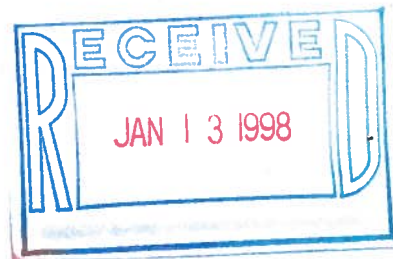


January 5, 1998

Steve Reuter, Project Manager
New Mexico Environment Department
Underground Storage Tank Bureau
Harold Runnels Building
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, New Mexico 87502



Re: Analytical Results and Recommendations from Task 1 Monitor Well Sampling
Leonard's Conoco UST Site, Santa Rosa, New Mexico

Dear Mr. Reuter:

INnovative EXplorations (INEX) has completed a round of groundwater sampling from the existing monitoring wells (4 total) at Leonard's Conoco, Santa Rosa, New Mexico. This work was completed as Task 1 of a proposed Hydrogeologic Investigation for the site. INEX conducted the work to evaluate existing groundwater conditions at the site prior to submitting a site specific Hydrogeologic Investigation (Task 2) workplan for NMED-USTB pre-approval.

The groundwater sampling results are summarized below (Table 1) and complete laboratory analytical reports are attached. Also attached is a piezometric surface map illustrating depths to groundwater, the groundwater gradient, and the currently inferred horizontal extent of groundwater contamination.

Based on INEX's field observations and determinations and the laboratory analytical results, it is our opinion that the extents and magnitude of groundwater contamination have decreased significantly since the initial round of sampling in March 1995. Concomitant with these analytical results, INEX observed that natural attenuation is active at the site. Natural microbial attenuation indicators include dark gray, brackish groundwater (evidence of aerobic heterotrophic metabolism of hydrocarbons), low levels of hydrocarbon odors, and a reduction in extent of the previously identified (March 1995) zone of groundwater contamination; MW-3 and MW-4 reported no detectible contamination, and MW-1 and MW-2 reported significantly reduced levels of contaminants. MTBE (150 ppb) and benzene (180 ppb) report slightly above NMED-USTB and NMWQCC action levels in MW-1; MW-2 reports below action levels for all constituents except EDC (15 ppb) which is only 1.5x the action level.

INEX recommends and requests on behalf of the owner, that NMED-USTB grant a variance to completion of the Hydrogeologic Investigation (Task 2 of proposed INEX workplan) and that groundwater conditions at the site be monitored for the next 12 months (e.g., semi-annual sampling) to confirm that natural attenuation will continue to remediate the groundwater contamination. INEX also believes that with addition of bioenhancers (e.g., bionutrient based humate solution; e.g., PETREX brand) can augment microbial degradation of remaining hydrocarbons and within 1 year likely reduce groundwater contaminant levels to below NMED and NMWQCC action levels.

Upon your review of the enclosed analytical results and INEX's recommendations, please advise Mr. Leonard Gonzales by letter response and forward a copy of your letter to Ms. Mira Gonzales and INEX. If you have any questions or need additional information, please call me.

Kindest regards,
INnovative EXplorations



William I. Mansker, Ph.D.
Proprietor/NMCS #067

LEONARDS CONOCO TASK #1 - Field Notes

Lv ABQ 0800; Ar 1000
Lv SR 1500; Ar 1630

Meet with Leonard Gonzales
Locate wells; MW-1 covered; approx. 1 hr to locate

WLMs @ BTOC (previous unmarked; North edge of TOC):

		<u>TOC</u>	<u>WATER ELEV.</u>
MW-1	- 14.56'	4595.44	4580.88
MW-2	- 15.24'	4595.68	4580.44
MW-3	- 12.84'	4594.06	4581.22
MW-4	- 10.84'	4590.18	4579.34

Purge wells approx. 5 gallons; wait 30 minutes

Repurge successive bailers until parameters stabilize

Sample Physico-chemical Parameters:

	T	C	pH
MW-1	20.5	2.91	7.10
MW-2	20.7	3.04	7.19
MW-3	20.7	3.78	7.35
MW-4	21.4	3.02	7.27

T = temperature degrees C; C = conductivity uS/cm; pH = Units

Rising head test on MW-2; bailed dry, slow recovery

TOC WLM	Cumm. Seconds
25.0 - 24.9	25
24.9 - 24.8	54
24.8 - 24.7	126
24.7 - 24.6	154
24.6 - 24.5	223

Average Recovery = 0.002'/sec; = 0.135'/min



**Hall Environmental
Analysis Laboratory, Inc.**

Hall Environmental Analysis Laboratory
4901 Hawkins NE, Suite A
Albuquerque, NM 87109
(505)345-3975

12/3/97

INEX
8704 Gutierrez NE
Albuquerque, NM 87111

Dear Mr. William Mansker, PhD.,

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or the equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these levels (denoted by the nd or < sign) has been made.

Please don't hesitate to contact me for any additional information or clarifications.

Sincerely,

Scott Hallenbeck
Lab Manager

Project: 9711028/ Leonard's Conoco

Results for sample: 9711071410-1 *1111-1*

Date collected: 11/7/97	Date received: 11/10/97
Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: 9711028-1
Project Manager: William Mansker	Sampled by: W. Mansker
Matrix: Aqueous	

Test: EPA 8260

Analyte:	Results	Detection Limit	Units
Benzene	180	1.0	PPB (µg/L)
Bromobenzene	nd	1.0	PPB (µg/L)
Bromochloromethane	nd	1.0	PPB (µg/L)
Bromodichloromethane <i>CI-420</i>	7.0	1.0	PPB (µg/L)
Bromoform	nd	1.0	PPB (µg/L)
Bromomethane	nd	1.0	PPB (µg/L)
n-Butylbenzene	nd	1.0	PPB (µg/L)
sec-Butylbenzene <i>fr. Benzene</i>	2.8	1.0	PPB (µg/L)
tert-Butylbenzene	nd	1.0	PPB (µg/L)
Carbon Tetrachloride	nd	1.0	PPB (µg/L)
Chlorobenzene	nd	1.0	PPB (µg/L)
Chloroethane	nd	2.0	PPB (µg/L)
Chloroform	nd	1.0	PPB (µg/L)
Chloromethane	nd	2.0	PPB (µg/L)
2-Chlorotoluene	nd	1.0	PPB (µg/L)
4-Chlorotoluene	nd	1.0	PPB (µg/L)
Dibromochloromethane	nd	1.0	PPB (µg/L)
1,2-Dibromo-3-chloropropane	nd	1.0	PPB (µg/L)
1,2-Dibromoethane (EDB)	nd	1.0	PPB (µg/L)
Dibromomethane	nd	1.0	PPB (µg/L)
1,2-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,3-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,4-Dichlorobenzene	nd	1.0	PPB (µg/L)
Dichlorodifluoromethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethane	nd	1.0	PPB (µg/L)
1,2-Dichloroethane <i>EDC</i>	13	1.0	PPB (µg/L)
1,1-Dichloroethene	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Cis)	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Trans)	nd	1.0	PPB (µg/L)
Dichloromethane	nd	2.0	PPB (µg/L)
1,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,3-Dichloropropane	nd	1.0	PPB (µg/L)

Results for Sample: 9711071410-1

Test: EPA 8260 Continued

2,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,1-Dichloropropene	nd	1.0	PPB (µg/L)
cis-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
trans-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
Ethylbenzene	36	1.0	PPB (µg/L)
Hexachlorobutadiene	nd	1.0	PPB (µg/L)
Isopropylbenzene	3.0	1.0	PPB (µg/L)
4-Isopropyltoluene	nd	1.0	PPB (µg/L)
Naphthalene	nd	5.0	PPB (µg/L)
n-Propylbenzene	8.8	1.0	PPB (µg/L)
Styrene	nd	1.0	PPB (µg/L)
1,1,1,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
1,1,2,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
Tetrachloroethene (PCE)	nd	1.0	PPB (µg/L)
Toluene	2.7	1.0	PPB (µg/L)
1,2,3-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,2,4-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,1,1-Trichloroethane	12	1.0	PPB (µg/L)
1,1,2-Trichloroethane	nd	1.0	PPB (µg/L)
Trichloroethene (TCE)	nd	1.0	PPB (µg/L)
Trichlorofluoromethane	nd	1.0	PPB (µg/L)
1,2,3-Trichloropropane	nd	1.0	PPB (µg/L)
1,2,4-Trimethylbenzene	18	1.0	PPB (µg/L)
1,3,5-Trimethylbenzene	nd	1.0	PPB (µg/L)
Vinyl Chloride	nd	1.0	PPB (µg/L)
Xylenes (Total)	8.5	1.0	PPB (µg/L)

DBFM (Surrogate) Recovery =	<u>97 %</u>
1,2-DCA-d4 (Surrogate) Recovery =	<u>94 %</u>
Toluene-d8 (Surrogate) Recovery =	<u>103 %</u>
BFB (Surrogate) Recovery =	<u>103 %</u>

Dilution Factor = 1

Test: EPA 504

Analyte:	Results	Detection Limit	Units
EDB	nd	0.01	PPB (µg/L)

Dilution Factor = 1

Results for sample: 9711071420-2

MW-2

Date collected: 11/7/97	Date received: 11/10/97
Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: 9711028-2
Project Manager: William Mansker	Sampled by: W. Mansker
Matrix: Aqueous	

Test: EPA 8260

Analyte:	Results	Detection Limit	Units
Benzene	3.3	1.0	PPB (µg/L)
Bromobenzene	nd	1.0	PPB (µg/L)
Bromochloromethane	nd	1.0	PPB (µg/L)
Bromodichloromethane	nd	1.0	PPB (µg/L)
Bromoform	nd	1.0	PPB (µg/L)
Bromomethane	nd	1.0	PPB (µg/L)
n-Butylbenzene	2.3	1.0	PPB (µg/L)
sec-Butylbenzene	nd	1.0	PPB (µg/L)
tert-Butylbenzene	nd	1.0	PPB (µg/L)
Carbon Tetrachloride	nd	1.0	PPB (µg/L)
Chlorobenzene	nd	1.0	PPB (µg/L)
Chloroethane	nd	2.0	PPB (µg/L)
Chloroform	nd	1.0	PPB (µg/L)
Chloromethane	nd	2.0	PPB (µg/L)
2-Chlorotoluene	nd	1.0	PPB (µg/L)
4-Chlorotoluene	nd	1.0	PPB (µg/L)
Dibromochloromethane	nd	1.0	PPB (µg/L)
1,2-Dibromo-3-chloropropane	nd	1.0	PPB (µg/L)
1,2-Dibromoethane (EDB)	nd	1.0	PPB (µg/L)
Dibromomethane	nd	1.0	PPB (µg/L)
1,2-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,3-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,4-Dichlorobenzene	nd	1.0	PPB (µg/L)
Dichlorodifluoromethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethane	nd	1.0	PPB (µg/L)
1,2-Dichloroethane	15	1.0	PPB (µg/L)
1,1-Dichloroethene	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Cis)	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Trans)	nd	1.0	PPB (µg/L)
Dichloromethane	nd	2.0	PPB (µg/L)
1,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,3-Dichloropropane	nd	1.0	PPB (µg/L)

Results for Sample: 9711071420-2

Test: EPA 8260 Continued

2,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,1-Dichloropropene	nd	1.0	PPB (µg/L)
cis-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
trans-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
Ethylbenzene	1.6	1.0	PPB (µg/L)
Hexachlorobutadiene	nd	1.0	PPB (µg/L)
Isopropylbenzene	1.2	1.0	PPB (µg/L)
4-Isopropyltoluene	nd	1.0	PPB (µg/L)
Naphthalene	5.3	5.0	PPB (µg/L)
n-Propylbenzene	4.1	1.0	PPB (µg/L)
Styrene	nd	1.0	PPB (µg/L)
1,1,1,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
1,1,2,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
Tetrachloroethene (PCE)	nd	1.0	PPB (µg/L)
Toluene	nd	1.0	PPB (µg/L)
1,2,3-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,2,4-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,1,1-Trichloroethane	nd	1.0	PPB (µg/L)
1,1,2-Trichloroethane	nd	1.0	PPB (µg/L)
Trichloroethene (TCE)	nd	1.0	PPB (µg/L)
Trichlorofluoromethane	nd	1.0	PPB (µg/L)
1,2,3-Trichloropropane	nd	1.0	PPB (µg/L)
1,2,4-Trimethylbenzene	4.6	1.0	PPB (µg/L)
1,3,5-Trimethylbenzene	nd	1.0	PPB (µg/L)
Vinyl Chloride	nd	1.0	PPB (µg/L)
Xylenes (Total)	2.3	1.0	PPB (µg/L)

DBFM (Surrogate) Recovery =	<u>94 %</u>
1,2-DCA-d4 (Surrogate) Recovery =	<u>98 %</u>
Toluene-d8 (Surrogate) Recovery =	<u>98 %</u>
BFB (Surrogate) Recovery =	<u>98 %</u>

Dilution Factor = 1

Test: EPA 504

Analyte:	Results	Detection Limit	Units
EDB	nd	0.01	PPB (µg/L)

Dilution Factor = 1

Results for sample: 9711071427-3

MW-3

Date collected: 11/7/97	Date received: 11/10/97
Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: 9711028-3
Project Manager: William Mansker	Sampled by: W. Mansker
Matrix: Aqueous	

Test: EPA 8260

Analyte:	Results	Detection Limit	Units
Benzene	nd	1.0	PPB (µg/L)
Bromobenzene	nd	1.0	PPB (µg/L)
Bromochloromethane	nd	1.0	PPB (µg/L)
Bromodichloromethane	nd	1.0	PPB (µg/L)
Bromoform	nd	1.0	PPB (µg/L)
Bromomethane	nd	1.0	PPB (µg/L)
n-Butylbenzene	nd	1.0	PPB (µg/L)
sec-Butylbenzene	nd	1.0	PPB (µg/L)
tert-Butylbenzene	nd	1.0	PPB (µg/L)
Carbon Tetrachloride	nd	1.0	PPB (µg/L)
Chlorobenzene	nd	1.0	PPB (µg/L)
Chloroethane	nd	2.0	PPB (µg/L)
Chloroform	nd	1.0	PPB (µg/L)
Chloromethane	nd	2.0	PPB (µg/L)
2-Chlorotoluene	nd	1.0	PPB (µg/L)
4-Chlorotoluene	nd	1.0	PPB (µg/L)
Dibromochloromethane	nd	1.0	PPB (µg/L)
1,2-Dibromo-3-chloropropane	nd	1.0	PPB (µg/L)
1,2-Dibromoethane (EDB)	nd	1.0	PPB (µg/L)
Dibromomethane	nd	1.0	PPB (µg/L)
1,2-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,3-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,4-Dichlorobenzene	nd	1.0	PPB (µg/L)
Dichlorodifluoromethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethane	nd	1.0	PPB (µg/L)
1,2-Dichloroethane	3.2	1.0	PPB (µg/L)
1,1-Dichloroethene	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Cis)	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Trans)	nd	1.0	PPB (µg/L)
Dichloromethane	nd	2.0	PPB (µg/L)
1,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,3-Dichloropropane	nd	1.0	PPB (µg/L)

Results for Sample: 9711071427-3

Test: EPA 8260 Continued

2,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,1-Dichloropropene	nd	1.0	PPB (µg/L)
cis-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
trans-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
Ethylbenzene	nd	1.0	PPB (µg/L)
Hexachlorobutadiene	nd	1.0	PPB (µg/L)
Isopropylbenzene	nd	1.0	PPB (µg/L)
4-Isopropyltoluene	nd	1.0	PPB (µg/L)
Naphthalene	nd	5.0	PPB (µg/L)
n-Propylbenzene	nd	1.0	PPB (µg/L)
Styrene	nd	1.0	PPB (µg/L)
1,1,1,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
1,1,2,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
Tetrachloroethene (PCE)	nd	1.0	PPB (µg/L)
Toluene	nd	1.0	PPB (µg/L)
1,2,3-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,2,4-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,1,1-Trichloroethane	nd	1.0	PPB (µg/L)
1,1,2-Trichloroethane	nd	1.0	PPB (µg/L)
Trichloroethene (TCE)	nd	1.0	PPB (µg/L)
Trichlorofluoromethane	nd	1.0	PPB (µg/L)
1,2,3-Trichloropropane	nd	1.0	PPB (µg/L)
1,2,4-Trimethylbenzene	nd	1.0	PPB (µg/L)
1,3,5-Trimethylbenzene	nd	1.0	PPB (µg/L)
Vinyl Chloride	nd	1.0	PPB (µg/L)
Xylenes (Total)	nd	1.0	PPB (µg/L)

DBFM (Surrogate) Recovery =	<u>99 %</u>
1,2-DCA-d4 (Surrogate) Recovery =	<u>99 %</u>
Toluene-d8 (Surrogate) Recovery =	<u>98 %</u>
BFB (Surrogate) Recovery =	<u>96 %</u>

Dilution Factor = 1

Test: EPA 504

Analyte:	Results	Detection Limit	Units
EDB	nd	0.01	PPB (µg/L)

Dilution Factor = 1

Results for sample: Field Blank

Date collected: 11/7/97	Date received: 11/10/97
Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: 9711028-4
Project Manager: William Mansker	Sampled by: W. Mansker
Matrix: Aqueous	

Test: EPA 8260

Analyte:	Results	Detection Limit	Units
Benzene	nd	1.0	PPB (µg/L)
Bromobenzene	nd	1.0	PPB (µg/L)
Bromochloromethane	nd	1.0	PPB (µg/L)
Bromodichloromethane	nd	1.0	PPB (µg/L)
Bromoform	nd	1.0	PPB (µg/L)
Bromomethane	nd	1.0	PPB (µg/L)
n-Butylbenzene	nd	1.0	PPB (µg/L)
sec-Butylbenzene	nd	1.0	PPB (µg/L)
tert-Butylbenzene	nd	1.0	PPB (µg/L)
Carbon Tetrachloride	nd	1.0	PPB (µg/L)
Chlorobenzene	nd	1.0	PPB (µg/L)
Chloroethane	nd	2.0	PPB (µg/L)
Chloroform	nd	1.0	PPB (µg/L)
Chloromethane	nd	2.0	PPB (µg/L)
2-Chlorotoluene	nd	1.0	PPB (µg/L)
4-Chlorotoluene	nd	1.0	PPB (µg/L)
Dibromochloromethane	nd	1.0	PPB (µg/L)
1,2-Dibromo-3-chloropropane	nd	1.0	PPB (µg/L)
1,2-Dibromoethane (EDB)	nd	1.0	PPB (µg/L)
Dibromomethane	nd	1.0	PPB (µg/L)
1,2-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,3-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,4-Dichlorobenzene	nd	1.0	PPB (µg/L)
Dichlorodifluoromethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethane	nd	1.0	PPB (µg/L)
1,2-Dichloroethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethene	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Cis)	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Trans)	nd	1.0	PPB (µg/L)
Dichloromethane	nd	2.0	PPB (µg/L)
1,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,3-Dichloropropane	nd	1.0	PPB (µg/L)

Results for Sample: Field Blank

Test: EPA 8260 Continued

2,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,1-Dichloropropene	nd	1.0	PPB (µg/L)
cis-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
trans-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
Ethylbenzene	nd	1.0	PPB (µg/L)
Hexachlorobutadiene	nd	1.0	PPB (µg/L)
Isopropylbenzene	nd	1.0	PPB (µg/L)
4-Isopropyltoluene	nd	1.0	PPB (µg/L)
Naphthalene	nd	5.0	PPB (µg/L)
n-Propylbenzene	nd	1.0	PPB (µg/L)
Styrene	nd	1.0	PPB (µg/L)
1,1,1,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
1,1,2,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
Tetrachloroethene (PCE)	nd	1.0	PPB (µg/L)
Toluene	nd	1.0	PPB (µg/L)
1,2,3-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,2,4-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,1,1-Trichloroethane	nd	1.0	PPB (µg/L)
1,1,2-Trichloroethane	nd	1.0	PPB (µg/L)
Trichloroethene (TCE)	nd	1.0	PPB (µg/L)
Trichlorofluoromethane	nd	1.0	PPB (µg/L)
1,2,3-Trichloropropane	nd	1.0	PPB (µg/L)
1,2,4-Trimethylbenzene	nd	1.0	PPB (µg/L)
1,3,5-Trimethylbenzene	nd	1.0	PPB (µg/L)
Vinyl Chloride	nd	1.0	PPB (µg/L)
Xylenes (Total)	nd	1.0	PPB (µg/L)

DBFM (Surrogate) Recovery =	<u>106 %</u>
1,2-DCA-d4 (Surrogate) Recovery =	<u>95 %</u>
Toluene-d8 (Surrogate) Recovery =	<u>102 %</u>
BFB (Surrogate) Recovery =	<u>92 %</u>

Dilution Factor = 1

Test: EPA 504

Analyte:	Results	Detection Limit	Units
EDB	nd	0.01	PPB (µg/L)

Dilution Factor = 1

Results for sample: 9711071435-4

MW-4

Date collected: 11/7/97	Date received: 11/10/97
Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: 9711028-5
Project Manager: William Mansker	Sampled by: W. Mansker
Matrix: Aqueous	

Test: EPA 8260

Analyte:	Results	Detection Limit	Units
Benzene	nd	1.0	PPB (µg/L)
Bromobenzene	nd	1.0	PPB (µg/L)
Bromochloromethane	nd	1.0	PPB (µg/L)
Bromodichloromethane	nd	1.0	PPB (µg/L)
Bromoform	nd	1.0	PPB (µg/L)
Bromomethane	nd	1.0	PPB (µg/L)
n-Butylbenzene	nd	1.0	PPB (µg/L)
sec-Butylbenzene	nd	1.0	PPB (µg/L)
tert-Butylbenzene	nd	1.0	PPB (µg/L)
Carbon Tetrachloride	nd	1.0	PPB (µg/L)
Chlorobenzene	nd	1.0	PPB (µg/L)
Chloroethane	nd	2.0	PPB (µg/L)
Chloroform	nd	1.0	PPB (µg/L)
Chloromethane	nd	2.0	PPB (µg/L)
2-Chlorotoluene	nd	1.0	PPB (µg/L)
4-Chlorotoluene	nd	1.0	PPB (µg/L)
Dibromochloromethane	nd	1.0	PPB (µg/L)
1,2-Dibromo-3-chloropropane	nd	1.0	PPB (µg/L)
1,2-Dibromoethane (EDB)	nd	1.0	PPB (µg/L)
Dibromomethane	nd	1.0	PPB (µg/L)
1,2-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,3-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,4-Dichlorobenzene	nd	1.0	PPB (µg/L)
Dichlorodifluoromethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethane	nd	1.0	PPB (µg/L)
1,2-Dichloroethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethene	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Cis)	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Trans)	nd	1.0	PPB (µg/L)
Dichloromethane	nd	2.0	PPB (µg/L)
1,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,3-Dichloropropane	nd	1.0	PPB (µg/L)

Results for Sample: 9711071435-4

Test: EPA 8260 Continued

2,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,1-Dichloropropene	nd	1.0	PPB (µg/L)
cis-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
trans-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
Ethylbenzene	nd	1.0	PPB (µg/L)
Hexachlorobutadiene	nd	1.0	PPB (µg/L)
Isopropylbenzene	nd	1.0	PPB (µg/L)
4-Isopropyltoluene	nd	1.0	PPB (µg/L)
Naphthalene	nd	5.0	PPB (µg/L)
n-Propylbenzene	nd	1.0	PPB (µg/L)
Styrene	nd	1.0	PPB (µg/L)
1,1,1,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
1,1,2,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
Tetrachloroethene (PCE)	nd	1.0	PPB (µg/L)
Toluene	nd	1.0	PPB (µg/L)
1,2,3-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,2,4-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,1,1-Trichloroethane	nd	1.0	PPB (µg/L)
1,1,2-Trichloroethane	nd	1.0	PPB (µg/L)
Trichloroethene (TCE)	nd	1.0	PPB (µg/L)
Trichlorofluoromethane	nd	1.0	PPB (µg/L)
1,2,3-Trichloropropane	nd	1.0	PPB (µg/L)
1,2,4-Trimethylbenzene	nd	1.0	PPB (µg/L)
1,3,5-Trimethylbenzene	nd	1.0	PPB (µg/L)
Vinyl Chloride	nd	1.0	PPB (µg/L)
Xylenes (Total)	nd	1.0	PPB (µg/L)

DBFM (Surrogate) Recovery =	<u>100 %</u>
1,2-DCA-d4 (Surrogate) Recovery =	<u>94 %</u>
Toluene-d8 (Surrogate) Recovery =	<u>100 %</u>
BFB (Surrogate) Recovery =	<u>92 %</u>

Dilution Factor = 1

Test: EPA 504

Analyte:	Results	Detection Limit	Units
EDB	nd	0.01	PPB (µg/L)

Dilution Factor = 1

Results for QC: Reagent Blank

Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: RB 11/21,24
Project Manager: William Mansker	Sampled by: NA
Matrix: Aqueous	

Test: EPA 8260

Analyte:	Results	Detection Limit	Units
Benzene	nd	1.0	PPB (µg/L)
Bromobenzene	nd	1.0	PPB (µg/L)
Bromochloromethane	nd	1.0	PPB (µg/L)
Bromodichloromethane	nd	1.0	PPB (µg/L)
Bromoform	nd	1.0	PPB (µg/L)
Bromomethane	nd	1.0	PPB (µg/L)
n-Butylbenzene	nd	1.0	PPB (µg/L)
sec-Butylbenzene	nd	1.0	PPB (µg/L)
tert-Butylbenzene	nd	1.0	PPB (µg/L)
Carbon Tetrachloride	nd	1.0	PPB (µg/L)
Chlorobenzene	nd	1.0	PPB (µg/L)
Chloroethane	nd	2.0	PPB (µg/L)
Chloroform	nd	1.0	PPB (µg/L)
Chloromethane	nd	2.0	PPB (µg/L)
2-Chlorotoluene	nd	1.0	PPB (µg/L)
4-Chlorotoluene	nd	1.0	PPB (µg/L)
Dibromochloromethane	nd	1.0	PPB (µg/L)
1,2-Dibromo-3-chloropropane	nd	1.0	PPB (µg/L)
1,2-Dibromoethane (EDB)	nd	1.0	PPB (µg/L)
Dibromomethane	nd	1.0	PPB (µg/L)
1,2-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,3-Dichlorobenzene	nd	1.0	PPB (µg/L)
1,4-Dichlorobenzene	nd	1.0	PPB (µg/L)
Dichlorodifluoromethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethane	nd	1.0	PPB (µg/L)
1,2-Dichloroethane	nd	1.0	PPB (µg/L)
1,1-Dichloroethene	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Cis)	nd	1.0	PPB (µg/L)
1,2-Dichloroethene (Trans)	nd	1.0	PPB (µg/L)
Dichloromethane	nd	2.0	PPB (µg/L)
1,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,3-Dichloropropane	nd	1.0	PPB (µg/L)

Results for QC: Reagent Blank

Test: EPA 8260 Continued

2,2-Dichloropropane	nd	1.0	PPB (µg/L)
1,1-Dichloropropene	nd	1.0	PPB (µg/L)
cis-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
trans-1,3-Dichloropropene	nd	1.0	PPB (µg/L)
Ethylbenzene	nd	1.0	PPB (µg/L)
Hexachlorobutadiene	nd	1.0	PPB (µg/L)
Isopropylbenzene	nd	1.0	PPB (µg/L)
4-Isopropyltoluene	nd	1.0	PPB (µg/L)
Naphthalene	nd	5.0	PPB (µg/L)
n-Propylbenzene	nd	1.0	PPB (µg/L)
Styrene	nd	1.0	PPB (µg/L)
1,1,1,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
1,1,2,2-Tetrachloroethane	nd	1.0	PPB (µg/L)
Tetrachloroethene (PCE)	nd	1.0	PPB (µg/L)
Toluene	nd	1.0	PPB (µg/L)
1,2,3-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,2,4-Trichlorobenzene	nd	1.0	PPB (µg/L)
1,1,1-Trichloroethane	nd	1.0	PPB (µg/L)
1,1,2-Trichloroethane	nd	1.0	PPB (µg/L)
Trichloroethene (TCE)	nd	1.0	PPB (µg/L)
Trichlorofluoromethane	nd	1.0	PPB (µg/L)
1,2,3-Trichloropropane	nd	1.0	PPB (µg/L)
1,2,4-Trimethylbenzene	nd	1.0	PPB (µg/L)
1,3,5-Trimethylbenzene	nd	1.0	PPB (µg/L)
Vinyl Chloride	nd	1.0	PPB (µg/L)
Xylenes (Total)	nd	1.0	PPB (µg/L)

DBFM (Surrogate) Recovery =	<u>102 %</u>
1,2-DCA-d4 (Surrogate) Recovery =	<u>96 %</u>
Toluene-d8 (Surrogate) Recovery =	<u>102 %</u>
BFB (Surrogate) Recovery =	<u>95 %</u>

Dilution Factor = 1

Test: EPA 504

Analyte:	Results	Detection Limit	Units
EDB	nd	0.01	PPB (µg/L)

Dilution Factor = 1

**Results for QC: Matrix Spike/ Matrix Spike Duplicate
Blank Spike/ Blank Spike Duplicate**

Date extracted: 11/24/97	Date analyzed: 11/21,24/97
Client: INEX	
Project Name: Leonard's Conoco	HEAL #: 9711028-5 MS/MSD BS/BSD 11/24
Project Manager: William Mansker	Sampled by: NA
Matrix: Aqueous	

Test: EPA 8260

<u>Compound</u>	<u>Sample Result</u>	<u>Amount Added</u>	<u>Matrix Spike</u>	<u>MS %</u>	<u>MS Dup</u>	<u>MSD %</u>	<u>RPD</u>
1,1-DCE	<1.0	20.0	22.4	112	22.9	114	2
Benzene	<1.0	20.0	20.7	104	22.3	112	8
TCE	<1.0	20.0	20.0	100	21.5	107	7
Toluene	<1.0	20.0	21.2	106	21.7	109	3
Chlorobenzene	<1.0	20.0	20.6	103	21.5	107	4

Test: EPA 504

<u>Compound</u>	<u>Sample Result</u>	<u>Amount Added</u>	<u>Blank Spike</u>	<u>BS %</u>	<u>BS Dup</u>	<u>BSD %</u>	<u>RPD</u>
EDB	<0.001	0.10	0.094	94	0.096	96	2

CHAIN-OF-CUSTODY RECORD

Client: INEX
 Project Name: LEONARDO'S CONOCO.
 Address: 8704 GUTENBERG
ALBUQUERQUE, NM 87111
 Project #: _____
 Project Manager: W. L. MANSKER
 Phone #: 292-0805
 Fax #: Same
 Sampler: W. Mansker
 Samples Cold?: Yes No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.	
					HgCl ₂	HCl		
11/27/97	1410	H ₂ O	9711071410-1	2 ea. 40ml VIALS	✓		9711078-1	
"	1420	"	9711071420-2	"	✓		-2	
"	1427	"	9711071427-3	"	✓		-3	
"	1430	"	9711071430-FB	"	✓		-4	
"	1435	"	9711071435-4	"	✓		-5	

Date: 11/27/97 Time: 1352
 Relinquished By: (Signature) W. Mansker
 Date: _____ Time: _____
 Relinquished By: (Signature) _____
 Received By: (Signature) _____
 Received By: (Signature) _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite A
 Albuquerque, New Mexico 87109
 505.345.3975
 Fax 505.345.4107

ANALYSIS REQUEST

BTEX + MTBE (602/8020)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015 MOD (Gas/Diesel)	TPH (Method 418.1)	8010/8020 Volatiles	EDB (Method 504)	EDC (Method 8010)	8310 (PNA or PAH)	RCRA 8 Metals	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8080 Pesticides / PCBs	8260 (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
				X	X							X		
				X	X							X		
				X	X							X		
				X	X							X		

Remarks: W. Mansker