N00236.002078
NAS ALAMEDA POINT
SSIC NO. 5090.3

CLEAN 3 Program
Bechtel Job No. 23818
Contract No. N68711-95-D-7526
File Code: 0218

IN REPLY REFERENCE: CTO 0065/0300

August 2, 2005

Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Richard Lovering, AQE.RL
1220 Pacific Highway
San Diego, CA 92132-5190

Subject: Investigation-Derived Waste Disposal for CTO-0065, Water and Soil Generated During the Remedial Investigation at Installation Restoration Site 32, Alameda Point, Alameda, California

Dear Mr. Lovering:

Ecology Control Industries (ECI), the CLEAN program waste disposal subcontractor, has sampled the Investigation Derived Waste (IDW) soil and IDW water generated during CTO 0065 at Alameda Point, Alameda California for disposal characterization. A soil sample was collected from a 55-gallon drum. Water samples were also taken from a 55-gallon drum.

The IDW soil and IDW water were sampled on June 30, 2005, July 7, 2005, and July 12, 2005. The samples were submitted to Eberline Services for radiological analysis. In addition, the samples were submitted for chemical analysis to Columbia Analytical Services, Inc. The IDW soil is containerized in one 55-gallon drum, and the IDW water is containerized in another 55-gallon drum. The soil and water samples were analyzed by the following analytical test methods:

EPA Method 900.0	Gross alpha/beta
EPA Method 901.1	Gamma spectroscopy
EPA Method 8260	Volatile organic compounds
EPA Method 8270	Semivolatile organic compounds
EPA Method 8082	PCBs
EPA Method 8081	Pesticides
EPA Method 8015M	Diesel range organics
TTLC/CAM metals	Total threshold limit concentration metals
96-Hour Bio-assay	Aquatic toxicity test

The attached analytical results that have been received for the IDW soil and IDW water samples did not report any compounds above levels that are regulated under Code of Federal Regulations (CFR) 40 or California Code of Regulations (CCR) Title 22, hazardous waste regulations. The samples did not contain any metals exceeding the Total Threshold Limit Concentration (TTLC) regulatory levels. The samples also passed the 96-hour aquatic toxicity test. From the analytical data, it can be concluded that the IDW soil and IDW water can be considered Non-Hazardous.

The following table is a cost comparison of the disposal options and the estimated cost associated with each option:

IDW Water Disposal Options:

Disposal Facility	Treatment Technology	Profile Fee	Disposal Cost	Transportation Cost	Total Costs*
General Environmental Management, Inc. (GEM)	Treatment	$0	$86.25/drum	$375	$461.25
Crosby & Overton	Treatment	$0	$46.00/drum	$1100	$1,146.00

* Total Costs are based on one 55-gallon drum.

The lower cost option for the disposal of the water would be to transport it to GEM in Rancho Cordova, California. GEM has the most competitive pricing as well as the necessary capability to treat the IDW water.

IDW Solid Disposal Options:

Disposal Facility	Treatment Technology	Profile Fee	Disposal Cost	Transportation Cost	Total Costs**
GEM	Landfill	$0	$74.75/drum	$375	$449.75
Clean Harbors	Landfill	$0	$74.75/drum	$468	$542.75
Crosby & Overton	Landfill	$0	$57.50/drum	$1100	$1157.50

** Total Costs are based on one 55-gallon drum.

The lowest cost option for the disposal of the solids would be to transport it to GEM. GEM offers the most competitive price as well as the necessary capability to treat the IDW soil.

To expedite the removal of IDW from the facility, Bechtel Environmental Inc., on behalf of the Navy, shall instruct ECI to proceed with the disposal of soil and water IDW at GEM in Rancho Cordova, California, unless directed otherwise before close of business this Friday, August 5, 2005. This removal action will incur costs of approximately $911.00.

Very truly yours,

John D. Vellis
Contracts and Compliance Manager

Attachments
JDV:lw

EBERLINE
SERVICES

July 7, 2005

Mr. Mark Filuta
Ecology Control Industries
19500 Normandy Avenue
Torrance, CA 90501

Reference: Project: Navy CLEAN, CTO 65, IR Site 32
Eberline Services Report R506246-8078
R506247-8079

Dear Mr. Filuta:

Enclosed are results from the analysis of two samples (one water and one soil) received at Eberline Services on June 30, 2005. The requested analyses were gamma spectroscopy (by method EPA 901.1) and gross alpha/beta (by method EPA 900.0). The parenthetical G after a nuclide indicates that the result was obtained by gamma spectroscopy; a "U" in the results column indicates that the nuclide was not detected greater than the indicated minimum detectable activity (MDA). The QC LCS and blank analysis results were within the limits defined in the Eberline Services Quality Control Procedures Manual. No problems were encountered during the analysis.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannion
Senior Program Manager

MCM/

Enclosure: *Report*
CoC

Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com

Eberline Services

ANALYSIS RESULTS

SDG 8079
Work Order R506247-01
Received Date 06/30/05

Client ECI
Contract CREDIT CARD
Matrix SOLID

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
#2	8079-001	06/30/05	07/05/05	GrossAlpha	1.25 ± 1.8	pCi/g	3.00
			07/05/05	Gross Beta	9.89 ± 3.7	pCi/g	5.55
			07/05/05	K40 (G)	6.28 ± 1.2	pCi/g	1.02
			07/05/05	Mn54 (G)	U	pCi/g	0.096
			07/05/05	Co58 (G)	U	pCi/g	0.094
			07/05/05	Co60 (G)	U	pCi/g	0.106
			07/05/05	Cs137 (G)	U	pCi/g	0.094
			07/05/05	Ra226 (G)	0.325 ± 0.12	pCi/g	0.145
			07/05/05	Th228 (G)	0.452 ± 0.11	pCi/g	0.105
			07/05/05	Th232 (G)	U	pCi/g	0.466

Certified by [illegible]
Report Date 07/07/05

Eberline Services

ANALYSIS RESULTS

SDG 8078
Work Order R506246-01
Received Date 06/30/05

Client ECI
Contract CREDIT CARD
Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
#1	8078-001	06/30/05	07/05/05	GrossAlpha	0.007 ± 0.85	pCi/L	1.36
			07/05/05	Gross Beta	7.78 ± 1.5	pCi/L	1.89
			07/05/05	K40 (G)	U	pCi/L	195
			07/05/05	Co58 (G)	U	pCi/L	9.85
			07/05/05	Co60 (G)	U	pCi/L	10.4
			07/05/05	Cs137 (G)	U	pCi/L	10.2
			07/05/05	Ra226 (G)	U	pCi/L	18.6
			07/05/05	Th228 (G)	U	pCi/L	23.2
			07/05/05	Th232 (G)	U	pCi/L	44.2
			07/05/05	Mn54 (G)	U	pCi/L	8.83

Certified by [illegible]
Report Date 07/07/05

Eberline Services

QC RESULTS

SDG 8078
Work Order R506246-01
Received Date 06/30/05

Client ECI
Contract CREDIT CARD
Matrix WATER

Lab Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
LCS						
8078-002	Co60 (G)	214 ± 24	pCi/Smpl	216	14.3	99% recovery
	Cs137 (G)	230 ± 19	pCi/Smpl	221	10.7	104% recovery
BLANK						
8078-003	K40 (G)	U	pCi/Smpl	NA	88.3	<MDA
	Co58 (G)	U	pCi/Smpl	NA	3.96	<MDA
	Co60 (G)	U	pCi/Smpl	NA	4.10	<MDA
	Cs137 (G)	U	pCi/Smpl	NA	4.41	<MDA
	Ra226 (G)	U	pCi/Smpl	NA	7.44	<MDA
	Th228 (G)	U	pCi/Smpl	NA	10.6	<MDA
	Th232 (G)	U	pCi/Smpl	NA	18.2	<MDA
	Mn54 (G)	U	pCi/Smpl	NA	4.12	<MDA
LCS						
8078-004	GrossAlpha	10.3 ± 1.2	pCi/Smpl	10.2	0.452	101% recovery
	Gross Beta	9.98 ± 0.75	pCi/Smpl	10.0	0.556	100% recovery
BLANK						
8078-005	GrossAlpha	-0.084 ± 0.11	pCi/Smpl	NA	0.340	<MDA
	Gross Beta	0.050 ± 0.32	pCi/Smpl	NA	0.558	<MDA

Certified by M. Mar
Report Date 07/07/05

Torrance CA 90501 Mark Faluta

ECI
ECOLOGY CONTROL INDUSTRIES
A Full Service Environmental Company

CHAIN OF CUSTODY RECORD

(310) 901-1797

Project Name Navy Clean Project 3: CTO-0065, IR Site 32 Project No. 210-5958
Project Contact / Phone No. 510-7147787
Samples Shipment Date 6-30-05 Turn Around Time ~~10~~ 7 Day's
Report To Joseph A. Brown

Samplers Joseph A. Brown
Purchase Order No.
Laboratory Eberline Labs Eberline

MJM 6/30/05

Special Instructions / Comments							Requested Analysis						
Sample ID	Sample Matrix	Date Collected	Time Collected	Sample Container	Preservative	Sample Volume	Alpha Analysis	Beta Analysis	Gamma Analysis				Comments
#1	Water Liquids	6/30	8:00am	Glass Jar	NONE	2 Qt	✓	✓	✓				2 Container
#2	Solide Soil	6/30	8:00am	Metal Sleeve	NONE	1/4 lb	✓	✓	✓				1

Relinquished By:	Received By:	Date:	Time:
(signature) M J Joseph A Brown (printed) Joseph A. Brown 6/30/05 9:45am	(signature) Melissa Mannion (printed) Eberline Services 6/30/5 9:46pm.		
Relinquished By: (signature) (printed)	Received By: (signature) (printed)	Date:	Time:
Relinquished By: (signature) (printed)	Received By: (signature) (printed)	Date:	Time:

EBERLINE SERVICES

RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: ECOLOGY CONTROL IND City _____ State _____

Date/Time received 06/30/05 10:00 CoC No. PROJ # 210-5958

Container I.D. No. LOOSE HAND DELV'D Requested TAT (Days) 10 P.O. Received Yes [ ] No [ ]

INSPECTION

1. Custody seals on shipping container intact? Yes [ ] No [ ] N/A [X]
2. Custody seals on shipping container dated & signed? Yes [ ] No [ ] N/A [X]
3. Custody seals on sample containers intact? Yes [ ] No [ ] N/A [X]
4. Custody seals on sample containers dated & signed? Yes [ ] No [ ] N/A [X]
5. Packing material is: Wet [ ] Dry [X]
6. Number of samples in shipping container: 3 Sample Matrix SOIL, WATER
7. Number of containers per sample: _____ (Or see CoC X)
8. Samples are in correct container Yes [X] No [ ]
9. Paperwork agrees with samples? Yes [X] No [ ]
10. Samples have: Tape [ ] Hazard labels [ ] Rad labels [ ] Appropriate sample labels [X]
11. Samples are: In good condition [X] Leaking [ ] Broken Container [ ] Missing [ ]
12. Samples are: Preserved [ ] Not preserved [X] pH 8 Preservative _____
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [ ] No [ ] Date _____
15. Inspected by MFW Date: 06/30/05 Time: 10:30

Customer Sample No.	cpm	mR/hr	Wipe	Customer Sample No.	cpm	mR/hr	wipe

Ion Chamber Ser. No. _____ Calibration date _____
Alpha Meter Ser. No. _____ Calibration date _____
Beta/Gamma Meter Ser. No. _____ Calibration date _____

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3/210-5958

Service Request: L0501175

Cover Page - Organic Analysis Data Package
Organochlorine Pesticides

Sample Name	Lab Code	Date Collected	Date Received
1#/2#	L0501175-001	07/12/2005	07/13/2005

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang

Name: WIDA ANG

Date: 7/27/05

Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	Service Request:	L0501175
Project:	Navy Clean Project 3/210-5958	Date Collected:	07/12/2005
Sample Matrix:	Water	Date Received:	07/13/2005

Organochlorine Pesticides

Sample Name:	1#/2#	Units:	ug/L
Lab Code:	L0501175-001	Basis:	NA
Extraction Method:	EPA 3510	Level:	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
alpha-BHC	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
alpha-Chlordane	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
beta-BHC	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
delta-BHC	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
Dieldrin	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
Endosulfan I	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
Endosulfan II	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
Endosulfan Sulfate	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
Endrin	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
Endrin Aldehyde	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
Endrin Ketone	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
gamma-BHC (Lindane)	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
gamma-Chlordane	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
Heptachlor	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
Heptachlor Epoxide	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
Methoxychlor	ND	U	0.057	1	07/19/05	07/24/05	LWG0502599	
p,p'-DDD	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
p,p'-DDE	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
p,p'-DDT	ND	U	0.023	1	07/19/05	07/24/05	LWG0502599	
Toxaphene	ND	U	2.3	1	07/19/05	07/24/05	LWG0502599	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	82	45-118	07/24/05	Acceptable
Decachlorobiphenyl	55	34-132	07/24/05	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3/210-5958

Service Request: L0501175

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
1#/2#	L0501175-001	07/12/2005	07/13/2005

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Signature: Wida Ang

Name: WIDA ANG

Date: 7/27/05

Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	Service Request:	L0501175
Project:	Navy Clean Project 3/210-5958	Date Collected:	07/12/2005
Sample Matrix:	Water	Date Received:	07/13/2005

Polychlorinated Biphenyls (PCBs)

Sample Name:	1#/2#	Units:	ug/L
Lab Code:	L0501175-001	Basis:	NA
Extraction Method:	EPA 3510	Level:	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	1.2	1	07/19/05	07/24/05	LWG0502600	
Aroclor 1221	ND	U	2.3	1	07/19/05	07/24/05	LWG0502600	
Aroclor 1232	ND	U	1.2	1	07/19/05	07/24/05	LWG0502600	
Aroclor 1242	ND	U	1.2	1	07/19/05	07/24/05	LWG0502600	
Aroclor 1248	ND	U	1.2	1	07/19/05	07/24/05	LWG0502600	
Aroclor 1254	ND	U	1.2	1	07/19/05	07/24/05	LWG0502600	
Aroclor 1260	ND	U	1.2	1	07/19/05	07/24/05	LWG0502600	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	92	38-109	07/24/05	Acceptable
Decachlorobiphenyl	60	52-133	07/24/05	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3/210-5958

Service Request: L0501175

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
1#/2#	L0501175-001	07/12/2005	07/13/2005

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Signature: [signature] Name: DEIDRE GOODRICH

Date: 7/21/05 Title: CHEMIST

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	Service Request:	L0501175
Project:	Navy Clean Project 3/210-5958	Date Collected:	07/12/2005
Sample Matrix:	Water	Date Received:	07/13/2005

Volatile Organic Compounds

Sample Name:	1#/2#	Units:	ug/L
Lab Code:	L0501175-001	Basis:	NA
Extraction Method:	EPA 5030B	Level:	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Chloromethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Vinyl Chloride	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Bromomethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Chloroethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Trichlorofluoromethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Acetone	46		10	1	07/18/05	07/18/05	LWG0502524	
1,1-Dichloroethene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Carbon Disulfide	ND	U	2.0	1	07/18/05	07/18/05	LWG0502524	
Methylene Chloride	ND	U	2.0	1	07/18/05	07/18/05	LWG0502524	
trans-1,2-Dichloroethene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,1-Dichloroethane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
2-Butanone (MEK)	ND	U	10	1	07/18/05	07/18/05	LWG0502524	
2,2-Dichloropropane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
cis-1,2-Dichloroethene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Chloroform	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Bromochloromethane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,1-Dichloropropene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Carbon Tetrachloride	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Benzene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Trichloroethene (TCE)	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,2-Dichloropropane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Bromodichloromethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Dibromomethane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
2-Hexanone	ND	U	10	1	07/18/05	07/18/05	LWG0502524	
cis-1,3-Dichloropropene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Toluene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
trans-1,3-Dichloropropene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,1,2-Trichloroethane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	07/18/05	07/18/05	LWG0502524	
1,3-Dichloropropane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Tetrachloroethene (PCE)	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501175
Project:	Navy Clean Project 3/210-5958	**Date Collected:**	07/12/2005
Sample Matrix:	Water	**Date Received:**	07/13/2005

Volatile Organic Compounds

Sample Name:	1#/2#	**Units:**	ug/L
Lab Code:	L0501175-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,2-Dibromoethane (EDB)	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Chlorobenzene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Ethylbenzene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Total Xylenes	ND	U	1.5	1	07/18/05	07/18/05	LWG0502524	
Styrene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Bromoform	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Isopropylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,2,3-Trichloropropane	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
Bromobenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
n-Propylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
2-Chlorotoluene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
4-Chlorotoluene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,3,5-Trimethylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
tert-Butylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,2,4-Trimethylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
sec-Butylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,3-Dichlorobenzene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
4-Isopropyltoluene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,4-Dichlorobenzene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
n-Butylbenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,2-Dichlorobenzene	ND	U	0.50	1	07/18/05	07/18/05	LWG0502524	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	07/18/05	07/18/05	LWG0502524	
1,2,4-Trichlorobenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
1,2,3-Trichlorobenzene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Naphthalene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Hexachlorobutadiene	ND	U	1.0	1	07/18/05	07/18/05	LWG0502524	
Methyl tert-Butyl Ether	ND	U	2.0	1	07/18/05	07/18/05	LWG0502524	
1,1,2-Trichlorotrifluoroethane	ND	U	2.0	1	07/18/05	07/18/05	LWG0502524	
Vinyl Acetate	ND	U	10	1	07/18/05	07/18/05	LWG0502524	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501175
Project:	Navy Clean Project 3/210-5958	**Date Collected:**	07/12/2005
Sample Matrix:	Water	**Date Received:**	07/13/2005

Volatile Organic Compounds

Sample Name:	1#/2#	**Units:**	ug/L
Lab Code:	L0501175-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	75-120	07/18/05	Acceptable
Toluene-d8	93	65-129	07/18/05	Acceptable
4-Bromofluorobenzene	91	65-119	07/18/05	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Ecology Control Industries, Incorporated	Service Request:	L0501175
Project:	Navy Clean Project 3/210-5958	Date Collected:	7/12/05
Sample Matrix:	Water	Date Received:	7/13/05
Batch Number:	5G020715		

Hydrocarbon Scan / Fuel Characterization

Sample Name:	1#/2#	Units:	mg/L (ppm)
Lab Code:	L0501175-001	Basis:	NA
Test Notes:	D2		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
C6 - C12 GRO	EPA 3510M	8015M	0.50	1	7/15/05	7/15/05	ND	
C13 - C22 DRO	EPA 3510M	8015M	0.50	1	7/15/05	7/15/05	2.8	
C23 - C32 HRO	EPA 3510M	8015M	0.50	1	7/15/05	7/15/05	ND	
Total Petroleum Hydrocarbons	EPA 3510M	8015M	1.50	1	7/15/05	7/15/05	2.8	
Fuel Characterization	EPA 3510M	8015M						I5

GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D2	Quantified with diesel fuel.
I5	Chromatogram fingerprint is not characteristic of any particular fuel type; however, hydrocarbons eluting within the stated carbon range were detected.

Approved By: Karen Ryan Date: 7/19/05

1822/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3/210-5958

Service Request: L0501175

Cover Page - Organic Analysis Data Package
Base Neutral / Acid Semivolatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
1#/2#	L0501175-001	07/12/2005	07/13/2005

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Karen Ryan

Name: KAREN RYAN

Date: 7/20/05

Title: PROJECT CHEMIST

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501175
Project:	Navy Clean Project 3/210-5958	**Date Collected:**	07/12/2005
Sample Matrix:	Water	**Date Received:**	07/13/2005

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name:	1#/2#	**Units:**	ug/L
Lab Code:	L0501175-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Aniline	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Bis(2-chloroethyl) Ether	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
1,2-Dichlorobenzene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
1,3-Dichlorobenzene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
1,4-Dichlorobenzene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Bis(2-chloroisopropyl) Ether	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
N-Nitrosodi-n-propylamine	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Hexachloroethane	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
Nitrobenzene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Isophorone	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
bis(2-Chloroethoxy)methane	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
1,2,4-Trichlorobenzene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Naphthalene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
4-Chloroaniline	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Hexachlorobutadiene	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
2-Methylnaphthalene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Hexachlorocyclopentadiene	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
2-Chloronaphthalene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2-Nitroaniline	ND	U	230	10	07/14/05	07/16/05	LWG0502487	
Dimethyl Phthalate	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Acenaphthylene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
3-Nitroaniline	ND	U	230	10	07/14/05	07/16/05	LWG0502487	
Acenaphthene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Dibenzofuran	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2,4-Dinitrotoluene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2,6-Dinitrotoluene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Diethyl Phthalate	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
4-Chlorophenyl Phenyl Ether	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Fluorene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
4-Nitroaniline	ND	U	230	10	07/14/05	07/16/05	LWG0502487	
N-Nitrosodiphenylamine	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
4-Bromophenyl Phenyl Ether	ND	U	57	10	07/14/05	07/16/05	LWG0502487	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501175
Project:	Navy Clean Project 3/210-5958	**Date Collected:**	07/12/2005
Sample Matrix:	Water	**Date Received:**	07/13/2005

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name:	1#/2#	**Units:**	ug/L
Lab Code:	L0501175-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorobenzene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Phenanthrene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Anthracene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Di-n-butyl Phthalate	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Fluoranthene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Pyrene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Butyl Benzyl Phthalate	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
3,3'-Dichlorobenzidine	ND	U	230	10	07/14/05	07/16/05	LWG0502487	
Benz(a)anthracene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Bis(2-ethylhexyl) Phthalate	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Chrysene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Di-n-octyl Phthalate	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Benzo(b)fluoranthene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Benzo(k)fluoranthene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Benzo(a)pyrene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Indeno(1,2,3-cd)pyrene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Dibenz(a,h)anthracene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Benzo(g,h,i)perylene	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Pyridine	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
Phenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2-Chlorophenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
Benzyl alcohol	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
2-Methylphenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
3- and 4-Methylphenol Coelution	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
2-Nitrophenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2,4-Dimethylphenol	ND	U	120	10	07/14/05	07/16/05	LWG0502487	
Benzoic acid	ND	U	570	10	07/14/05	07/16/05	LWG0502487	
2,4-Dichlorophenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
4-Chloro-3-methylphenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2,4,6-Trichlorophenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2,4,5-Trichlorophenol	ND	U	57	10	07/14/05	07/16/05	LWG0502487	
2,4-Dinitrophenol	ND	U	570	10	07/14/05	07/16/05	LWG0502487	
4-Nitrophenol	ND	U	570	10	07/14/05	07/16/05	LWG0502487	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501175
Project:	Navy Clean Project 3/210-5958	**Date Collected:**	07/12/2005
Sample Matrix:	Water	**Date Received:**	07/13/2005

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name:	1#/2#	**Units:**	ug/L
Lab Code:	L0501175-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Methyl-4,6-dinitrophenol	ND	U	230	10	07/14/05	07/16/05	LWG0502487	
Pentachlorophenol	ND	U	350	10	07/14/05	07/16/05	LWG0502487	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	27	13-81	07/16/05	Acceptable
Phenol-d5	26	12-51	07/16/05	Acceptable
2,4,6-Tribromophenol	48	20-140	07/16/05	Acceptable
Nitrobenzene-d5	61	54-109	07/16/05	Acceptable
2-Fluorobiphenyl	65	55-100	07/16/05	Acceptable
Terphenyl-d14	83	61-130	07/16/05	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Ecology Control Industries, Incorporated
Project Name : Navy Clean Project 3 CTO-0065, IR Site 32
Project No. : 210-5958

Service Request : L0501167

Sample Name :	Lab Code :
Batch QC	L0501111-021S
Batch QC	L0501111-021SD
Batch QC	L0501164-001S
Batch QC	L0501164-001SD
2	L0501167-001
2	L0501167-001S
2	L0501167-001SD
Laboratory Control Sample	L0501167-LCS
Method Blank	L0501167-MB

Approved By: Alex Fuller Date: 7/21/05

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Ecology Control Industries, Incorporated	**Service Request :**	L0501167
Project Name :	Navy Clean Project 3 CTO-0065, IR Site 32	**Date Collected :**	07/07/05
Project No. :	210-5958	**Date Received :**	07/08/05
Matrix :	Water	**Date Extracted :**	07/12-18/05

Total Metals

Sample Name :	2	**Units :**	ug/L (ppb)
Lab Code :	L0501167-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	6010B	50	07/15/05	ND	
Arsenic	6020	5	07/20/05	79	F1A
Barium	6010B	20	07/15/05	3540	
Beryllium	6010B	2.0	07/15/05	4	
Cadmium	6010B	10	07/18/05	ND	
Chromium	6010B	10	07/15/05	449	
Cobalt	6010B	10	07/18/05	4830	
Copper	6010B	10	07/15/05	413	
Lead	6010B	50	07/15/05	320	
Mercury	7470A	0.2	07/15/05	0.2	
Molybdenum	6010B	20	07/15/05	105	
Nickel	6010B	40	07/18/05	536	
Selenium	6020	50	07/20/05	ND	F1A
Silver	6010B	10	07/15/05	11	
Thallium	6020	5	07/20/05	ND	F1A
Vanadium	6010B	10	07/15/05	579	
Zinc	6010B	20	07/15/05	937	

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Ecology Control Industries, Incorporated
Project Name : Navy Clean Project 3: CTO-0065, IR Site 32
Project No. : 210-5958

Service Request : L0501112

Sample Name :	Lab Code :
Batch QC	L0501105-002S
Batch QC	L0501105-002SD
Solid Soil	L0501112-001
Solid Soil	L0501112-001S
Solid Soil	L0501112-001SD
Laboratory Control Sample	L0501112-LCS
Method Blank	L0501112-MB

Approved By: Alex Fuller Date: 7/13/05

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Ecology Control Industries, Incorporated	Service Request :	L0501112
Project Name :	Navy Clean Project 3: CTO-0065, IR Site 32	Date Collected :	06/30/05
Project No. :	210-5958	Date Received :	07/02/05
Matrix :	Soil	Date Extracted :	07/06/05

Total Metals

Sample Name :	Solid Soil	Units :	mg/Kg (ppm)
Lab Code :	L0501112-001	Basis :	Wet

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	6010B	10	07/07/05	ND	
Arsenic	6020	3	07/12/05	5	
Barium	6010B	1	07/07/05	48	
Beryllium	6010B	0.5	07/07/05	ND	
Cadmium	6010B	1	07/07/05	ND	
Chromium	6010B	2	07/07/05	32	
Cobalt	6010B	2	07/07/05	5	
Copper	6010B	2	07/07/05	21	
Lead	6010B	5	07/07/05	23	
Mercury	7471A	0.05	07/06/05	ND	
Molybdenum	6010B	10	07/07/05	ND	
Nickel	6010B	5	07/07/05	25	
Selenium	6020	3	07/12/05	ND	
Silver	6010B	1	07/07/05	ND	
Thallium	6020	0.4	07/12/05	ND	
Vanadium	6010B	1	07/07/05	21	
Zinc	6010B	2	07/07/05	48	

LABORATORY REPORT

Aquatic Testing Laboratories
"dedicated to providing quality aquatic toxicity testing"
4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650- 0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: July 11, 2005

Client: Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303
Attn: Ed Wilson

Laboratory No.: A-05070610-001
Sample ID.: L0501112-001

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 06/20/05
Date Received: 07/06/05
Date Tested: 07/06/05 to 07/11/05

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 - Fathead Minnow Hazardous Waste Screen Bioassay (Polisini and Miller 1988).

Attached are the test data generated from the analysis of your sample.

Result Summary:

Sample ID.	Results
L0501112-001	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Aquatic Testing Laboratories

FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Lab No.: A050706 10-021

Client/ID: CAS L0501112-001

TEST SUMMARY

Species: *Pimephales promelas*.
Fish length (mm): av: 26; min: 25; max: 27.
Fish weight (gm): av: 0.31; min: 0.26; max: 0.35.
Test chamber volume: 10 liters.
Temperature: 20 +/- 2°C.
Aeration: Single bubble through narrow bore tube.
Number of replicates: 2.
Dilution water: Soft reconstituted water (40 - 48 mg/l $CaCO_3$).
QA/QC Batch No.: RT-050609.

Source: In-lab culture.
Regulations: CCR Title 22.
Test Protocol: California F&G/DHS 1988.
Endpoints: Survival at 96 hrs.
Test type: Static.
Feeding: None.
Number of fish per chamber: 10.
Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL			24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	7-7-05 1100			7-8-05 1030				7-9-05 1000				7-10-05 1000				7-11-05 1000			
Analyst:	[illegible]			[illegible]				[illegible]				[illegible]				[illegible]			
	°C	DO	pH	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Control A	20.1	8.3	8.0	20.5	8.0	7.9	0	20.4	7.9	7.9	0	20.5	7.8	7.8	0	20.6	7.8	7.8	0
Control B	20.0	8.5	8.0	20.4	8.5	7.8	0	20.3	8.2	7.8	0	20.5	8.2	7.8	0	20.5	8.3	7.8	0
400 mg/l A	20.2	8.4	8.0	20.5	8.5	7.7	0	20.4	8.5	7.7	0	20.5	8.4	7.9	0	20.5	8.2	7.7	0
400 mg/l B	20.1	8.4	8.0	20.4	8.6	7.7	0	20.3	8.4	7.7	0	20.5	8.1	7.9	0	20.5	8.1	7.8	0
750 mg/l A	20.0	8.3	8.1	20.4	8.7	7.8	0	20.3	8.6	7.7	0	20.5	8.3	7.8	0	20.4	8.1	7.8	0
750 mg/l B	19.9	8.5	8.1	20.3	8.4	7.8	0	20.2	8.7	7.8	0	20.4	8.4	7.8	0	20.4	8.1	7.7	0

Comments: Extraction method: Mechanical shaking X.
None (aqueous solution) —.

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	29 mg/l $CaCO_3$	44 mg/l $CaCO_3$	32 mg/l $CaCO_3$	44 mg/l $CaCO_3$
Final	30 mg/l $CaCO_3$	45 mg/l $CaCO_3$	28 mg/l $CaCO_3$	46 mg/l $CaCO_3$

RESULTS

Total Number Dead	
Control	0 /20
400 mg/l	0 /20
750 mg/l	0 /20

✓ (one)	Result	Description
✓	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

Columbia Analytical Services, Inc. Chain of Custody

6925 Canoga Avenue • Canoga Park, CA 91303 • 818-587-5550 • FAX 818-587-5555

CAS Contact: Ed Wilson

Project Number: L0501112
Project Manager: Ed Wilson

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	BIOASSAY CCR 6261.24
L0501112-001	Solid Soil		Soil	06/30/05	0800	Aquatic Ventura	

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
	____RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ____STANDARD Requested FAX Date: _____ Requested Report Date: 07/21/05	____I. Results Only ____II. Results + QC Summaries ____III. Results + QC and Calibration Summaries ____IV. Data Validation Report with Raw Data PQL/MDL/J N EDD N No EDD Specified	PO# L0501112 Bill to

Relinquished By: 7/6/05 1110 Received By: 7-6-05 1110 Airbill Number:

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-*tert*-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	*Standard Methods for the Examination of Water and Wastewater* 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3: CTO-0065, IR Site 32/210-5958

Service Request: L0501112

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
Solid Soil	L0501112-001	06/30/2005	07/02/2005

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: DEIDRE GOODRICH

Date: 7/11/05 Title: CHEMIST

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	Service Request:	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	Date Collected:	06/30/2005
Sample Matrix:	Soil	Date Received:	07/02/2005

Volatile Organic Compounds

Sample Name:	Solid Soil	Units:	ug/Kg
Lab Code:	L0501112-001	Basis:	Wet
Extraction Method:	EPA 5035	Level:	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Chloromethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Vinyl Chloride	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Bromomethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Chloroethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Trichlorofluoromethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Acetone	ND	U	16	1	07/07/05	07/07/05	LWG0502387	
1,1-Dichloroethene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Carbon Disulfide	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Methylene Chloride	**5.8**		4.0	1	07/07/05	07/07/05	LWG0502387	
trans-1,2-Dichloroethene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,1-Dichloroethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
2-Butanone (MEK)	ND	U	16	1	07/07/05	07/07/05	LWG0502387	
2,2-Dichloropropane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
cis-1,2-Dichloroethene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Chloroform	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Bromochloromethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,1,1-Trichloroethane (TCA)	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,1-Dichloropropene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Carbon Tetrachloride	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dichloroethane (EDC)	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Benzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Trichloroethene (TCE)	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dichloropropane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Bromodichloromethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Dibromomethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
2-Hexanone	ND	U	16	1	07/07/05	07/07/05	LWG0502387	
cis-1,3-Dichloropropene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Toluene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
trans-1,3-Dichloropropene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,1,2-Trichloroethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
4-Methyl-2-pentanone (MIBK)	ND	U	16	1	07/07/05	07/07/05	LWG0502387	
1,3-Dichloropropane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Tetrachloroethene (PCE)	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	Service Request:	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	Date Collected:	06/30/2005
Sample Matrix:	Soil	Date Received:	07/02/2005

Volatile Organic Compounds

Sample Name:	Solid Soil	Units:	ug/Kg
Lab Code:	L0501112-001	Basis:	Wet
Extraction Method:	EPA 5035	Level:	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dibromoethane (EDB)	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Chlorobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,1,1,2-Tetrachloroethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Ethylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Total Xylenes	ND	U	12	1	07/07/05	07/07/05	LWG0502387	
Styrene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Bromoform	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Isopropylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,1,2,2-Tetrachloroethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2,3-Trichloropropane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Bromobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
n-Propylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
2-Chlorotoluene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
4-Chlorotoluene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,3,5-Trimethylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
tert-Butylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2,4-Trimethylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
sec-Butylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,3-Dichlorobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
4-Isopropyltoluene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,4-Dichlorobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
n-Butylbenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dichlorobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dibromo-3-chloropropane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2,4-Trichlorobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
1,2,3-Trichlorobenzene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Naphthalene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Hexachlorobutadiene	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Methyl tert-Butyl Ether	ND	U	7.9	1	07/07/05	07/07/05	LWG0502387	
1,1,2-Trichlorotrifluoroethane	ND	U	4.0	1	07/07/05	07/07/05	LWG0502387	
Vinyl Acetate	ND	U	16	1	07/07/05	07/07/05	LWG0502387	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	06/30/2005
Sample Matrix:	Soil	**Date Received:**	07/02/2005

Volatile Organic Compounds

Sample Name:	Solid Soil	**Units:**	ug/Kg
Lab Code:	L0501112-001	**Basis:**	Wet

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	62-136	07/07/05	Acceptable
Toluene-d8	107	67-131	07/07/05	Acceptable
4-Bromofluorobenzene	97	64-130	07/07/05	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3: CTO-0065, IR Site 32/210-5958
Sample Matrix: Soil

Service Request: L0501112
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: LWG0502387-3

Units: ug/Kg
Basis: Wet

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Chloromethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Vinyl Chloride	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Bromomethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Chloroethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Trichlorofluoromethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Acetone	ND	U	20	1	07/07/05	07/07/05	LWG0502387	
1,1-Dichloroethene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Carbon Disulfide	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Methylene Chloride	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
trans-1,2-Dichloroethene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,1-Dichloroethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
2-Butanone (MEK)	ND	U	20	1	07/07/05	07/07/05	LWG0502387	
2,2-Dichloropropane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
cis-1,2-Dichloroethene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Chloroform	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Bromochloromethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,1-Dichloropropene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Carbon Tetrachloride	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dichloroethane (EDC)	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Benzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Trichloroethene (TCE)	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dichloropropane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Bromodichloromethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Dibromomethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
2-Hexanone	ND	U	20	1	07/07/05	07/07/05	LWG0502387	
cis-1,3-Dichloropropene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Toluene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
trans-1,3-Dichloropropene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,1,2-Trichloroethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	07/07/05	07/07/05	LWG0502387	
1,3-Dichloropropane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Tetrachloroethene (PCE)	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	LWG0502387-3	**Basis:**	Wet
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dibromoethane (EDB)	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Chlorobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,1,1,2-Tetrachloroethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Ethylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Total Xylenes	ND	U	15	1	07/07/05	07/07/05	LWG0502387	
Styrene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Bromoform	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Isopropylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,1,2,2-Tetrachloroethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2,3-Trichloropropane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Bromobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
n-Propylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
2-Chlorotoluene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
4-Chlorotoluene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,3,5-Trimethylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
tert-Butylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2,4-Trimethylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
sec-Butylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,3-Dichlorobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
4-Isopropyltoluene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,4-Dichlorobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
n-Butylbenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dichlorobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2-Dibromo-3-chloropropane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2,4-Trichlorobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
1,2,3-Trichlorobenzene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Naphthalene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Hexachlorobutadiene	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Methyl tert-Butyl Ether	ND	U	10	1	07/07/05	07/07/05	LWG0502387	
1,1,2-Trichlorotrifluoroethane	ND	U	5.0	1	07/07/05	07/07/05	LWG0502387	
Vinyl Acetate	ND	U	20	1	07/07/05	07/07/05	LWG0502387	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	LWG0502387-3	**Basis:**	Wet

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	62-136	07/07/05	Acceptable
Toluene-d8	106	67-131	07/07/05	Acceptable
4-Bromofluorobenzene	95	64-130	07/07/05	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958		
Sample Matrix:	Soil		

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method:	EPA 5035	**Units:**	PERCENT
Analysis Method:	8260B	**Level:**	Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
Solid Soil	L0501112-001	99	107	97
Method Blank	LWG0502387-3	101	106	95
Lab Control Sample	LWG0502387-1	109	110	97
Duplicate Lab Control Sample	LWG0502387-2	107	109	96

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	62-136
Sur2 =	Toluene-d8	67-131
Sur3 =	4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Extracted:**	07/07/2005
Sample Matrix:	Soil	**Date Analyzed:**	07/07/2005

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5035	**Units:**	ug/Kg
Analysis Method:	8260B	**Basis:**	Wet
		Level:	Low
		Extraction Lot:	LWG0502387

	Lab Control Sample LWG0502387-1 Lab Control Spike			Duplicate Lab Control Sample LWG0502387-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane	25.9	20.0	130	24.4	20.0	122	48-139	6	30
Chloromethane	19.4	20.0	97	19.2	20.0	96	54-127	1	30
Vinyl Chloride	20.4	20.0	102	19.7	20.0	98	58-132	4	30
Bromomethane	16.2	20.0	81	14.5	20.0	73	52-137	11	30
Chloroethane	22.6	20.0	113	22.0	20.0	110	57-134	2	30
Trichlorofluoromethane	23.5	20.0	117	21.4	20.0	107	53-137	9	30
Acetone	93.0	100	93	88.3	100	88	66-147	5	30
1,1-Dichloroethene	21.5	20.0	107	19.8	20.0	99	66-130	8	30
Carbon Disulfide	37.3	40.0	93	34.5	40.0	86	57-121	8	30
Methylene Chloride	20.4	20.0	102	18.9	20.0	95	68-122	7	30
trans-1,2-Dichloroethene	20.3	20.0	101	18.2	20.0	91	69-123	11	30
1,1-Dichloroethane	19.5	20.0	97	17.8	20.0	89	63-125	9	30
2-Butanone (MEK)	94.5	100	95	87.4	100	87	63-128	8	30
2,2-Dichloropropane	20.2	20.0	101	18.2	20.0	91	60-133	10	30
cis-1,2-Dichloroethene	19.5	20.0	97	18.2	20.0	91	69-120	7	30
Chloroform	20.7	20.0	103	19.1	20.0	96	70-123	8	30
Bromochloromethane	20.8	20.0	104	19.4	20.0	97	67-125	7	30
1,1,1-Trichloroethane (TCA)	20.3	20.0	102	18.4	20.0	92	66-124	10	30
1,1-Dichloropropene	17.7	20.0	88	16.2	20.0	81	68-121	9	30
Carbon Tetrachloride	21.2	20.0	106	19.0	20.0	95	61-127	11	30
1,2-Dichloroethane (EDC)	20.6	20.0	103	18.9	20.0	95	65-128	8	30
Benzene	18.3	20.0	92	17.4	20.0	87	64-125	5	30
Trichloroethene (TCE)	19.0	20.0	95	17.3	20.0	86	70-116	9	30
1,2-Dichloropropane	17.9	20.0	90	16.6	20.0	83	61-126	7	30
Bromodichloromethane	20.7	20.0	104	18.9	20.0	94	72-120	9	30
Dibromomethane	20.7	20.0	104	19.2	20.0	96	73-117	7	30
2-Hexanone	94.4	100	94	86.4	100	86	63-134	9	30
cis-1,3-Dichloropropene	19.2	20.0	96	17.6	20.0	88	70-120	9	30
Toluene	19.7	20.0	99	18.2	20.0	91	69-119	8	30
trans-1,3-Dichloropropene	19.9	20.0	99	18.1	20.0	91	72-120	9	30
1,1,2-Trichloroethane	19.8	20.0	99	18.6	20.0	93	69-120	7	30
4-Methyl-2-pentanone (MIBK)	91.2	100	91	85.4	100	85	66-132	7	30
1,3-Dichloropropane	18.9	20.0	94	17.5	20.0	88	69-126	7	30
Tetrachloroethene (PCE)	20.2	20.0	101	18.2	20.0	91	67-119	10	30
Dibromochloromethane	21.0	20.0	105	19.3	20.0	97	67-121	8	30
1,2-Dibromoethane (EDB)	21.0	20.0	105	19.5	20.0	98	74-118	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Extracted:**	07/07/2005
Sample Matrix:	Soil	**Date Analyzed:**	07/07/2005

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5035	**Units:**	ug/Kg
Analysis Method:	8260B	**Basis:**	Wet
		Level:	Low
		Extraction Lot:	LWG0502387

	Lab Control Sample LWG0502387-1 Lab Control Spike			Duplicate Lab Control Sample LWG0502387-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Chlorobenzene	18.7	20.0	94	17.3	20.0	86	67-116	8	30
1,1,1,2-Tetrachloroethane	19.3	20.0	97	17.7	20.0	89	70-115	9	30
Ethylbenzene	18.7	20.0	93	17.2	20.0	86	68-120	8	30
Total Xylenes	53.6	60.0	89	49.5	60.0	82	65-121	8	30
Styrene	17.3	20.0	86	16.1	20.0	81	60-105	7	30
Bromoform	19.7	20.0	99	18.1	20.0	91	71-117	8	30
Isopropylbenzene	17.7	20.0	88	16.2	20.0	81	65-119	9	30
1,1,2,2-Tetrachloroethane	18.8	20.0	94	17.6	20.0	88	60-136	7	30
1,2,3-Trichloropropane	17.3	20.0	86	16.1	20.0	80	66-127	7	30
Bromobenzene	18.6	20.0	93	17.3	20.0	87	67-119	7	30
n-Propylbenzene	17.4	20.0	87	16.2	20.0	81	56-132	7	30
2-Chlorotoluene	18.9	20.0	95	17.6	20.0	88	61-131	7	30
4-Chlorotoluene	17.9	20.0	89	16.7	20.0	84	58-128	7	30
1,3,5-Trimethylbenzene	18.2	20.0	91	16.8	20.0	84	61-129	8	30
tert-Butylbenzene	18.4	20.0	92	17.0	20.0	85	62-125	8	30
1,2,4-Trimethylbenzene	16.8	20.0	84	15.7	20.0	78	59-124	7	30
sec-Butylbenzene	17.3	20.0	87	16.0	20.0	80	56-128	8	30
1,3-Dichlorobenzene	17.6	20.0	88	16.5	20.0	82	65-119	7	30
4-Isopropyltoluene	17.3	20.0	87	16.2	20.0	81	61-123	7	30
1,4-Dichlorobenzene	17.6	20.0	88	16.3	20.0	82	66-117	7	30
n-Butylbenzene	15.4	20.0	77	14.2	20.0	71	55-127	8	30
1,2-Dichlorobenzene	18.4	20.0	92	17.2	20.0	86	69-119	7	30
1,2-Dibromo-3-chloropropane	36.7	40.0	92	34.3	40.0	86	70-123	7	30
1,2,4-Trichlorobenzene	13.9	20.0	70	12.9	20.0	64	61-119	8	30
1,2,3-Trichlorobenzene	13.7	20.0	69	12.8	20.0	64	60-123	7	30
Naphthalene	9.75	20.0	49 *	9.24	20.0	46 *	55-135	5	30
Hexachlorobutadiene	18.3	20.0	92	17.1	20.0	86	64-125	7	30
Methyl tert-Butyl Ether	38.6	40.0	97	35.5	40.0	89	64-131	8	30
1,1,2-Trichlorotrifluoroethane	24.3	20.0	121	21.8	20.0	109	67-136	11	30
Vinyl Acetate	52.4	40.0	131	46.9	40.0	117	59-143	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	6/30/05
Sample Matrix:	Soil	**Date Received:**	7/2/05

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Solid Soil	Units:	mg/Kg (ppm)
Lab Code:	L0501112-001	Basis:	Wet
Test Notes:	D2		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
C6 - C12 GRO	EPA 3550M	8015M	10	1	7/7/05	7/7/05	ND	
C13 - C22 DRO	EPA 3550M	8015M	10	1	7/7/05	7/7/05	11	
C23 - C32 HRO	EPA 3550M	8015M	10	1	7/7/05	7/7/05	19	
Total Petroleum Hydrocarbons	EPA 3550M	8015M	30	1	7/7/05	7/7/05	30	
Fuel Characterization	EPA 3550M	8015M						I5

GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D2	Quantified as Diesel.
I5	Chromatogram fingerprint is not characteristic of any particular fuel type; however, hydrocarbons eluting within the stated carbon ranges were detected.

Approved By: Karen Ryan Date: 7/9/05

1S22/030597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	L050707-MB	Basis:	Wet
Test Notes:	D2		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
C6 - C12 GRO	EPA 3550M	8015M	10	1	7/7/05	7/8/05	ND	
C13 - C22 DRO	EPA 3550M	8015M	10	1	7/7/05	7/8/05	ND	
C23 - C32 HRO	EPA 3550M	8015M	10	1	7/7/05	7/8/05	ND	
Total Petroleum Hydrocarbons	EPA 3550M	8015M	30	1	7/7/05	7/8/05	ND	
Fuel Characterization	EPA 3550M	8015M					NA	

GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HRO	Heavy Oil Range Organics
D2	Quantified as Diesel.

Approved By: Karen Rye Date: 7/9/05

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	NA

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Prep Method:	EPA 3550M	Units:	PERCENT
Analysis Method:	8015M	Basis:	Wet

Sample Name	Lab Code	Test Notes	Percent Recovery *p*-Terphenyl
Solid Soil	L0501112-001		85
Method Blank	L050707-MB		75
Batch QC	L0501133-007MS		91
Batch QC	L0501133-007DMS		87
Lab Control Sample	L050707-LCS		98

CAS Acceptance Limits: 75-142

Approved By: Karen Rya Date: 7/9/05

SUR1/061197p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Ecology Control Industries, Incorporated	**Service Request:**	L0501112
Project:	Navy Clean Project 3: CTO-0065, IR Site 32/210-5958	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	7/7/05
		Date Analyzed:	7/8/05

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Batch QC	Units:	mg/Kg (ppm)
Lab Code:	L0501133-007MS, L0501133-007DMS	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Diesel	EPA 3550M	8015M	11	229	229	11.0	229	228	95	95	56-139	<1	

Approved By: Karen Ryan Date: 7/9/05

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Ecology Control Industries, Incorporated
Project: Navy Clean Project 3: CTO-0065, IR Site 32/210-5958
LCS Matrix: Soil

Service Request: L0501112
Date Collected: NA
Date Received: NA
Date Extracted: 7/7/05
Date Analyzed: 7/7/05

Laboratory Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Lab Control Sample
Lab Code: L050707-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Diesel	EPA 3550M	8015M	200	200	100	77-114	

Approved By: Karen Rya Date: 7/9/05

LCS/mans97p

L0501112

ECI
ECOLOGY CONTROL INDUSTRIES
A Full Service Environmental Company

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project Name: Navy Clean Project 3; CTO-0065, IR Site 32
Project No. 210-5958
Project Contact / Phone No. 510-7147787
Samples Shipment Date 6-30-05
Turn Around Time 10 Day's
Report To Joseph A. Brown

Samplers Joseph A. Brown
Purchase Order No.
Laboratory Eberline Labs
Eberline

Special Instructions / Comments

Sample ID	Sample Matrix	Date Collected	Time Collected	Sample Container	Preservative	Sample Volume	Alpha Analysis	Beta Analysis	Gamma Analysis				Comments
#1	Water Liquids	6/30	8:00am	Glass Jar	NONE	2 lb	✓	✓	✓	7/1/05			~~2 Containers~~
* #2 (1)	Solid Soil	6/30	8:00am	Metal Sleeve	NONE	1/4 lb	✓	✓	✓	7/1/05			1
													See Attached Analysis Request by ECI client.

Relinquished By: (signature) (printed)	Received By: (signature) (printed)	Date:	Time:
M J Joseph A Brown Joseph A. Brown 6/30/05 9:45am	Melissa Mannion Eberline Services 6/30/05 9:46pm		
Alex Kelenson KELENSON 7/1/05 16:00	FEDEX		
FEDEX	Lonnie Kukita Lonnie Kukita	7/2/05	131530

SAMPLE RECEIPT FORM

Service Request No: L0501112 Client: EBERLINE/ECI

Sample(s) delivered by: Client ____ CAS Emp ____ After Hours ____ DHL ____

Golden State Overnight ____ Fed X ✓ UPS ____ Other Courier ____

Chain of Custody filled out accurately? Yes ✓ No ____ (See Comments)

Appropriate sample volume and containers? Yes ✓ No ____ (See Comments)

Sufficient labeling on container(s)? Yes ✓ No ____ (See Comments)

Container(s) supplied by CAS? Yes ____ No ✓ (See Comments)

Custody seal(s) intact? N/A ✓ Yes ____ No ____ (See Comments)

Trip Blank(s) received Yes ____ No ✓

If Trip Blank was supplied by CAS, record serial # ____-TB-____

Temperature of sample(s)/cooler 2 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ____ No ____ Filled Properly? Yes ____ No ____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ____ Appropriate Preservation? Yes ____ No ____

RUSH Turn around time? Yes ____ Notified ____ Date & Time ____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl____	D.O____	Flash____	Diss S2-____	Ferrous Fe____
24HR	pH____	Odor____	Cr+6____		
48HR	BOD____	Color____	MBAS____	Nitrate____	
	Nitrite____	O-PO4____	Sett Sol____	Turbidity____	
72HR	Vapors____				

Notified ____ Date & Time ____

Container(s) received and their preservative(s):

-1 = 1- BRASS SOIL SLEEVE
3- 40ml VOA W/STIR BAR } SPLIT IN LAB
1- 4oz jar

Comments ____

Initials, Date, Time LC 7/5/05 r:\sr_forms\cooler.doc Rev. 2/25/02

BECHTEL ENVIRONMENTAL, INC.

CLEAN 3 TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N-68711-95-D-7526 **Document Control No.** CTO-0065/0300

File Code. 0218

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Richard Lovering, AQE.RL
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: August 2, 2005
CTO #: 0065
LOCATION: Alameda Point, Alameda, CA

FROM: _____
John D. Vellis, Contracts & Compliance Manager

DESCRIPTION Investigation-Derived Waste Disposal for CTO-0065, Water and Soil Generated During the Remedial Investigation at Installation Restoration Site 32

TYPE: Contract Deliverable (Cost) ___ CTO Deliverable (Technical) X Other ___

VERSION: N/A (e.g., Draft, Draft Final, Final, etc.) REVISION #: 0

ADMIN RECORD: (PM to Identify) Yes ___ No X US EPA Category ___ Confidential ___

SCHEDULED DELIVERY DATE: N/A ACTUAL DELIVERY DATE: 08/11/05

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Basic Contract File 02R1 (1C)	J. Howe	
D. Silva, EVR.DS (1C/1E)	J. Vellis	
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O = Original Transmittal Sheet & Letter
C = Copy Transmittal Sheet & Letter
E = Enclosure

Date/Time Received