantly more monitoring and observation than typical operator monitoring.


T. G. Grumbles

dlj

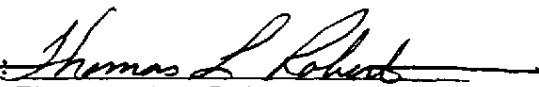
VVV 000006309

TSR*

INDUSTRIAL HYGIENE EVALUATION
for
VISTA CHEMICAL COMPANY

OIHS, INC. PROPOSAL # PH-0240990/ADDENDUM

PROPOSAL PREPARED BY:


Thomas L. Roberts, CIH
President

VVV 000006310

OCCUPATIONAL & INDUSTRIAL HEALTH SYSTEMS, INC.

Industrial Hygiene - Environmental Health Consulting

October 24, 1990



Ms. Diane M. Johnson
Acting Environmental Coordinator
Vista Chemical Company
P.O. Box 727
Westlake, Louisiana 70669

Re: OIHS, INC. Proposal # PH-0240990/ADDENDUM
Industrial Hygiene Evaluation

Dear Ms. Johnson,

Per your request of October 18, 1990, I am providing a total cost for the industrial hygiene evaluation of the Vista Chemical Laboratory. As we discussed in our meeting, this cost estimate is just that, a cost estimate. The variability of chemicals used and schedules followed by the chemical analyst make estimating the cost very difficult. But, as I promised, I tried.

I have attached a proposed monitoring schedule based on a three day survey. This would complete the initial sampling in each lab and represents one third of the total project. Organic vapor sampling would consist of charcoal tube, special charcoal tube, silica gel tube, and detector tube samples. The impinger samples have been deleted for this proposal. Daily observation during the initial evaluation may aid in determining the need for impinger monitoring at a later date.

For this proposal, I have included travel expenses, estimated report time, Certified Industrial Hygiene services, and industrial hygiene technician services.

VVV 000006311

PHASE I

Initial three (3) day evaluation

<u>Analytical Services</u>	
.....	\$ 1673.50
<u>Certified Industrial Hygienist</u>	
24 hours @ \$ 65.00/hr.....	\$ 1560.00
<u>Industrial Hygiene Technician</u>	
24 hours @ \$ 35.00/hr.....	\$ 840.00
3 hours @ \$ 47.25/hr.....	\$ 141.75
<u>Report Development</u>	
24 hours @ \$ 35.00/hr.....	\$ 840.00
<u>Per Diem</u>	
3 days @ \$100.00/day.....	\$ 300.00
<u>Mileage</u>	
360 miles @ \$.31/mi.....	\$ 111.60
TOTAL CHARGE	\$ 5466.85

PHASE II

Complete nine (9) day evaluation

The nine day evaluation is equivalent to three days of the above charges.

TOTAL CHARGE

\$ 5466.85 X 3.....\$ 16,400.55

VVV 000006312

I should note that Occupational & Industrial Health Systems, Inc. will work to minimize cost where possible; i.e., travel each day for mileage to reduce total per diem charge. Any days monitored that are different from the proposed schedule will be invoiced accordingly. We will work with you to minimize cost where possible, yet provide the essential information you require. As agree upon in our meeting, we will keep you advised as to the expenses incurred during this project to allow time for authorization of any add-ons.

If you have any questions regarding this estimate, please call.

Yours truly,



Thomas L. Roberts, CIH
President

Attachment (1)

TLR/sc

VVV 000006313

PROPOSED SCHEDULE

	<u>DAY 1</u>	<u>DAY 2</u>	<u>DAY 3</u>
<u>Project GC Lab</u>	1CT/ 3CP	1CT/3CP	1CT/3CP
<u>Control Lab</u>	1CT/4CP CO-6DT	1SCT/2CP 1CT/2CP	1SG/1CP CO-6DT
<u>Powder Room</u>	1CT/1CP	1CT/1CP	1CT/1CP
<u>Floater Lab</u>	1CT/5CP	1CT/1CP	1CT/3CP
<u>Project Lab</u>	1CT/4CP	1SG/1CP	1CT/2CP
<u>Cont. Wt. Lab</u>	1CT/5CP	1SCT/1CP	1SG/1CP 1CT/3CP 1CT/3CP

CT = Charcoal Tube
 SCT = Special Charcoal Tube
 SC = Silica Gel
 CO = Carbon Monoxide
 DT = Detector Tube

CP = Chemical's Processed

CP = ?

VVV 000006314

Laboratory Chemical Survey

Call Tammara
Radosevich
X5432

AREA	CHEMICAL	FREQUENCY	QUANTITY	TLV (TWA - ppm)
Project GC Lab	Hexane	1-2/month	60 mLs	50
	Acetone	daily	100 mLs	750
	Benzene	daily samples	~500 ppm BZ	10
Control Lab - GC	Benzene			10
	Acetone	Daily		750
	Butanol	Unscheduled	500 ml	50-100
	Hexanol	1/wk	1 qt/use	
	Butadiene	1/day	GC-closed loop	
	Methyl Chloride	4/day	1-5 ml/use	50
	Methanol			200
	Ethanol	2/day	4 oz/use	1000
	HCl			
	Phosgene	Rarely		0.1
	CO	Daily	100 ml	50
	Ethane	Daily for CO		Asphyxiant
	Ethylene	1/day	600 ml	Asphyxiant
	Propylene	1/day	250 ml	NOC
	Propane	1/day	250 ml	Asphyxiant
Powder Room	HCl	2/day	10 ml/use	
	H2SO4	2/day		-
	Nitric Acid	5/day	5 ml/day	2
	Formic Acid	5-20/day	25 ml/day	5
Floater Lab	Benzene			10
	Toluene	3/wk	5 ml/use	100
	Acetone	Daily	1 gal/day	750
	Hexane	Daily	32 oz/day	50
	Xylene	6/day	15 ml/use	100
	Hexanol			
	HCl	Daily	1.25 l/day	
	H2SO4	3/day	5 ml/use	-
	Acetic Acid	30/day	5 ml/use	10
	Chloroform	4/wk	100 ml/use	10
	Ethyl Acetate	4/wk	100 ml/use	400
	Phosphoric Acid	2/day	5 ml/use	-
	Ether	1/day	100 ml/day	
Project Lab	Benzene	daily storage/quarterly use	1000 ml	10
	Hexane	Daily	600 ml	50
	Acetone	Daily	600 ml	750
	1,2-Dichloroethane	Quarterly	120 ml	10
	HCl	5-6/mth	150 ml	
	H2SO4	5-6/mth	150 ml	-
	Methanol	2/wk	250 ml	200
	Isopropyl Alcohol	Quarterly	100 ml	400

Laboratory Chemical Survey

	Phosphoric Acid	2-3/mth	1400 ml	-
	Methylene Chloride	1/yr	200 ml	50
Control Wet Chem Lab	Benzene	Daily	1 qt	10
	Hexane	2/day	25 ml/use	50
	Acetone	Daily	2 gal/day	750
	Butanol	Daily	1 qt/day	50-100
	Hexanol	Daily	1.25 qt/day	
	HCl	1/day	300 ml/use	
	H2SO4	Daily	4 oz/use	-
	Methanol	7+/wk	0.5 gal/day	200
	Ethanol	1/day		
	Acetic Acid	1/day	4 oz/day	10
	Ethylene Oxide	1/day	250 ml/day	1
	Pyridine	2/wk		5
	Ethyl Acetate	1/wk	4 oz/wk	400
	Isopropyl Alcohol	2/day	2 qt/day	400
	Iso-octane	2/day	2 qt/day	300
Distillation Lab	Acetone			750
	Freon	10/mth	180 ml/use	
Solvent Storage	Iso-octane	All in gallon drums		300
	Acetone	All in gallon drums		750
	Isopropyl Alcohol	All in gallon drums		400

VVV 000006316