INTEGRATED
ENVIRONMENTAL SERVICES, INC.

Appendices

Parcel B Pipeline Easement Assessment Report

Boeing Realty Corporation
Former C-6 Facility
Los Angeles, California
March 2001

INTEGRATED
ENVIRONMENTAL SERVICES, INC.

Appendix A

Air Quality Monitoring Data and Field Notes

Parcel B Pipeline Easement Assessment Report

Boeing Realty Corporation
Former C-6 Facility
Los Angeles, California
March 2001

INTEGRATED
Environmental Services, Inc.

AIR MONITORING RECORD

Background and breathing zone samples must be collected on every field project for each unique activity.

GENERAL SITE INFORMATION

SITE NAME: Boeing Co, Southern Border DATE: 2/1/00
ADDRESS:

ATMOSPHERIC CONDITIONS:
- ✓ sunny
- ___ partly sunny
- ___ cloudy
- ___ temperature (°F)

Humidity (%):
- ___ low (0-30)
- ✓ med (30-70)
- ___ high (70-100)

Wind (mph):
- ✓ light (0-5)
- ___ moderate (5-20)
- ___ high (>20)

DESCRIPTION OF FIELD ACTIVITIES: Drilling for caisson installation at southern border of property.

SAMPLING INSTRUMENT USED:

Name of Instrument: 580 B OVA "Smart Portable" Lamp (eV): 10.6

Model #: 580B Serial #: 580V-60699-328

INSTRUMENT CALIBRATION:

Calib. #	Time	Span gas substance/ concentration	Reading after calibration	Reading at end of day	Comments
1	0705	100ppm Isobutylene	000.0 ppm	000.0ppm	
2					
3					

AIR MONITORING RECORD:

SAMPLE NUMBER	SAMPLE DESCRIPTION: (Specific location and activity being conducted, Sample location, Purpose of sample.)	TIME	WIND DIRECT.	SAMPLE RESULTS	SAMPLER INITIALS
1	Commenced taking PID readings at caisson #12. No odors or staining detected.	0720	None	0ppm	AC
2	Took PID readings every time auger was lifted (~5-10min). No odors or staining detected.	0748	None	0ppm	AC
3	Began taking PID readings at caisson #13. No odors or staining noted.	0805	None	0ppm	AC

AIR MONITORING RECORD (Continued):

SAMPLE NUMBER	SAMPLE DESCRIPTION: (Specific location and activity being conducted. Sample location, Purpose of sample.)	TIME	WIND DIRECT.	SAMPLE RESULTS	SAMPLER INITIALS
4	Took last reading at caisson #13. PID readings of 0ppm at regular intervals. No odors or staining detected.	0840	None	0ppm	AC
5	PID reading at caisson #14. No odors or staining.	0853	None	0ppm	AC
6	PID readings of caisson #14 soil. Readings were taken every 5-10min. Every time the auger was lifted. No odors or staining.	0914	None	0ppm	AC
7	Caisson #15. PID readings of excavated soil as the auger is lifted. No odors or staining detected.	0923	None	0ppm	AC
8	PID readings were taken every time the auger was lifted for soil removal. No odors or staining detected.	0940	None	0ppm	AC
9	Began taking PID readings at caisson #16 No odors or staining detected.	0945	None	0ppm	AC
10	No odors or staining were detected during the drilling of caisson #16.	1005	None	0ppm	AC
11	Caisson #17. No odors or staining detected.	1012	None	0ppm	AC
12	Several readings at caisson #17. No odors or staining detected.	1034	None	0ppm	AC
13	Began taking readings at caisson #18.	1100	None	0ppm	AC
14	Reading of soil excavated from ~8-10 ft. bgs. Stopped drilling at this caisson.	1118	East	250ppm	AC
15	Reading at caisson #22. No odors or staining detected.	1135	East	0ppm	AC
16	Reading of soil saturated at water. No odors, but soil is stained grey.	1148	East	0ppm	AC
17	Began taking readings at caisson #38. No odors or staining detected.	1400	East	0ppm	AC

ABBREVIATIONS: A=AREA, BZ=BREATHING ZONE, P=PERIMETER, BG=BACKGROUND, UW=UPWIND

SAMPLER NAME: Anderson Cherry

SIGNATURE: 2/1/00

INTEGRATED
Environmental Services, Inc.

AIR MONITORING RECORD

Background and breathing zone samples must be collected on every field project for each unique activity.

GENERAL SITE INFORMATION

SITE NAME: Boeing C-6, ~~Parcel~~ DATE: 1/31/00
ADDRESS:

ATMOSPHERIC CONDITIONS:
___ sunny
___ partly sunny
✓ cloudy
___ temperature (°F)

Humidity (%):
___ low (0-30)
___ med (30-70)
✓ high (70-100)

Wind (mph):
✓ light (0-5)
___ moderate (5-20)
___ high (>20)

DESCRIPTION OF FIELD ACTIVITIES: Drilling along the southern border of Parcel B for the installation of a retaining wall.

SAMPLING INSTRUMENT USED:

Name of Instrument: 580 B OVA "Smart Portable" Lamp (eV): 10.6

Model #: 580 B Serial #: 5801-60699-328

INSTRUMENT CALIBRATION:

Calib. #	Time	Span gas substance/ concentration	Reading after calibration	Reading at end of day	Comments
1	0740	100ppm Isobutylene	000.0ppm	000.0ppm	
2					
3					

AIR MONITORING RECORD:

SAMPLE NUMBER	SAMPLE DESCRIPTION: (Specific location and activity being conducted, Sample location, Purpose of sample.)	TIME	WIND DIRECT.	SAMPLE RESULTS	SAMPLER INITIALS
1	Began taking PID readings of soil being drilled. No odors or staining observed.	0950	None	0ppm	AC
2	PID readings of excavated soil. No odors or staining.	0957	None	0ppm	AC
3 →	Took PID readings of excavated soil every time the auger was lifted for soil removal ~every 5 minutes.	1000 → 1100	East	0ppm	AC.

AIR MONITORING RECORD (Continued):

SAMPLE NUMBER	SAMPLE DESCRIPTION: (Specific location and activity being conducted. Sample location. Purpose of sample.)	TIME	WIND DIRECT.	SAMPLE RESULTS	SAMPLER INITIALS
4 →	Readings of every auger-full of soil excavated. No odors or staining detected.	1225 → 1500	East	0ppm	AC
	The drillers finished caysson excavation for caysson #11. They skipped #1.				

ABBREVIATIONS: A=AREA, BZ=BREATHING ZONE, P=PERIMETER, BG=BACKGROUND, UW=UPWIND

SAMPLER NAME: Anderson Chung

SIGNATURE: Anderson Chung

South Coast
Air Quality Management District
21865 E. Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 - http://www.aqmd.gov

September 10, 1998

COID: 113837
Ecology Control Industries, Inc.
1101 E. Spring Street
Long Beach, CA, 90806

Mitigation Plan No. 344190

VARIOUS LOCATIONS
RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your application (A/N: 344190) for the excavation and handling of VOC-contaminated soil at **various locations** within the South Coast Air Quality Management District.

In accordance with Rule 1166 (c), this approved plan is required prior to commencing excavation of any underground storage tank or transfer piping which has previously been used to store or transfer volatile organic compounds (VOC) and during the excavation, handling, or storage of VOC-contaminated soils.

The rights and privileges granted through the issuance of this plan are restricted exclusively to the plan holder to which it was issued, and are non-transferable, even with the written or expressed consent of the plan holder listed above.

This excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the AQMD and is subject to the following conditions.

PLAN CONDITIONS:

SECTION I – GENERAL REQUIREMENTS

1. THIS EXCAVATION PLAN IS VALID UNTIL SEPTEMBER 10, 2000.

2. A SIGNED COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

3. THIS PLAN IS NOT VALID FOR THE EXCAVATION OF VOC CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

4. THIS PLAN SHALL NOT BE USED IN CONJUNCTION WITH ANY ON SITE TREATMENT PROCESS. SUCH ACTIVITIES REQUIRE SUBMITTAL OF A SITE SPECIFIC RULE 1166 MITIGATION PLAN. THIS PLAN DOES NOT ALLOW THE TREATMENT OF VOC-CONTAMINATED SOIL BY CHEMICAL, BIOLOGICAL OR MECHANICAL PROCESSES. ANY OF THE ABOVE TREATMENT PROCESSES REQUIRES A PERMIT TO OPERATE FROM THE AQMD.

5. THE TOTAL QUANTITY OF VOC CONTAMINATED SOIL EXCAVATED AND HANDLED AT EACH SITE SHALL NOT EXCEED 2000 CUBIC YARDS. THIS TOTAL INCLUDES ANY VOC CONTAMINATED SOILS EXCAVATED FROM THIS LOCATION UNDER A VARIOUS LOCATION PLAN WITHIN THE LAST TWELVE (12) CALANDAR MONTHS. EXCAVATIONS INVOLVING QUANTITIES IN EXCESS OF 2000 CUBIC YARDS REQUIRES THE SUBMITTAL OF A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

6. THE AQMD SHALL BE IMMEDIATELY NOTIFIED OF ANY COMPLAINTS RECEIVED AS A RESULT OF ACTIVITIES CONDUCTED UNDER THIS PLAN. SUCH NOTIFICATION SHALL INCLUDE THE NATURE OF THE COMPLAINT, NUMBER OF COMPLAINANTS AND THE ACTION TAKEN BY THE PLAN HOLDER TO MITIGATE THE SOURCE OF THE COMPLAINT.

7. DURING EACH STEP OF THE PROCESS UPTO AND INCLUDING THE REMOVAL AND DISPOSAL PROCESS, ALL PRECAUTIONS AND MEASURES SHALL BE TAKEN TO MINIMIZE THE RELEASE OF VOC, ODOR AND DUST. THIS INCLUDES BUT IS NOT LIMITED TO: THE USE OF ADDITIONAL PLASTIC SHEETING ON STOCKPILES, USE OF SUPPRESSANTS ON EXPOSED SOIL SURFACES & WORK AREAS AND MAINTAINING PAVED PUBLIC STREETS FREE OF SOIL DEPOSITS.

SECTION II – PRIOR TO EXCAVATION

8. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OF UNDERGROUND TANKS OR TRANSFER PIPING WHICH HAVE STORED OR TRANSFERRED VOLATILE ORGANIC COMPOUNDS (VOC), THE EXECUTIVE OFFICER OR DESIGNEE SHALL BE NOTIFIED BY TELEPHONE OF ALL INFORMATION ITEMS LISTED IN RULE 1166(c)(1)(B), THE NAME OF THE COMPANY PERFORMING THE EXCAVATION, AND THE APPLICATION NUMBER LISTED ON THIS MITIGATION PLAN. THE NOTIFICATION SHALL BE MADE BY CALLING (909) 396-3886, DURING NORMAL BUSINESS HOURS. AT THE TIME OF THE NOTIFICATION, A REFERENCE NUMBER SHALL BE OBTAINED FROM THE AQMD AND RETAINED AS PROOF OF COMPLIANCE WITH THIS REQUIREMENT.

REFERENCE NO:_____ NOTIFICATION DATE:_____

9. COMPLETE VERIFICATION INFORMATION IN CONDITION NO. 29 AND OBTAIN REQUIRED SIGNATURES, PRIOR TO COMMENCING EXCAVATION.

SECTION III – EXCAVATION ACTIVITIES

10. DURING THE EXCAVATION PROCESS, AN ORGANIC VAPOR ANALYZER (OVA) SHALL BE ON SITE AT ALL TIMES. THE OVA SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES, AND SHALL BE CALIBRATED BY THE MANUFACTURER AT LEAST ONCE EVERY SIX MONTHS. THE CALIBRATION OF THE OVA SHALL BE VERIFIED USING CERTIFIED CALIBRATION GAS AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER. IF A CALIBRATION GAS OTHER THAN HEXANE IS USED, EACH MEASURED READING SHALL BE CORRELATED TO AND EXPRESSED AS HEXANE, USING EQUIVALENCY FACTORS PROVIDED BY THE MANUFACTURER.

BOE-C6-0211142

11. ALL MONITORING SHALL BE CONDUCTED AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE SOIL SURFACE USING AN OVA DESCRIBED IN CONDITION NO. 10 ABOVE. MONITORING SHALL BE CONDUCTED AT A MINIMUM FREQUENCY OF ONE READING FOR EVERY TWO CUBIC YARDS OF SOIL EXCAVATED, NOT TO EXCEED FIFTEEN MINUTES BETWEEN READINGS. ALL READINGS SHALL BE TAKEN NO LATER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED.

12. ALL MONITORING SHALL BE CONDUCTED BY TRAINED PERSONNEL WHO ARE PROFICIENT IN THE USE OF THE HYDROCARBON MONITOR SELECTED FOR USE AT THIS SITE.

13. WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE, SHALL BE KEPT IN A FORMAT APPROVED BY THE AQMD. THE APPROVED FORMAT IS INCLUDED ON PAGE 7 OF THIS PLAN. THE CERTIFICATION ON ALL RECORDS SHALL BE SIGNED AND DATED ON THE DAY THE MEASUREMENTS ARE OBSERVED.

14. UPON DETECTION OF VOC CONTAMINATED SOIL (READINGS 50 PPM OR GREATER), THE EXECUTIVE OFFICER OR DESIGNEE SHALL BE NOTIFIED WITHIN 24 HOURS OF THE FIRST DETECTION OF VOC CONTAMINATION. THE NOTIFICATION SHALL BE MADE BY CALLING (909) 396-3886. AT THE TIME OF THE NOTIFICATION, A REFERENCE NUMBER SHALL BE OBTAINED FROM THE AQMD AND RETAINED AS PROOF OF COMPLIANCE WITH THIS REQUIREMENT.

    REFERENCE NO: 130675 NOTIFICATION DATE: _____

15. ALL VOC-CONTAMINATED SOIL SHALL BE STOCKPILED SEPARATELY FROM NON-VOC-CONTAMINATED SOIL.

16. A STOCKPILE SHALL NOT CONTAIN MORE THAN 400 CUBIC YARDS OF SOIL.

17. IF THE OVA MEASUREMENT IS GREATER THAN 50 PPMV BUT LESS THAN 1000 PPMV, THE AFFECTED WORK AREA AND LOAD OF SOIL SHALL BE SPRAYED WITH WATER AND/OR APPROVED VAPOR SUPPRESSANT.

18. IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPMV,

    A) THE AFFECTED SOIL AND WORKING AREA SHALL BE SPRAYED WITH WATER OR AN APPROVED VAPOR SUPPRESSANT, AND EITHER:

    B) IMMEDIATELY PLACED IN AQMD APPROVED SEALED CONTAINERS, OR,

    C) DIRECTLY LOADED IN TRUCKS, MOISTENED WITH ADDITIONAL WATER, COVERED, AND TRANSPORTED IMMEDIATELY OFF SITE, OR,

    D) OTHER ALTERNATIVE STORAGE METHODS WITH PRIOR WRITTEN APPROVAL FROM THE AQMD.

19. DURING EXCAVATION, THE ONLY EXPOSED VOC CONTAMINATED SOIL SHALL BE RESTRICTED TO THE IMMEDIATE WORKING AREA OF THE STOCKPILE ONLY. ALL OTHER PORTIONS OF THE STOCKPILE SHALL BE COVERED WITH PLASTIC SHEETING, WITH SEAMS WHICH OVERLAP A MINIMUM OF TWELVE INCHES AND ARE SECURES WITH DUCT TAPE. ANY EXPOSED VOC-CONTAMINATED SOIL SURFACES (WORK FACE) SHALL BE KEPT MOIST WITH WATER OR OTHER APPROVED SUPPRESSANTS AT ALL TIMES, AND SHALL BE RECOVERED DURING PERIODS OF INACTIVITY LONGER THAN ONE (1) HOUR. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COMPLETELY COVERED AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

20. ONCE COVERED WITH PLASTIC SHEETING, STOCKPILES SHALL REMAIN UNDISTURBED UNTIL BACKFILLED OR REMOVED FROM SITE.

21. DAILY INSPECTIONS SHALL BE CONDUCTED OF ALL COVERED VOC-CONTAMINATED STOCKPILES TO ENSURE THE INTEGRITY OF THE PLASTIC COVER. SUCH INSPECTIONS SHALL INCLUDE A VISUAL INSPECTION OF ALL SEAMS AND PLASTIC COVER SURFACES. ANY HOLES, TEARS OR ANY OTHER POTENTIAL SOURCES OF FUGITIVE VOC EMISSIONS SHALL BE REPAIRED IMMEDIATELY. DAILY RECORDS SHALL BE MAINTAINED TO ENSURE COMPLIANCE WITH THIS CONDITION.

22. VOC-CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE. THIS INCLUDES ANY UNNECESSARY MOVEMENT OR AGITATION OF SOIL THAT MAY CAUSE THE UNCONTROLLED EVAPORATION OF VOCS INTO THE ATMOSPHERE, INCLUDING THE RESHAPING OR RELOCATING OF STOCKPILES.

23. WITHIN THIRTY (30) DAYS OF EXCAVATION, THE OWNER OR OPERATOR SHALL GENERATE A WRITTEN REPORT WHICH INCLUDES:

    A) THE METHOD SELECTED TO TREAT THE VOC-CONTAMINATED SOIL, QUANITY OF SOIL BACKFILLED OR REMOVED FROM SITE, STATUS OF EXCAVATION PIT, AND ANY VOC CONTAMINATED SOIL REMAINING ON SITE.

    B) A BRIEF SUMMARY INDICATING IF ADDITION CLEAN UP EFFORTS ARE NECESSARY, THE ADDITIONAL QUANITY OF VOC CONTAMINATED SOILS TO BE EXCAVATED AND THE PROJECTED SCHEDULE OF THE EXCAVATION.

24. ALL VOC-CONTAMINATED SOIL SHALL BE BACKFILLED, REMOVED FROM THE SITE, OR TREATED USING ON SITE PROCESSES APPROVED BY THE AQMD WITHIN THIRTY (30) DAYS OF ITS EXCAVATION. WHERE ON SITE TREATMENT IS USED, SUCH PROCESSES SHALL BE IN PLACE ON THE SITE AND OPERATING PRIOR TO THE DATE SPECIFIED IN THIS CONDITION.

25. ALL VOC-CONTAMINATED SOIL REMOVED FROM THE SITE SHALL BE TRANSPORTED TO AN APPROVED TREATMENT/DISPOSAL FACILITY. IF THE RECEIVING FACILITY IS LOCATED WITHIN THE AQMD'S JURISDICTION, IT SHALL BE THE RESPONSIBILITY OF THE PLAN HOLDER TO ENSURE THAT THE RECEIVING FACILITY POSSESSES THE REQUIRED AQMD PERMITS AND PLANS.

26. RECORDS OF TREATMENT/DISPOSAL SHALL BE MAINTAINED FOR ALL VOC-CONTAMINATED SOIL REMOVED FROM THIS SITE. SUCH RECORDS SHALL BE CLEARLY LABELED "SCAQMD RULE 1166 - VOC CONTAMINATED SOIL" AND SHALL INCLUDE THE IDENTIFICATION AND THE LOCATION OF: THE GENERATOR, THE TRANSPORTER AND THE RECEIVING FACILITY. IN ADDITION, SUCH RECORDS SHALL BE SIGNED AND DATED BY EACH OF THE ABOVE PARTIES INDICATING RECEIPT OR RELINQUISHMENT OF THE VOC-CONTAMINATED SOIL AT THE TIME CUSTODY IS TRANSFERRED.

27. RECORDS OF DISPOSAL OR TREATMENT OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

28. WITHIN THIRTY (30) DAYS OF INITIAL DETECTION OF VOC-CONTAMINATION, THE WRITTEN RECORDS UNDER CONDITIONS NO. 13, 21, 23, AND 26 SHALL BE SUBMITTED TO THE AQMD AT THE FOLLOWING ADDRESS.

    SOUTH COAST AIR QUALITY MGMT DISTRICT
    STATIONARY SOURCE COMPLIANCE DIVISION.
    RULE 1166 COMPLIANCE SECTION
    21865 E. COPLEY DR.
    DIAMOND BAR, CA. 91765-4182

BOE-C6-0211144

29. THIS PLAN IS NOT VALID UNTIL ALL PARTIES HAVE REVIEWED AND SIGNED THE VERIFICATION STATEMENT BELOW.

Site Name	Type of Business	
BOEING REALTY CORP	REAL ESTATE	
Address: 19503 S. NORMANDIE AVE	City: TORRANCE	Zip: 90502
Responsible Party (Owner/Operator): John Marasco		Phone: 562 6273078
Address: 4060 LAKEWOOD	City: LONG BEACH	Zip:

I CERTIFY THAT I HAVE REVIEWED AND UNDERSTAND THE CONDITIONS CONTAINED WITHIN THIS PLAN. IN SIGNING BELOW, I ACKNOWLEDGE THAT UNDER THE PROVISIONS OF RULE 1166, I CAN BE HELD RESPONSIBILE FOR THE REQUIREMENTS SET FORTH IN THIS PLAN.

Responsible Party	Responsible Party Signature	Date Signed
John MARASCO	John Marasco	2-2-00
General Contractor: JEFF GOODMAN	General Contractor Signature: Jeff Goodman	Date Signed: 2-2-00
Remediation Contractor	Remediation Contractor Signature	Date Signed
Environmental Consultant: Anderson Cheng	Environmental Consultant Signature: Anderson Cheng	Date Signed: 2/2/00

DEFINITIONS

Organic Vapor Analyzer (OVA)	For the purposes of this plan, is an hydrocarbon monitor utilizing flame ionization, photo ionization or other analytical methods complying with 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS. The monitor shall be capable of being calibrated using hexane at a range of 0 parts per million by volume (PPMV) to 50 PPMV, and at a detection range of at least 30 PPMV to 1100 PPMV
Responsible Party	For the purposes of this plan, is the party financially responsible for initiating the excavation. This may include the property owner or the tank operator. This excludes contractors working for the property owner or operator, and any other party that lacks the direct authority to immediately treat all VOC contaminated soils generated at the excavation site.
VOC Contaminated Soil	Is a soil which registers a concentration of 50 PPM or greater of volatile organic compounds, when measured at a distance of no more than three inches from the surface of the excavated soil, with an organic vapor analyzer or equivalent (calibrated to hexane). If other calibration gases are used, then the measured readings are correlated to and expressed as hexane.
Volatile Organic Compound (VOC)	Any volatile compound of carbon, excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds as defined in Rule 102 – Definitions of Terms.

BOE-C6-0211145

Once issued, this plan is subject to further review by the AQMD and may be revoked if excavation activities are found in violation of plan conditions or AQMD's Rules and Regulations. Failure to comply with one or more of the conditions contained within this plan constitutes a violation of Rules 221 and 1166.

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved 1166 Contaminated Soil Mitigation Plan.

If you have any questions concerning this plan, please call Scott Caso at (909) 396-2218.

Very truly yours,

Tran Vo, P.E.
Senior A.Q. Engineer

BOE-C6-0211146

Rule 1166 Soil Monitoring Records

COID: 113837	Facility/Site Information
Ecology Control Industries, Inc. 1101 E. Spring Street Long Beach, CA, 90806	Name: BOEING REALTY CORP.
	Address: 19503 NORMANDIE AVE
Reference No(s). 130675	City: TORRANCE Zip: 90502

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: RKI	Gas: HEXANE	Name: BRIAN MARTASIN	Total Cubic Yds (This page)	~125
Model: EAGLE	Date: 2/1/00	Company: ECI	Total Cubic Yds (To date)	~125
Type:	By: BRIAN NELSON, CSP	Phone: 310-573-2124	Removed from Site (To date)	Ø

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0810	20				1130	5			
0825	5				1145	5			
0840	5				1200	10			LUNCH @ 1205
0855	5				1315	5			RESUME DRILLING @ 1300
0910	20				1330	5			
0925	10				1345	15			
0940	10				1400	10			
0955	15				1415	5			
1010	25				1430	10			
1025	15				1445	5			
~~1040~~				DRILLING DELAYED (10:40)	1500	5			
1115	40			Drilling Resumed @ 1100	1515	5			

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: Brian Martasin DATE: 2/2/00

Rule 1166 Soil Monitoring Records

COID: 113837 Ecology Control Industries, Inc. 1101 E. Spring Street Long Beach, CA, 90806	**Facility/Site Information** Name: BOEING REALTY CORP Address: 19503 S. NORMANDIE AVE
Reference No(s). 130675	City: TORRANCE, CA Zip: 90502

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: RKI	Gas: HEXANE	Name: BRIAN MARTASIN	Total Cubic Yds (This page)	
Model: EAGLE	Date 2/3/00	Company: ECI	Total Cubic Yds (To date)	
Type TCD	By JEFFVANDESCOPE/WPG	Phone: 310-533-2124	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0805	25				1105	400			Suppressed w/ water & covered
0820	5				1120	140			Suppressed w/ water & covered
0835	10				1135	140			Suppressed w/ water & covered
0850	5				1150	5			
0905	5				LUNCH				
0920	0				1315	10			
0935	10				1330	15			
0950	5				1345	140			Suppressed w/H_2O/covered
1005	20				1400	200			Suppressed w/ H_2O & covered
1020	25				1415	35			
1035	35				1430	20			
1050	45				1445	40			

End of shift

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: Brian Martasin DATE: 2/3/00

Rule 1166 Soil Monitoring Records

COID: 113837	Facility/Site Information
Ecology Control Industries, Inc. 1101 E. Spring Street Long Beach, CA, 90806	Name:
	Address:
Reference No(s).	City: Zip:

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: FOXBORO	Gas: Hexane	Name: John Gubernat	Total Cubic Yds (This page)	
Model: TVA-1000	Date: 02-04-00	Company: ECI	Total Cubic Yds (To date)	
Type: FID/PID	By: HAZCO	Phone: (310)320-2555	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0845	0			Eagle TCD Meter	1045	0.4		Time Cont.	Reading Cont.
0800	15				1100	Rain		1415	0.5
0815	10				1115	Rain		1430	0.5
0830	10				1130	Rain			
0845	5				1145	Lunch			
0900	0				1200	Lunch			
0915	5				1245	0.2			
0930	15				1300	0.3			
0945	5				1315	1.2			
1000	0.3			Foxboro FID TVA1000	1330	0.4			
1015	0.5				1345	0.3			
1030	0.3				1400	0.3			

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: [signature] DATE: 02-04-2000

Rule 1166 Soil Monitoring Records

COID: 113837	Facility/Site Information
Ecology Control Industries, Inc. 1101 E. Spring Street Long Beach, CA, 90806	Name: BOEING REALTY CORP
	Address: 19503 Normandie Ave.
Reference No(s).	City: Torrance Zip: 90502

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: FOXBORO	Gas: Hexane	Name: Brian Martin	Total Cubic Yds (This page)	
Model: TVA-1000	Date: 2-7-00	Company: ECI	Total Cubic Yds (To date)	
Type: FID/PID	By: Hayes	Phone: 310-533-2124	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0800	1.02				1115	1.01	1430	1.95	
0815	0.97				1130	0.84	1445	1.54	
0830	1.98				1145	0.92	1500	1.21	
0900	1.50				1200	1.80			
0915	1.75				1215	0.59			
0930	1.48				1230	0.69			
0945	0.85				1245	0.95			
1000	1.24				1300	1.08			
1015	0.85				1315	1.24			
1030	0.74				LUNCH				
1045	1.15				1400	0.95			
1100	1.05				1415	0.72			

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: Brian Martin DATE: 2/7/00

Rule 1166 Soil Monitoring Records

COID: 113837	Facility/Site Information
Ecology Control Industries, Inc. 1101 E. Spring Street Long Beach, CA, 90806	Name:
	Address:
Reference No(s).	City: Zip:

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: FOXBORO	Gas: HEXANE	Name: JOHN GUBERNAT	Total Cubic Yds (This page)	
Model: TVA 1000	Date: 02-08-00	Company: ECI	Total Cubic Yds (To date)	
Type: FID/PID	By: JG	Phone: (310) 320-2555	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0745	0.5				1045	0.4	Time	Reading	
0800	0.5				1100	0.4	1445	0.3	
0815	0.4				1115	0.5	1500	0.4	
0830	0.3				1130	0.6			
0845	0.4				1145	0.5			
0900	0.3				LUNCH 1200	0.3			
0915	0.3				1315	0.3			
0930	0.4				1330	0.3			
0945	0.4				1345	0.4			
1000	0.4				1400	0.5			
1015	0.4				1415	0.5			
1030	0.5				1430	0.4			

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements collected and recorded during the excavation process.

SIGNATURE: [signature] DATE: 02-08-00

Expires September 10, 2000
AIN: 344190

Rule 1166 Soil Monitoring Records

COID: 113837	Facility/Site Information
Ecology Control Industries, Inc. 1101 E. Spring Street Long Beach, CA 90806	Name: Boeing Realty Corp. Address: 19503 Normandie Ave
Reference No(s): 130675	City: Torrance CA Zip: 90502

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Foxboro	Gas: Hexane	Name: Brian Magnuson / Monica Vargas	Total Cubic Yds (This page)	~80
Model: TVA 1000	Date: 2/9/00	Company: ECI	Total Cubic Yds (To date)	
Type: FID	By: Brian Nelson	Phone: 310-533-2124	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0750	3.52				1050	1220			Placed in Bin + Covered + Sprayed
0805	86.04			covered + suppressed w/ H_2O	1105	3405			↓
0820	86.54			↓	1120	429			Covered + suppressed w/ H_2O
0835	2484	!		↓	1135	175			↓
0850	1650			Placed in bin + covered + sprayed w/ H_2O	1150	3200			Placed in Bin + Covered + Sprayed
0905	204				1205	2333			↓
0920	2250			Placed in Bin + covered + sprayed w/ H_2O	1220	1400			
0935	2120			↓	1300	FID Failure			
0950	3600				all soils assumed to have >1000 ppm VOC contain sludge.				
1005	1224			↓					
1020	875			Covered + suppressed w/ H_2O					
1035	800			↓					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: [signature] DATE: 2/9/00

INTEGRATED
ENVIRONMENTAL SERVICES, INC.

Appendix B

Laboratory Analytical Reports

Parcel B Pipeline Easement Assessment Report

Boeing Realty Corporation
Former C-6 Facility
Los Angeles, California
March 2001

PHONE (714) 751-3210 FAX (714) 751-6414

3190-A AIRPORT LOOP DRIVE COSTA MESA, CALIFORNIA 92626

AAI RFS #: 0004101

February 24, 2000

Integrated Environmental Services
22932 El Toro Road
Lake Forest, California 92630

Project Name: Boeing C-6 / Retaining Wall
Project Number: ---

Attention: Tom Danaher

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
February 9, 2000	4	Air/Canister

The sample(s) received were analyzed for total petroleum hydrocarbons as gasoline using an HP gas chromatograph equipped with a flame ionization detector (GC/FID) and volatile organics by GC/MS using EPA method TO-14.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Leon Levan
Laboratory Manager

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Integrated Environmental Services	CLIENT SAMPLE ID:	Method Blank
PROJECT #:	---	AAI RFS#	0004101
PROJECT NAME:	Boeing C-6 / Retaining Wall	AAI ID#:	Method Blank
MATRIX:	Air/Canister		
SAMPLE VOLUME:	0.25 Liter	DATE SAMPLED:	N/A
INITIAL PRESSURE:	1.00 psia	DATE RECEIVED:	N/A
FINAL PRESSURE:	1.00 psia	DATE ANALYZED:	2/22/00
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	ANALYTICAL METHOD:	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION mg/m3	PQL	ppm(v)	PQL
74-87-3	Chloromethane	ND<	0.020	ND<	0.010
74-83-9	Bromomethane	ND<	0.020	ND<	0.005
75-01-04	Vinyl Chloride	ND<	0.020	ND<	0.008
75-00-3	Chloroethane	ND<	0.020	ND<	0.008
75-69-4	Freon 11	ND<	0.020	ND<	0.004
75-35-4	1,1-Dichloroethene	ND<	0.020	ND<	0.005
76-13-1	Freon 113	ND<	0.020	ND<	0.003
75-09-2	Methylene Chloride	ND<	0.020	ND<	0.006
75-35-3	1,1-Dichloroethane	ND<	0.020	ND<	0.005
156-60-5	trans-1,2-Dichloroethene	ND<	0.020	ND<	0.005
156-59-2	cis-1,2-Dichloroethene	ND<	0.020	ND<	0.005
67-66-3	Chloroform	ND<	0.020	ND<	0.004
71-55-6	1,1,1-Trichloroethane	ND<	0.020	ND<	0.004
56-23-5	Carbon Tetrachloride	ND<	0.020	ND<	0.003
71-43-2	Benzene	ND<	0.020	ND<	0.006
107-06-2	1,2-Dichloroethane	ND<	0.020	ND<	0.005
79-01-6	Trichloroethene	ND<	0.020	ND<	0.004
78-87-5	1,2-Dichloropropane	ND<	0.020	ND<	0.004
10061-02-6	trans-1,3-Dichloropropene	ND<	0.020	ND<	0.004
108-88-3	Toluene	ND<	0.020	ND<	0.005
10061-01-5	cis-1,3-Dichloropropene	ND<	0.020	ND<	0.004
79-00-5	1,1-2-Trichloroethane	ND<	0.020	ND<	0.004
127-18-4	Tetrachloroethene	ND<	0.020	ND<	0.003
106-93-4	Ethylene Dibromide	ND<	0.020	ND<	0.003
108-90-7	Chlorobenzene	ND<	0.020	ND<	0.004
100-41-4	Ethylbenzene	ND<	0.020	ND<	0.005
1330-20-7	m,p-Xylene	ND<	0.020	ND<	0.005
95-47-6	o-Xylene	ND<	0.020	ND<	0.005
100-42-5	Styrene	ND<	0.020	ND<	0.005
79-34-5	1,1,2,2-Tetrachlorethane	ND<	0.020	ND<	0.003
108-67-8	1,3,5-Trimethyl Benzene	ND<	0.020	ND<	0.004
95-63-6	1,2,4-Trimethyl Benzene	ND<	0.020	ND<	0.004
541-73-1	1,3-Dichlorobenzene	ND<	0.020	ND<	0.003
106-46-7	1,4-Dichlorobenzene	ND<	0.020	ND<	0.003
100-44-7	Chlorotoluene	ND<	0.020	ND<	0.004
95-50-1	1,2-Dichlorobenzene	ND<	0.020	ND<	0.003
67-64-1	Acetone	ND<	0.020	ND<	0.008
78-93-3	2-Butanone	ND<	0.020	ND<	0.007
108-10-1	4-methyl-2-pentanone	ND<	0.020	ND<	0.005
591-78-6	2-Hexanone	ND<	0.020	ND<	0.005

Surrogate Recovery	% Recovery	
1,2-Dichloroethane-D4 (SS1)	87	70-130
Toluene-d8 (SS2)	107	70-130
4- Bromofluorobenzene (SS3)	104	70-130

ND- Not detected

TR - Trace

*Value outside QC limits due to matrix interfence.

Approved by: 13 Date: 2/25/00

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Integrated Environmental Services	CLIENT SAMPLE ID:	Post 16
PROJECT #:	---	AAI RFS#	0004101
PROJECT NAME:	Boeing C-6 / Retaining Wall	AAI ID#:	0004101-001
MATRIX:	Air/Canister		
SAMPLE VOLUME:	0.25 Liter	DATE SAMPLED:	2/9/00
INITIAL PRESSURE:	14.40 psia	DATE RECEIVED:	2/9/00
FINAL PRESSURE:	18.80 psia	DATE ANALYZED:	2/22/00
PRES. DILUTION :	1.31		
DILUTION FACTOR:	1	ANALYTICAL METHOD:	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION mg/m3	PQL	ppm(v)	PQL
74-87-3	Chloromethane	ND<	0.03	ND<	0.013
74-83-9	Bromomethane	ND<	0.03	ND<	0.007
75-01-04	Vinyl Chloride	ND<	0.03	ND<	0.010
75-00-3	Chloroethane	ND<	0.03	ND<	0.010
75-69-4	Freon 11	ND<	0.03	ND<	0.005
75-35-4	1,1-Dichloroethene	ND<	0.03	ND<	0.007
76-13-1	Freon 113	ND<	0.03	ND<	0.003
75-09-2	Methylene Chloride	ND<	0.03	ND<	0.008
75-35-3	1,1-Dichloroethane	ND<	0.03	ND<	0.006
156-60-5	trans-1,2-Dichloroethene	ND<	0.03	ND<	0.007
156-59-2	cis-1,2-Dichloroethene	ND<	0.03	ND<	0.007
67-66-3	Chloroform	ND<	0.03	ND<	0.005
71-55-6	1,1,1-Trichloroethane	ND<	0.03	ND<	0.005
56-23-5	Carbon Tetrachloride	ND<	0.03	ND<	0.004
71-43-2	Benzene	ND<	0.03	ND<	0.008
107-06-2	1,2-Dichloroethane	ND<	0.03	ND<	0.006
79-01-6	Trichloroethene	ND<	0.03	ND<	0.005
78-87-5	1,2-Dichloropropane	ND<	0.03	ND<	0.006
10061-02-6	trans-1,3-Dichloropropene	ND<	0.03	ND<	0.006
108-88-3	Toluene	ND<	0.03	ND<	0.007
10061-01-5	cis-1,3-Dichloropropene	ND<	0.03	ND<	0.006
79-00-5	1,1-2-Trichloroethane	ND<	0.03	ND<	0.005
127-18-4	Tetrachloroethene	ND<	0.03	ND<	0.004
106-93-4	Ethylene Dibromide	ND<	0.03	ND<	0.003
108-90-7	Chlorobenzene	ND<	0.03	ND<	0.006
100-41-4	Ethylbenzene	ND<	0.03	ND<	0.006
1330-20-7	m,p-Xylene	ND<	0.03	ND<	0.006
95-47-6	o-Xylene	ND<	0.03	ND<	0.006
100-42-5	Styrene	ND<	0.03	ND<	0.006
79-34-5	1,1,2,2-Tetrachlorethane	ND<	0.03	ND<	0.004
108-67-8	1,3,5-Trimethyl Benzene	ND<	0.03	ND<	0.005
95-63-6	1,2,4-Trimethyl Benzene	ND<	0.03	ND<	0.005
541-73-1	1,3-Dichlorobenzene	ND<	0.03	ND<	0.004
106-46-7	1,4-Dichlorobenzene	ND<	0.03	ND<	0.004
100-44-7	Chlorotoluene	ND<	0.03	ND<	0.005
95-50-1	1,2-Dichlorobenzene	ND<	0.03	ND<	0.004
67-64-1	Acetone	ND<	0.03	ND<	0.011
78-93-3	2-Butanone	ND<	0.03	ND<	0.009
108-10-1	4-methyl-2-pentanone	ND<	0.03	ND<	0.006
591-78-6	2-Hexanone	ND<	0.03	ND<	0.006

Surrogate Recovery	% Recovery	
1,2-Dichloroethane-D4 (SS1)	101	70-130
Toluene-d8 (SS2)	92	70-130
4- Bromofluorobenzene (SS3)	107	70-130

ND- Not detected

TR - Trace

*Value outside QC limits due to matrix interfence.

Approved by: 13 Date: 2/22/00

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Integrated Environmental Services	CLIENT SAMPLE ID:	Post 18
PROJECT #:	---	AAI RFS#	0004101
PROJECT NAME:	Boeing C-6 / Retaining Wall	AAI ID#:	0004101-002
MATRIX:	Air/Canister		
SAMPLE VOLUME:	0.25 Liter	DATE SAMPLED:	2/9/00
INITIAL PRESSURE:	14.30 psia	DATE RECEIVED:	2/9/00
FINAL PRESSURE:	18.70 psia	DATE ANALYZED:	2/22/00
PRES. DILUTION :	1.31		
DILUTION FACTOR:	1	ANALYTICAL METHOD:	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION mg/m3	PQL	ppm(v)	PQL
74-87-3	Chloromethane	ND<	0.03	ND<	0.013
74-83-9	Bromomethane	ND<	0.03	ND<	0.007
75-01-04	Vinyl Chloride	ND<	0.03	ND<	0.010
75-00-3	Chloroethane	ND<	0.03	ND<	0.010
75-69-4	Freon 11	ND<	0.03	ND<	0.005
75-35-4	1,1-Dichloroethene	ND<	0.03	ND<	0.007
76-13-1	Freon 113	ND<	0.03	ND<	0.003
75-09-2	Methylene Chloride	ND<	0.03	ND<	0.008
75-35-3	1,1-Dichloroethane	ND<	0.03	ND<	0.006
156-60-5	trans-1,2-Dichloroethene	ND<	0.03	ND<	0.007
156-59-2	cis-1,2-Dichloroethene	ND<	0.03	ND<	0.007
67-66-3	Chloroform	ND<	0.03	ND<	0.005
71-55-6	1,1,1-Trichloroethane	ND<	0.03	ND<	0.005
56-23-5	Carbon Tetrachloride	ND<	0.03	ND<	0.004
71-43-2	Benzene	ND<	0.03	ND<	0.008
107-06-2	1,2-Dichloroethane	ND<	0.03	ND<	0.006
79-01-6	Trichloroethene	ND<	0.03	ND<	0.005
78-87-5	1,2-Dichloropropane	ND<	0.03	ND<	0.006
10061-02-6	trans-1,3-Dichloropropene	ND<	0.03	ND<	0.006
108-88-3	Toluene	ND<	0.03	ND<	0.007
10061-01-5	cis-1,3-Dichloropropene	ND<	0.03	ND<	0.006
79-00-5	1,1-2-Trichloroethane	ND<	0.03	ND<	0.005
127-18-4	Tetrachloroethene	ND<	0.03	ND<	0.004
106-93-4	Ethylene Dibromide	ND<	0.03	ND<	0.003
108-90-7	Chlorobenzene	ND<	0.03	ND<	0.006
100-41-4	Ethylbenzene	ND<	0.03	ND<	0.006
1330-20-7	m,p-Xylene	ND<	0.03	ND<	0.006
95-47-6	o-Xylene	ND<	0.03	ND<	0.006
100-42-5	Styrene	ND<	0.03	ND<	0.006
79-34-5	1,1,2,2-Tetrachlorethane	ND<	0.03	ND<	0.004
108-67-8	1,3,5-Trimethyl Benzene	ND<	0.03	ND<	0.005
95-63-6	1,2,4-Trimethyl Benzene	ND<	0.03	ND<	0.005
541-73-1	1,3-Dichlorobenzene	ND<	0.03	ND<	0.004
106-46-7	1,4-Dichlorobenzene	ND<	0.03	ND<	0.004
100-44-7	Chlorotoluene	ND<	0.03	ND<	0.005
95-50-1	1,2-Dichlorobenzene	ND<	0.03	ND<	0.004
67-64-1	Acetone	ND<	0.03	ND<	0.011
78-93-3	2-Butanone	ND<	0.03	ND<	0.009
108-10-1	4-methyl-2-pentanone	ND<	0.03	ND<	0.006
591-78-6	2-Hexanone	ND<	0.03	ND<	0.006

Surrogate Recovery	% Recovery	
1,2-Dichloroethane-D4 (SS1)	94	70-130
Toluene-d8 (SS2)	88	70-130
4- Bromofluorobenzene (SS3)	80	70-130

ND- Not detected

TR - Trace

*Value outside QC limits due to matrix interfence.

Approved by: L3 Date: 2/22/00

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Integrated Environmental Services	CLIENT SAMPLE ID:	Post 21
PROJECT #:	---	AAI RFS#	0004101
PROJECT NAME:	Boeing C-6 / Retaining Wall	AAI ID#:	0004101-003
MATRIX:	Air/Canister		
SAMPLE VOLUME:	0.25 Liter	DATE SAMPLED:	2/9/00
INITIAL PRESSURE:	14.20 psia	DATE RECEIVED:	2/9/00
FINAL PRESSURE:	19.00 psia	DATE ANALYZED:	2/22/00
PRES. DILUTION :	1.34		
DILUTION FACTOR:	1	ANALYTICAL METHOD:	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION mg/m3	PQL	ppm(v)	PQL
74-87-3	Chloromethane	ND<	0.03	ND<	0.013
74-83-9	Bromomethane	ND<	0.03	ND<	0.007
75-01-04	Vinyl Chloride	ND<	0.03	ND<	0.010
75-00-3	Chloroethane	ND<	0.03	ND<	0.010
75-69-4	Freon 11	ND<	0.03	ND<	0.005
75-35-4	1,1-Dichloroethene	ND<	0.03	ND<	0.007
76-13-1	Freon 113	ND<	0.03	ND<	0.003
75-09-2	Methylene Chloride	ND<	0.03	ND<	0.008
75-35-3	1,1-Dichloroethane	ND<	0.03	ND<	0.007
156-60-5	trans-1,2-Dichloroethene	ND<	0.03	ND<	0.007
156-59-2	cis-1,2-Dichloroethene	ND<	0.03	ND<	0.007
67-66-3	Chloroform	ND<	0.03	ND<	0.005
71-55-6	1,1,1-Trichloroethane	ND<	0.03	ND<	0.005
56-23-5	Carbon Tetrachloride	ND<	0.03	ND<	0.004
71-43-2	Benzene	ND<	0.03	ND<	0.008
107-06-2	1,2-Dichloroethane	ND<	0.03	ND<	0.007
79-01-6	Trichloroethene	ND<	0.03	ND<	0.005
78-87-5	1,2-Dichloropropane	ND<	0.03	ND<	0.006
10061-02-6	trans-1,3-Dichloropropene	ND<	0.03	ND<	0.006
108-88-3	Toluene	ND<	0.03	ND<	0.007
10061-01-5	cis-1,3-Dichloropropene	ND<	0.03	ND<	0.006
79-00-5	1,1-2-Trichloroethane	ND<	0.03	ND<	0.005
127-18-4	Tetrachloroethene	ND<	0.03	ND<	0.004
106-93-4	Ethylene Dibromide	ND<	0.03	ND<	0.003
108-90-7	Chlorobenzene	ND<	0.03	ND<	0.006
100-41-4	Ethylbenzene	ND<	0.03	ND<	0.006
1330-20-7	m,p-Xylene	ND<	0.03	ND<	0.006
95-47-6	o-Xylene	ND<	0.03	ND<	0.006
100-42-5	Styrene	ND<	0.03	ND<	0.006
79-34-5	1,1,2,2-Tetrachlorethane	ND<	0.03	ND<	0.004
108-67-8	1,3,5-Trimethyl Benzene	ND<	0.03	ND<	0.005
95-63-6	1,2,4-Trimethyl Benzene	ND<	0.03	ND<	0.005
541-73-1	1,3-Dichlorobenzene	ND<	0.03	ND<	0.004
106-46-7	1,4-Dichlorobenzene	ND<	0.03	ND<	0.004
100-44-7	Chlorotoluene	ND<	0.03	ND<	0.005
95-50-1	1,2-Dichlorobenzene	ND<	0.03	ND<	0.004
67-64-1	Acetone	ND<	0.03	ND<	0.011
78-93-3	2-Butanone	ND<	0.03	ND<	0.009
108-10-1	4-methyl-2-pentanone	ND<	0.03	ND<	0.007
591-78-6	2-Hexanone	ND<	0.03	ND<	0.007

Surrogate Recovery	% Recovery	
1,2-Dichloroethane-D4 (SS1)	111	70-130
Toluene-d8 (SS2)	92	70-130
4- Bromofluorobenzene (SS3)	106	70-130

ND- Not detected

TR - Trace

*Value outside QC limits due to matrix interfence.

Approved by: _____ Date: 2/22/00

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Integrated Environmental Services	CLIENT SAMPLE ID:	Post 30
PROJECT #:	---	AAI RFS#	0004101
PROJECT NAME:	Boeing C-6 / Retaining Wall	AAI ID#:	0004101-004
MATRIX:	Air/Canister		
SAMPLE VOLUME:	0.25 Liter	DATE SAMPLED:	2/9/00
INITIAL PRESSURE:	14.30 psia	DATE RECEIVED:	2/9/00
FINAL PRESSURE:	19.30 psia	DATE ANALYZED:	2/22/00
PRES. DILUTION :	1.35		
DILUTION FACTOR:	1	ANALYTICAL METHOD:	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION mg/m3	PQL	ppm(v)	PQL
74-87-3	Chloromethane	ND<	0.03	ND<	0.013
74-83-9	Bromomethane	ND<	0.03	ND<	0.007
75-01-04	Vinyl Chloride	ND<	0.03	ND<	0.011
75-00-3	Chloroethane	ND<	0.03	ND<	0.010
75-69-4	Freon 11	ND<	0.03	ND<	0.005
75-35-4	1,1-Dichloroethene	ND<	0.03	ND<	0.007
76-13-1	Freon 113	ND<	0.03	ND<	0.004
75-09-2	Methylene Chloride	ND<	0.03	ND<	0.008
75-35-3	1,1-Dichloroethane	ND<	0.03	ND<	0.007
156-60-5	trans-1,2-Dichloroethene	ND<	0.03	ND<	0.007
156-59-2	cis-1,2-Dichloroethene	ND<	0.03	ND<	0.007
67-66-3	Chloroform	ND<	0.03	ND<	0.006
71-55-6	1,1,1-Trichloroethane	ND<	0.03	ND<	0.005
56-23-5	Carbon Tetrachloride	ND<	0.03	ND<	0.004
71-43-2	Benzene	ND<	0.03	ND<	0.008
107-06-2	1,2-Dichloroethane	ND<	0.03	ND<	0.007
79-01-6	Trichloroethene	ND<	0.03	ND<	0.005
78-87-5	1,2-Dichloropropane	ND<	0.03	ND<	0.006
10061-02-6	trans-1,3-Dichloropropene	ND<	0.03	ND<	0.006
108-88-3	Toluene	ND<	0.03	ND<	0.007
10061-01-5	cis-1,3-Dichloropropene	ND<	0.03	ND<	0.006
79-00-5	1,1-2-Trichloroethane	ND<	0.03	ND<	0.005
127-18-4	Tetrachloroethene	ND<	0.03	ND<	0.004
106-93-4	Ethylene Dibromide	ND<	0.03	ND<	0.004
108-90-7	Chlorobenzene	ND<	0.03	ND<	0.006
100-41-4	Ethylbenzene	ND<	0.03	ND<	0.006
1330-20-7	m,p-Xylene	ND<	0.03	ND<	0.006
95-47-6	o-Xylene	ND<	0.03	ND<	0.006
100-42-5	Styrene	ND<	0.03	ND<	0.006
79-34-5	1,1,2,2-Tetrachlorethane	ND<	0.03	ND<	0.004
108-67-8	1,3,5-Trimethyl Benzene	ND<	0.03	ND<	0.005
95-63-6	1,2,4-Trimethyl Benzene	ND<	0.03	ND<	0.005
541-73-1	1,3-Dichlorobenzene	ND<	0.03	ND<	0.004
106-46-7	1,4-Dichlorobenzene	ND<	0.03	ND<	0.004
100-44-7	Chlorotoluene	ND<	0.03	ND<	0.005
95-50-1	1,2-Dichlorobenzene	ND<	0.03	ND<	0.004
67-64-1	Acetone	ND<	0.03	ND<	0.011
78-93-3	2-Butanone	ND<	0.03	ND<	0.009
108-10-1	4-methyl-2-pentanone	ND<	0.03	ND<	0.007
591-78-6	2-Hexanone	ND<	0.03	ND<	0.007

Surrogate Recovery	% Recovery	
1,2-Dichloroethane-D4 (SS1)	86	70-130
Toluene-d8 (SS2)	91	70-130
4- Bromofluorobenzene (SS3)	115	70-130

ND- Not detected

TR - Trace

*Value outside QC limits due to matrix interfence.

Approved by: L3 Date: 2/22/00

ANALYTICAL RESULTS

AAI RFS #: 0004101

Client Name: Integrated Environmental Services
Project Name: Boeing C-6 / Retaining Wall
Project #: ---
Matrix: Air/Canister

Date(s) Sampled: 2/9/00
Date(s) Analyzed: 2/15/00
Analytical Method: CARB/EPA
Chemist: AS

	Units	Post 16 0004101 -001	Post 18 0004101 -002	Post 21 0004101 -003	Post 30 0004101 -004	Method Blank
EPA 8015mod						
TPH as gasoline	(ppm(v))	ND<10	ND<10	ND<10	ND<10	ND<10

Approved by: C3 Date: 2/22/00

QUALITY CONTROL

AAI RFS #: 0004101

Client Name: Integrated Environmental Services
Project Name: Boeing C-6 / Retaining Wall
Project #: ---
Matrix: Air/Canister

Date(s) Sampled: 2/9/00
Date(s) Analyzed: 2/15/00
Analytical Method: CARB/EPA
Chemist: AS

	Sample Result 0004101-004 (ppm(v))	Duplicate Result 0004101-004 (ppm(v))	RPD (%)	Quality Control Limits (%)
EPA 8015mod				
TPH as gasoline	ND<10	ND<10	---	30

Approved by: LS Date: 2/24/00

Airv ..., 3-10 ... CA
one (714) 751-32 FAX (714) 751-6414

Chain of Custody

DATE 2/1/00 PAGE 1 OF 1

PROJECT MANAGER: Tom Donohoe
COMPANY: Integrated Environmental Services
ADDRESS: 22932 El Toro Road
Lake Forest, CA 92630
PHONE # (949) 609-3290 FAX # (949) 609-3299
SEND TO:
COMPANY:
ADDRESS:

Jack B. Russo (949) 609-3290
SAMPLERS: (Signature) PHONE NUMBER ext 119

Amended Quantity and Preservative (Provide triple volume on QC Samples)

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Air Toxics	Volatile Cmpds (EPA TO14) 4L	Hydrocarbon Speciations 1L	Fixed Gases (CH_4, O_2, CO_2, CO) 1L	TPH/BTXE 1L	TNMOC (SCAQMD 25.2) 1L	Metals (CARB 436)	Soil & Water Toxics	Petroleum Hyrdocarbons (418.1)	Oil and Grease (413.2) 1L (H_2SO_4)/100g	Gasoline (MOD 8015/DOHS) 4 oz (HCL)/50g	Diesel (MOD 8015/DOHS) 4 oz (HCL)/50g	Gasoline /BTXE (MOD 8015/8020) 4 oz (HCL)/50g	(MOD 8015) 4 oz (HCL)/50g	BTXE (8020) 2X40ml (HCL)/50g	Chlorinated Hydrocarbons (8010) 2X40ml (HCL)/50g	Aromatic Hydrocarbons (8020) 2X40ml (HCL)/50g	Organic Lead (Pb) 500ml/50g	Volatile Cmpds GC/MS (8240/8260) 2X40ml (HCL)/100g	Semi-Volatile Cmpds GC/MS (8270) 1L/100g	Pesticides/PCB (8080) 1L/50g	Polynuclear Aromatic (8310) 1L/100g	CCR Metals 500ml/100g	Priority Pollutant Metals 500ml/100g				Number of Containers
Post 16	2/1/00	07:50	Air	-001														X					X									
Post 18		09:55		-002														X					X									
Post 21		13:08		-003														X					X									
Post 30		14:15		-004														X					X									

Jack B. Russo

PROJECT INFORMATION	SAMPLE RECEIPT	
PROJECT NUMBER:	TOTAL NUMBER OF CONTAINERS	4
PROJECT NAME: Boeing C-6 / Retaining Wall	CHAIN OF CUSTODY SEALS Y/N/NA	NA
PURCHASE ORDER NUMBER:	INTACT? Y/N/NA	Y
SHIPPED VIA:	RECEIVED GOOD COND./COLD	Y
TAT: ☐ 24HR ☐ 48HR ☒ 1WK ☐ 2WKS	AAI RFS #: 0004101	
Comments:		

SAMPLE DISPOSAL INSTRUCTIONS

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Jack B. Russo Time: 15:40	Signature: Time:	Signature: Time:
Printed Name: Jack B. Russo Date: 2/1/00	Printed Name: Date:	Printed Name: Date:
Company: Integrated Environmental Services	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Shalu Nor Time: 15:40	Signature: Time:	Signature: Time:
Printed Name: SHAHID NOORANI Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Apollo Analytics, Inc.

DISTRIBUTION: White, Canary - APOLLO ANALYTICS, INC • PINK - ORIGINATOR

BOE-C6-0211162

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

February 7, 2000

Tom Danaher, Project Manager
Integrated Environmental
22932 El Toro Road
Lake Forest, CA 92630

Dear Mr. Danaher:

Included are the results from the testing of material submitted on February 4, 2000 from your Retaining Wall project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

James E. Bruya, Ph.D.
Chemist

Enclosures
NAA0207R.DOC

Date of Report: 02/07/00
Date Received: 02/04/00
Project: Retaining Wall
Date Extracted: 02/04/00
Date Analyzed: 02/04/00

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLE FOR FORENSIC EVALUATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID) AND ELECTRON CAPTURE DETECTOR (ECD)

Sample ID	GC Characterization
FF-1	The GC trace using the flame ionization detector (FID) showed the presence of low and medium boiling compounds. The patterns displayed by these peaks are indicative of a low boiling hydrocarbon product such as gasoline and/or naphtha and a middle distillate such as diesel fuel. The low boiling compounds appeared as a ragged pattern of peaks eluting from n-C_6 to n-C_{13} showing a maximum near n-C_{11}. The sample showed little evidence of highly volatile constituents common of gasoline, nor the BTEX compounds which are common gasoline constituents. The absence of these compounds may indicate that the product may have undergone extensive degradation, or it may indicate that the sample is an intermediate refinery product. The medium boiling compounds appeared as a regular pattern of peaks eluting from n-C_{13} to n-C_{24} showing a maximum near n-C_{16}. A dominant pattern of n-alkanes was not seen for this material. Prominant peaks present include nor-pristane, pristane and phytane. The medium boiling material appears to have undergone biological degradation due to what appears to be the loss of the n-alkanes. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.

Date of Report: 02/07/00
Date Received: 02/04/00
Project: Retaining Wall
Date Extracted: 02/04/00
Date Analyzed: 02/04/00

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLE FOR FORENSIC EVALUATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID) AND ELECTRON CAPTURE DETECTOR (ECD)

Sample ID	GC Characterization
FF-2	The GC trace using the flame ionization detector (FID) showed the presence of low and medium boiling compounds. The patterns displayed by these peaks are indicative of a low boiling hydrocarbon product such as degraded gasoline possibly mixed with another gasoline or naphtha and a middle distillate such as diesel fuel. The low boiling compounds appeared as a ragged pattern of peaks eluting from n-C_6 to n-C_{13} showing a maximum near n-C_{11}. The sample showed some evidence of the presence of highly volatile constituents common of gasoline, however their level is much less than that expected of an undegraded gasoline. This suggests the presence of a degraded gasoline mixed with a naphtha or relatively undegraded gasoline. The medium boiling compounds appeared as a regular pattern of peaks eluting from n-C_{13} to n-C_{24} showing a maximum near n-C_{16}. A dominant pattern of n-alkanes was not seen for this material. Prominant peaks present include nor-pristane, pristane and phytane. The medium boiling material appears to have undergone biological degradation due to what appears to be the loss of the n-alkanes. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.

002 2

Analysis Request and Chain of Custody Record

KJ 2/4/00 AY

Lab Job No:

Page 1 of 1

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

REQUIRED TAT: 24-hr TAT

CUSTOMER INFORMATION

COMPANY: Boeing c/o IEST
SEND REPORT TO: Tom Daschler
ADDRESS: 22932 El Toro Rd.
Lake Forest, CA
PHONE: (949) 609-3290 FAX: (949) 609-3299

PROJECT INFORMATION

PROJECT NAME: Retaining Wall
NUMBER:
LOCATION:
ADDRESS:
SAMPLED BY: Anderson Cheng

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	LAB ID	Fuel Fingerprint	weathering analysis							REMARKS/PRECAUTIONS
FF-1	1	2/3/00	1549	soil	4-oz	01	X	X							fax results
FF-2	1	↓	1600	↓	↓	02	X	X							

Total No. of Samples: 2

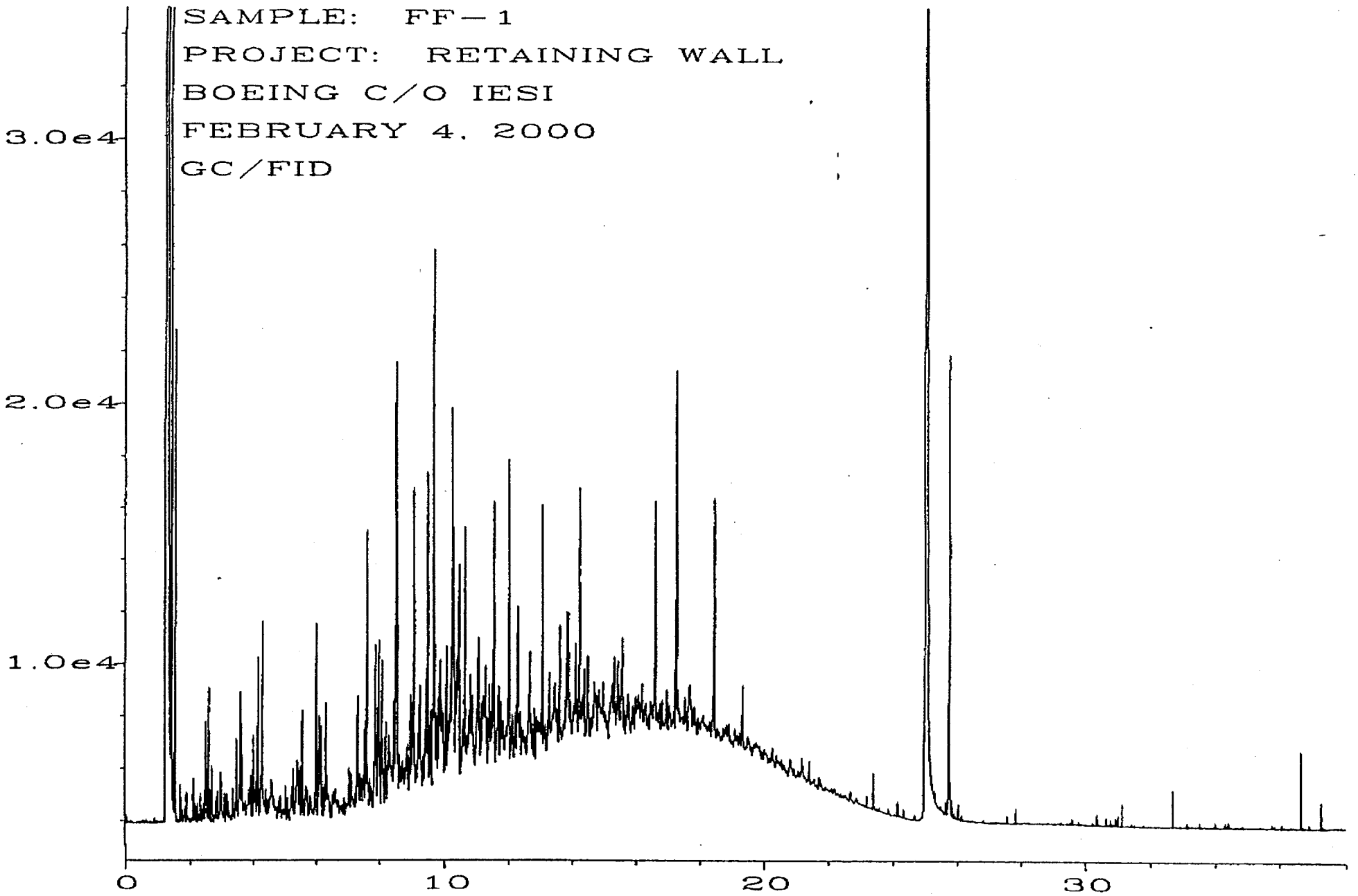
Method of Shipment: Overnight UPS or FedEx

Relinquished By:	Date/Time:	Received By:	Date/Time:
Anderson Cheng	2/3/00 15:08	Katherine Trujillo	2.4.00 10 AM
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)
intact on ice

BOE-C6-0211166



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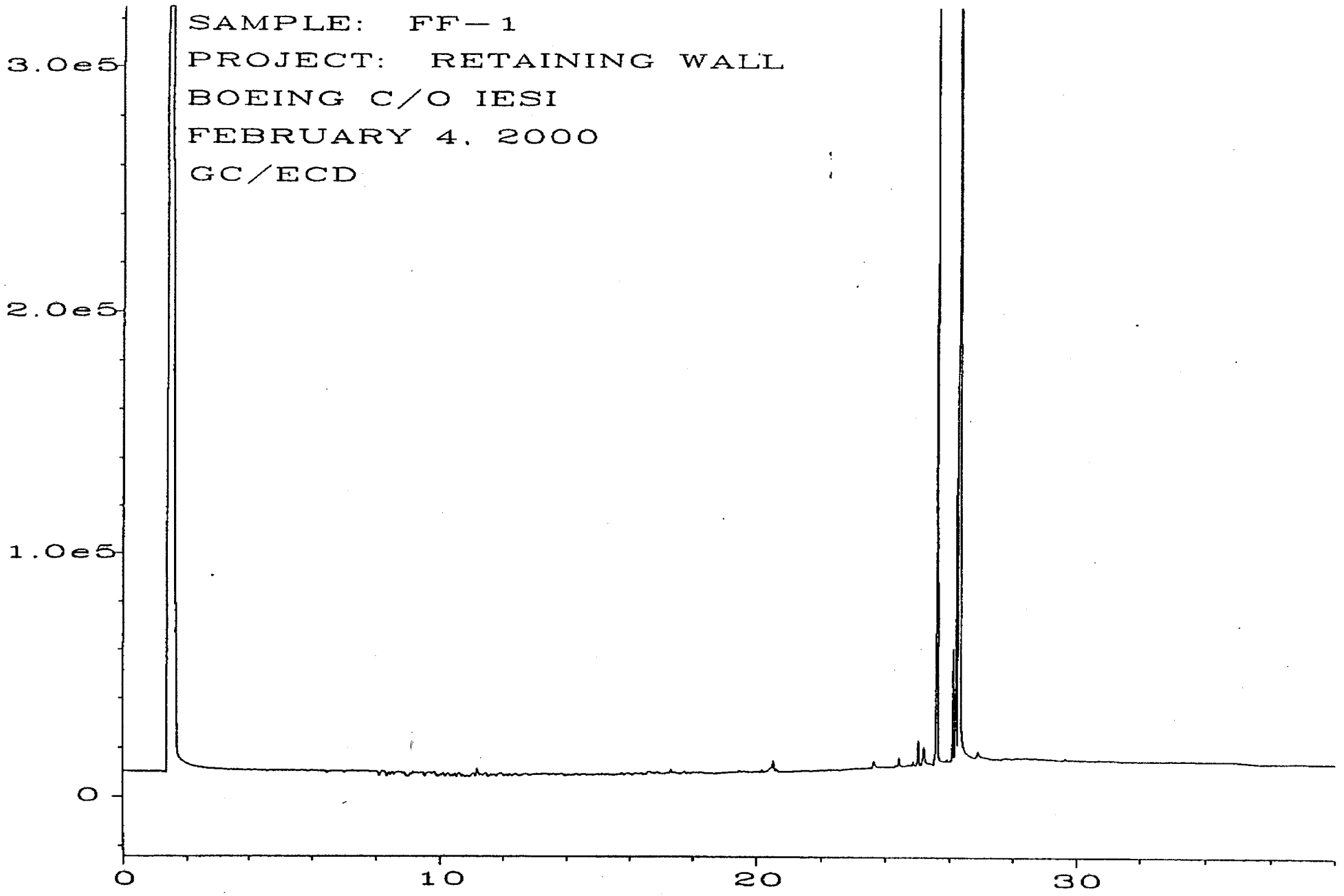
BOE-C6-0211167



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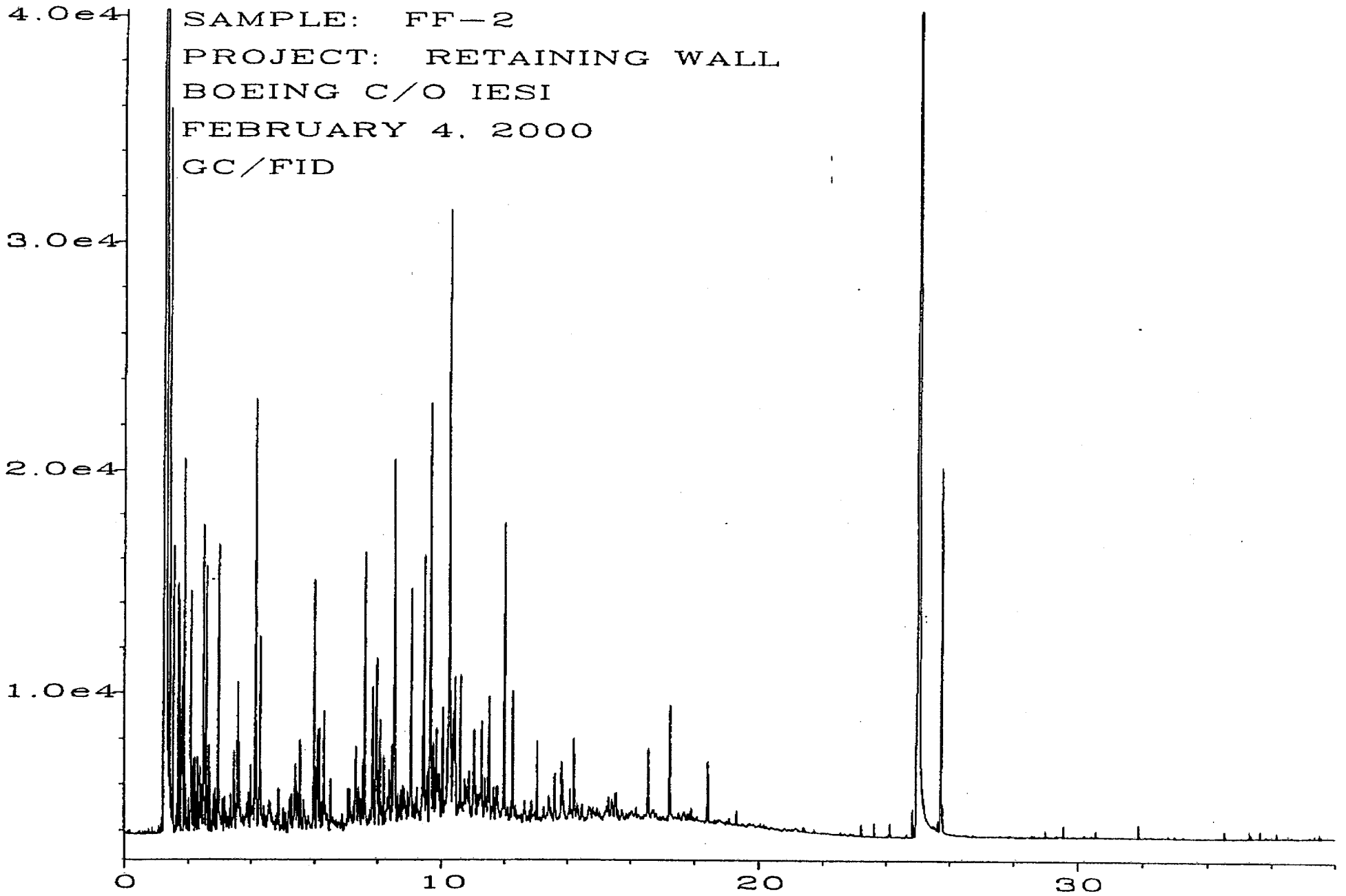
BOE-C6-0211168



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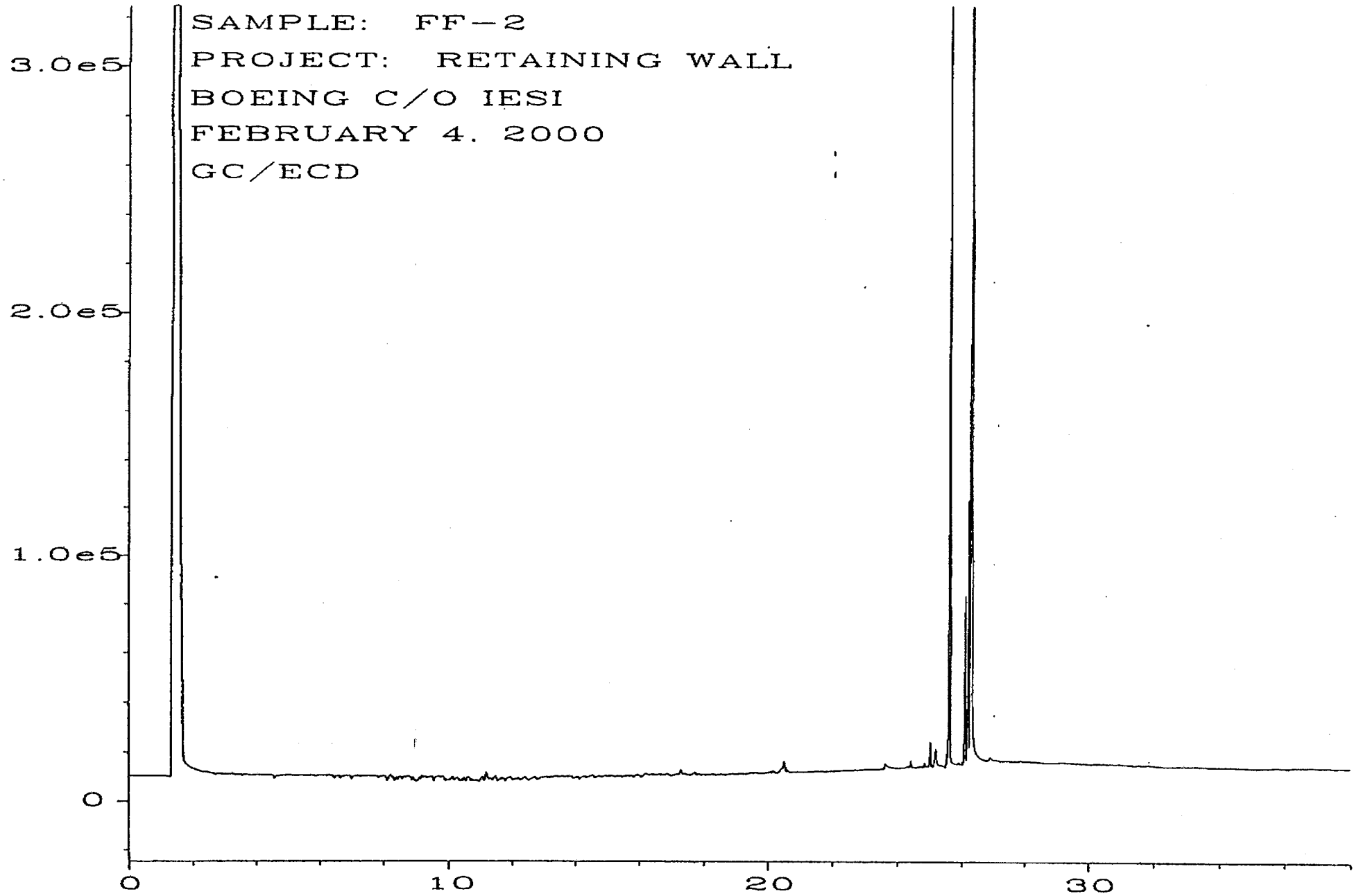
BOE-C6-0211169



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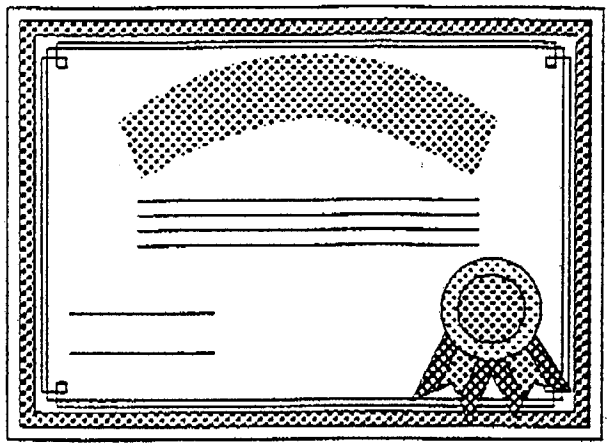
BOE-C6-0211170

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Retaining Wall

Laboratory Reference: IES 11370

Analytical Method: 8015m , 418.1

Date Sampled: 02/01/00
Date Received: 02/01/00
Date Reported: 02/03/00

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Integrated Environmental Services
Mr. Tom Danaher
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: *Retaining Wall*
Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11370

Sampled: 02/01/00
Received: 02/01/00
Analyzed: 02/03/00
Reported: 02/03/00

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020010	RW-1	14
Detection Limit:		8.0

Analyte reported as N.D. was not present above the stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

Integrated Environmental Services
Mr. Tom Danaher
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: *Retaining Wall*
Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11370

Sampled: 02/01/00
Received: 02/01/00
Analyzed: 02/03/00
Reported: 02/03/00

MOTOR OIL (EPA 8015m)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020010	RW-1	N.D.
Detection Limit:		20

Analyte reported as N.D. was not present above the stated limit of detection

int

Orange Coast Analytical, Inc.

Integrated Environmental Services
Mr. Tom Danaher
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: *Retaining Wall*
Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11370

Sampled: 02/01/00
Received: 02/01/00
Analyzed: 02/02/00
Reported: 02/03/00

VOLATILE FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015m/8020)

Laboratory Sample Number	*Client Sample Number*	*Volatile Fuel Hydrocarbons mg/kg*	*Benzene mg/kg*	*Toluene mg/kg*	*Ethyl Benzene mg/kg*	*Total Xylenes mg/kg*
00020010	RW-1	80	N.D.	N.D.	N.D.	N.D.
Detection Limit:		5.0	0.005	0.005	0.005	0.005

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analytes reported as N.D. were not present above the stated limit of detections.

INT

Orange Coast Analytical, Inc.

Integrated Environmental Services
Mr. Tom Danaher
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: Retaining Wall
Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11370

Sampled: 02/01/00
Received: 02/01/00
Analyzed: 02/02/00
Reported: 02/03/00

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020010	RW-1	N.D.
Detection Limit:		8.0

Analyte reported as N.D. was not present above the stated limit of detection

int _____

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 02/03/00
Laboratory Sample No : 00020010
Laboratory Reference No : IES 11370

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	100	100	100	100	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 02/02/00
Laboratory Sample No : 00100110
Laboratory Reference No : IES 11370

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	100	80	90	80	90	12

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

int m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Motor Oil (EPA 8015m)

Date of Analysis : 02-03-00
Laboratory Sample No : 00020010
Laboratory Reference No : IES 11370

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Motor Oil	0.0	100	107	110	107	110	3

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

int m.n.

QC DATA REPORT

Date of Analysis : 02/01/00
Laboratory Sample No : OCA 200
Laboratory Reference No : IES 11370

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
Benzene	0.0	0.050	0.051	0.052	102	104	2
Toluene	0.0	0.050	0.052	0.050	104	100	4
Ethylbenzene	0.0	0.050	0.054	0.051	108	102	6
Total Xylenes	0.0	0.150	0.180	0.170	120	113	6
Hydrocarbons	0	1000	1092	1045	120	113	4

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT

ORANGE COAST ANALYTICAL, INC.
PHONE MESSAGE

Initials: MVK Date: 2-1-00

CLIENT: IES CONTACT: Tom Donahue

PROJECT: Retaining Wall

Status: X In Progress ___Completed ___Upcoming/Future

Date Received:- 2-1-00

Samples: Action Item: Turnaround:

please add 413.1 to list of analysis

Containers Requested:
___voa vials
___glass jars
___500 ml plastic
___1 liter plastic
___1 liter glass
___trip blank
___Other_____

Method Shipment:
___cooler ___Fed-Ex ASAP
___box ___UPS
___Deliver by_____
___Will Call on_____
Include:
___Chain of Custody
___Blue Ice

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: _____
Page 1 of 1

REQUIRED TAT: 24-hr

CUSTOMER INFORMATION

COMPANY: Boeing c/o IES J.
SEND REPORT TO: Tom Danaher
ADDRESS:
PHONE: (949) 609-3290 FAX: (949) 609-3299

PROJECT INFORMATION

PROJECT NAME: Retaining Wall
NUMBER:
LOCATION:
ADDRESS:
SAMPLED BY: Anderson Chung

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	ANALYSIS/METHOD REQUEST: 8015M (modified)	ANALYSIS/METHOD REQUEST: 8020 BTEX	REMARKS/PRECAUTIONS
RW-1	1	2/1/00	1310	soil	4-oz		X	X	fax results

Total No. of Samples: 1

Method of Shipment: Delivery

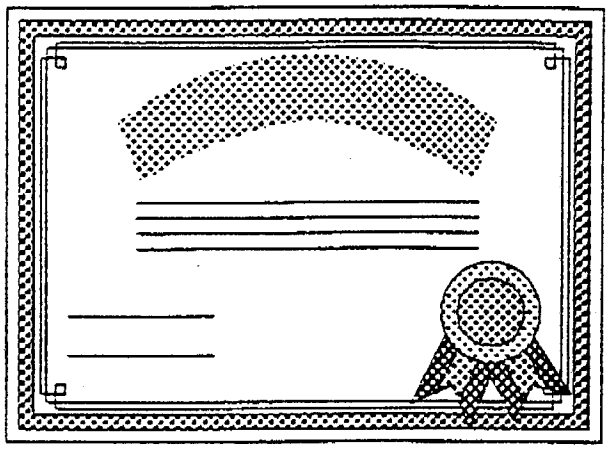
Relinquished By:	Date/Time:	Received By:	Date/Time:
Anderson Chung	2/1/00 16:18		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)

BOE-C6-0211182

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification (ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Retaining Wall

Laboratory Reference: IES 11370

Analytical Method: 8015m(G&D), CCID, 418.1, 8260, Pesticides

Date Sampled: 02/02-03/00
Date Received: 02/03/00
Date Reported: 02/04/00

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

Analysis Method: CCID 8015m

Sample Description: Soil,

Laboratory Reference #: IES 11380

Sampled: 02/02-03/00
Received: 02/03/00
Analyzed 02/03/00
Reported: 02/04/00

Client Sample #:	RW-S2-8	RW-S2-11	RW-S3-8	RW-S4	RW-S5	RW-S3-11
Lab Sample #:	00020073	00020074	00020075	00020076	00020077	00020078
Reporting Unit:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C7-9	N.D.	N.D.	11	N.D.	N.D.	1.7
C10-11	N.D.	N.D.	120	6.5	N.D.	14
C12-13	N.D.	N.D.	160	25	N.D.	24
C14-15	N.D.	N.D.	21	26	N.D.	6.4
C16-17	N.D.	N.D.	3.1	18	N.D.	2.0
C18-19	N.D.	N.D.	1.4	17	N.D.	1.8
C20-21	N.D.	N.D.	N.D.	5.8	N.D.	N.D.
C22-23	N.D.	N.D.	N.D.	2.8	N.D.	N.D.
C24-25	N.D.	N.D.	0.62	N.D.	N.D.	N.D.
C26-27	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C28-30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total	N.D.	N.D.	317	101	N.D.	50
Detection Limit	8.0	8.0	8.0	8.0	8.0	8.0

Extractable hydrocarbons are quantitated against a diesel standard. Hydrocarbons detected by this method range from C7 to C30. Analytes reported as N.D. were not present above the stated limit of detection.

INT

Orange Coast Analytical, Inc.

Integrated Environmental Services
Mr. Tom Danaher
932 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: IES 11380

Sampled:	---	02/02/00	02/02/00	02/0
Received:	---	02/03/00	02/03/00	02/0
Analyzed:	02/04/00	02/04/00	02/04/00	02/0
Reported:	02/04/00	02/04/00	02/04/00	02/0
Lab Sample I.D.	MB	00020073	00020074	0002
Client Sample I.D.	---	RW-S2-8	RW-S2-11	RW-

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<12
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<12
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<12
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<12
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<25
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<12
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<12
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<12
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<12
Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<25
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<12
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<12
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<12
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<12
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<12
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<12
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<12
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<12
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<12
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	3,7
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<25
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<12
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<12
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5	<12
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<12
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<12
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<12
Trichloroethene	79-01-6	2.5	<2.5	<2.5	<2.5	<12
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<25
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<25
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<12
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<12
Chlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<12
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<12
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<12

OLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: IES 11380

Client Project ID: Retaining Wall

Client Project #:

Sampled:	---	02/02/00	02/02/00	02/0
Received:	---	02/03/00	02/03/00	02/0
Analyzed:	02/04/00	02/04/00	02/04/00	02/0
Reported:	02/04/00	02/04/00	02/04/00	02/0
Lab Sample I.D.	MB	00020073	00020074	0002
Client Sample I.D.	---	RW-S2-8	RW-S2-11	RW-

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS*			
			µg/kg	*µg/kg*	*µg/kg*	*µg/*
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<12
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<12
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<12
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<12
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<12
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	45(
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<12
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<12
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<12
Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	180
Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<12
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	15(
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<12
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<12
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	15(
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	44(
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<12
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<12
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<12
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	140
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<12
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<25
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<12
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<12
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	310
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<12

SURROGATE RECOVERY	%RC	%RC	%RC	%F
Dibromofluoromethane	97	108	104	10
Toluene-d8	112	125	126	11
4-Bromofluorobenzene	109	110	109	11

Integrated Environmental Services
Tom Danaher
,32 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: IES 11380

Sampled:	02/03/00	02/03/00	02/03/00
Received:	02/03/00	02/03/00	02/03/00
Analyzed:	02/04/00	02/04/00	02/04/00
Reported:	02/04/00	02/04/00	02/04/00
Lab Sample I.D.	00020076	00020077	00020078
Client Sample I.D.	RW-S4	RW-S5	RW-S3-11

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS*		
			µg/kg	*µg/kg*	*µg/kg*
Benzene	71-43-2	2.5	<1250	<2.5	<1250
Bromodichloromethane	75-27-4	2.5	<1250	<2.5	<1250
Bromoform	75-25-2	2.5	<1250	<2.5	<1250
Bromomethane	74-83-9	2.5	<1250	<2.5	<1250
Carbon Disulfide	75-15-0	5.0	<2500	<5.0	<2500
Carbon tetrachloride	56-23-5	2.5	<1250	<2.5	<1250
Chlorobenzene	108-90-7	2.5	<1250	<2.5	<1250
Chlorodibromomethane	124-48-1	2.5	<1250	<2.5	<1250
›roethane	75-00-3	2.5	<1250	<2.5	<1250
›hloroethyl vinyl ether	110-75-8	5.0	<2500	<5.0	<2500
Chloroform	67-66-3	2.5	<1250	<2.5	<1250
Chloromethane	74-87-3	2.5	<1250	<2.5	<1250
1,1-Dichloroethane	75-34-3	2.5	<1250	<2.5	<1250
1,2-Dichloroethane	107-06-2	2.5	<1250	<2.5	<1250
1,1-Dichloroethene	75-35-4	2.5	<1250	<2.5	<1250
trans-1,2-Dichloroethene	156-60-5	2.5	<1250	<2.5	<1250
1,2-Dichloropropane	78-87-5	2.5	<1250	<2.5	<1250
cis-1,3-Dichloropropene	10061-01-5	2.5	<1250	<2.5	<1250
trans-1,3-Dichloropropene	10061-02-6	2.5	<1250	<2.5	<1250
Ethylbenzene	100-41-4	2.5	<1250	<2.5	16,000
Methylene chloride	75-09-2	5.0	<2500	<5.0	<2500
Styrene	100-42-5	2.5	<1250	<2.5	<1250
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<1250	<2.5	<1250
Tetrachloroethene	127-18-4	2.5	<1250	<2.5	<1250
Toluene	108-88-3	2.5	<1250	<2.5	<1250
1,1,1-Trichloroethane	71-55-6	2.5	<1250	<2.5	<1250
1,1,2-Trichloroethane	79-00-5	2.5	<1250	<2.5	<1250
Trichloroethene	79-01-6	2.5	<1250	<2.5	<1250
Trichlorofluoromethane	75-69-4	5.0	<2500	<5.0	<2500
Vinyl acetate	108-05-4	5.0	<2500	<5.0	<2500
Vinyl chloride	75-01-4	2.5	<1250	<2.5	<1250
›al Xylenes	1330-20-7	2.5	<1250	<2.5	<1250
›lorodifluoromethane	75-71-8	2.5	<1250	<2.5	<1250
cis-1,2-Dichloroethene	156-59-2	2.5	<1250	<2.5	<1250
2,2-Dichloropropane	594-20-7	2.5	<1250	<2.5	<1250

LATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: IES 11380

Client Project ID: Retaining Wall
Client Project #:

Sampled:	02/03/00	02/03/00	02/03/00
Received:	02/03/00	02/03/00	02/03/00
Analyzed:	02/04/00	02/04/00	02/04/00
Reported:	02/04/00	02/04/00	02/04/00
Lab Sample I.D.	00020076	00020077	00020078
Client Sample I.D.	RW-S4	RW-S5	RW-S3-11

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*	*µg/kg*
Bromochloromethane	74-97-5	2.5	<1250	<2.5	<1250
1,1-Dichloropropene	563-58-6	2.5	<1250	<2.5	<1250
Dibromomethane	74-95-3	2.5	<1250	<2.5	<1250
1,2-Dibromoethane	106-93-4	2.5	<1250	<2.5	<1250
1,3-Dichloropropane	142-28-9	2.5	<1250	<2.5	<1250
Isopropylbenzene	98-82-8	2.5	<1250	<2.5	3800
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<1250	<2.5	<1250
1,2,3-Trichloropropane	96-18-4	2.5	<1250	<2.5	<1250
Bromobenzene	108-86-1	2.5	<1250	<2.5	<1250
ropylbenzene	103-65-1	2.5	2500	<2.5	12000
hlorotoluene	95-49-8	2.5	<1250	<2.5	<1250
1,3,5-Trimethylbenzene	108-67-8	2.5	<1250	<2.5	<1250
4-Chlorotoluene	106-43-4	2.5	<1250	<2.5	<1250
tert-Butylbenzene	98-06-6	2.5	<1250	<2.5	<1250
1,2,4-Trimethylbenzene	95-63-6	2.5	<1250	<2.5	<1250
sec-Butylbenzene	135-98-8	2.5	<1250	<2.5	1800
4-Isopropyltoluene	99-87-6	2.5	<1250	<2.5	<1250
1,3-Dichlorobenzene	541-73-1	2.5	<1250	<2.5	<1250
1,4-Dichlorobenzene	106-46-7	2.5	<1250	<2.5	<1250
n-Butylbenzene	104-51-8	2.5	<1250	<2.5	5200
1,2-Dichlorobenzene	95-50-1	2.5	<1250	<2.5	<1250
1-2-Dibromo-3-CPA	96-12-8	5.0	<2500	<5.0	<2500
1,2,4-Trichlorobenzene	120-82-1	2.5	<1250	<2.5	<1250
Hexachlorobutadiene	87-68-3	2.5	<1250	<2.5	<1250
Naphthalene	91-20-3	2.5	<1250	<2.5	<1250
1,2,3-Trichlorobenzene	87-61-6	2.5	<1250	<2.5	<1250

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	101	103	101
Toluene-d8	116	123	114
4-Bromofluorobenzene	109	110	109

INT

Integrated Environmental Services
'r. Tom Danaher
.2932 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: IES 11380

Sampled:	---	02/03/00	02/03/00
Received:	---	02/03/00	02/03/00
Analyzed:	02/04/00	02/04/00	02/04/00
Reported:	02/04/00	02/04/00	02/04/00
Lab Sample I.D.	MB	00020076	00020077
Client Sample I.D.	mb0204	RW-S4	RW-S5

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS*		
			µg/kg	*µg/kg*	*µg/kg*
Aldrin	309-00-2	1.0	<1.0	<1.0	<1.0
alpha-BHC	319-84-6	1.0	<1.0	1.9	<1.0
beta-BHC	319-85-7	1.0	<1.0	<1.0	<1.0
delta-BHC	319-86-8	2.0	<2.0	<2.0	<2.0
gamma-BHC (Lindane)	58-89-9	1.0	<1.0	<1.0	<1.0
Chlordane	57-74-9	10	<10	<10	<10
4,4'-DDD	72-54-8	2.0	<2.0	<2.0	<2.0
4'-DDE	72-55-9	5.0	<5.0	<5.0	<5.0
,4'-DDT	50-29-3	1.0	<1.0	<1.0	<1.0
Dieldrin	60-57-1	2.0	<2.0	<2.0	<2.0
Endosulfan I	959-98-8	1.0	<1.0	<1.0	<1.0
Endosulfan II	33212-65-9	2.0	<2.0	<2.0	<2.0
Endosulfan sulfate	1031-07-8	10	<10	<10	<10
Endrin	72-20-8	2.0	<2.0	<2.0	<2.0
Endrin aldehyde	7421-93-4	2.0	<2.0	<2.0	<2.0
Heptachlor	76-44-8	1.0	<1.0	<1.0	<1.0
Heptachlor epoxide	1024-57-3	1.0	<1.0	<1.0	<1.0
Methoxychlor	72-43-5	30	<30	<30	<30
Toxaphene	8001-35-2	35	<35	<35	<35

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: *Retaining Wall*
Client Project #:

Sampled: 02/02-03/00
Received: 02/03/00
Analyzed: 02/04/00
Reported: 02/04/00

Sample Description: Soil,

Laboratory Reference #: IES 11380

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020073	RW-S2-8	N.D.
00020074	RW-S2-11	N.D.
00020075	RW-S3-8	630
00020076	RW-S4	13
00020077	RW-S5	N.D.
00020078	RW-S3-11	500

Detection Limit:	5.0

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: *Retaining Wall*
Client Project #:

Sampled: 02/02-03/00
Received: 02/03/00
Analyzed: 02/04/00
Reported: 02/04/00

Sample Description: Soil,

Laboratory Reference #: IES 11380

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020073	RW-S2-8	N.D.
00020074	RW-S2-11	N.D.
00020075	RW-S3-8	140
00020076	RW-S4	100
00020077	RW-S5	N.D.
00020078	RW-S3-11	32
Detection Limit:		8.0

Analyte reported as N.D. was not present above the stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 02/04/00
Laboratory Sample No : 00020074
Laboratory Reference No : IES 11380

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	87	88	87	88	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 02/04/00
Laboratory Sample No : 00020073
Laboratory Reference No : IES 11380

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	45	46	90	92	2
1,1-Dichloroethene	0.0	50	51	50	102	100	2
Trichloroethene	0.0	50	51	50	102	100	2
Toluene	0.0	50	52	51	104	102	2
Chlorobenzene	0.0	50	51	52	102	104	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis : 02/04/00
Laboratory Sample No : 00020077
Laboratory Reference No : IES 11380

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	50	62	58	124	116	7

Definition of Terms :-

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 02/03/00
Laboratory Sample No : 000100110
Laboratory Reference No : IES 11380

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	100	92	101	92	101	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

QC DATA REPORT

Analysis : VOLATILE FUEL HYDROCARBONS (EPA 8015m)

Date of Analysis : 02/07/00
Laboratory Sample No : 00020002
Laboratory Reference No : IES 11380

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	50	47	44	94	88	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT_____

Orange Coast Analytical, Inc.

Analysis Request and Chain of Custody Record

Lab Job No. _____
Page 1 of 1

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

REQUIRED TAT: 24-hr

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Bovey c/o TEST	PROJECT NAME: Retaining Wall
SEND REPORT TO: Tom Daniher	NUMBER:
ADDRESS:	LOCATION:
	ADDRESS:
PHONE (949) 609-3290 FAX (949) 609-3299	SAMPLED BY: Anderson Cheng

ANALYSIS/METHOD REQUEST

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	8015M Carbon Chain Specific	E.P.A. 60 VOCs	8080 - Pesticides	418.1					REMARKS/PRECAUTIONS
RW-S2-8	1	2/2/00	1313	soil	4-oz		X	X		X					fax results
RW-S2-11	↓	2/2/00	1400	↓	↓		X	X		↓					
RW-S3-8	↓	2/3/00	0950	↓	↓		X	X		↓					
RW-S4	↓	↓	1133	↓	↓		X	X	X	↓					
RW-S5	↓	↓	1157	↓	↓		X	X	X	↓					
RW-S3-11	↓	↓	1210	↓	↓		X	X		↓					

Total No. of Samples: 6

Method of Shipment:

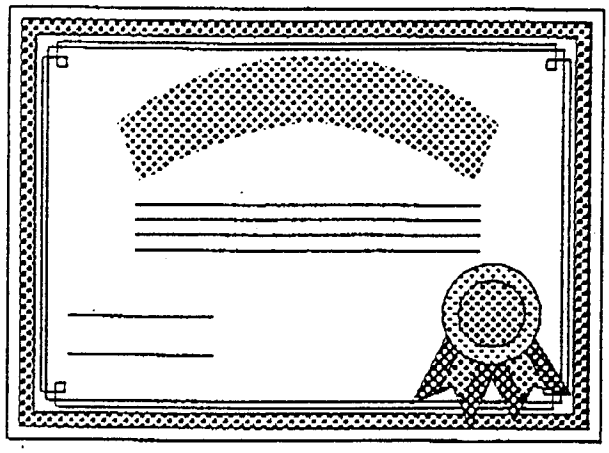
Relinquished By:	Date/Time:	Received By:	Date/Time:
Anderson Cheng	2/3/00 14:33	Jack D. Russ	2/3/00 14:33
Jack D. Russ	2/3/00 15:35		
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time: 2-3-00

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)

BOE-C6-0211198

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification (ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Retaining Wall

Laboratory Reference: IES 11383

Analytical Method: 8015m , 418.1, 8260,

Date Sampled: 02/02-03/00
Date Received: 02/03/00
Date Reported: 02/17/00

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

Sampled: 02/07/00
Received: 02/07/00
Reported: 02/17/00

Sample Description: Soil,

Laboratory Reference #: IES 11383

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	*DATE ANALYZED*	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020101	02/08/00	RW-S7-11'	N.D.
00020102	02/08/00	RW-S6-11'	N.D.
00020103	02/08/00	RW-S8-8'	N.D.
00020104	02/08/00	RW-S10-2'	N.D.
00020105	02/08/00	RW-S11-2'	N.D.
00020188	02/17/00	RW-S8-11'	N.D.
00020189	02/17/00	RW-S9-8'	84
Detection Limit:			5.0

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT

Orange Coast Analytical, Inc.

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

Analysis Method: CCID 8015m

Sampled: 02/07/00
Received: 02/07/00
Reported: 02/17/00

Sample Description: Soil

Laboratory Reference #: IES 11383

Date Analyzed #:	02/07/00	02/07/00	02/07/00	02/07/00	02/07/00	02/17/00	02/17/00
Client Sample #:	RW-S7-11'	RW-S6-11'	RW-S8-8'	RW-S10-2'	RW-S11-2'	RW-S8-11'	RW-S9-8'
Lab Sample #:	00020101	00020102	00020103	00020104	00020105	00020188	00020189
Reporting Unit:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CCID Up to & Including C-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
CCID C13-22	N.D.	N.D.	N.D.	0.15	2.9	N.D.	N.D.
CCID C23 & Higher	N.D.	N.D.	N.D.	52	104	N.D.	N.D.
Detection Limit	8.0	8.0	8.0	8.0	8.0	8.0	8.0

Analytes reported as N.D. were not present above athe stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: *Retaining Wall*
Client Project #:

Sampled: 02/07/00
Received: 02/07/00
Reported: 02/17/00

Sample Description: Soil,

Laboratory Reference #: IES 11383

MOTOR OIL (EPA 8015m)

LABORATORY SAMPLE NUMBER	*DATE ANALYZED*	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020101	02/07/00	RW-S7-11'	N.D.
00020102	02/07/00	RW-S6-11'	N.D.
00020103	02/07/00	RW-S8-8'	N.D.
00020104	02/07/00	RW-S10-2'	94
00020105	02/07/00	RW-S11-2'	200
00020188	02/17/00	RW-S8-11'	N.D.
00020189	02/17/00	RW-S9-8'	N.D.
Detection Limit:			20

Analyte reported as N.D. was not present above the stated limit of detection

int m.n.

Orange Coast Analytical, Inc.

Integrated Environmental Services
Tom Danaher
32 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: IES 11383

Sampled:	---	02/07/00	02/07/00	02/07
Received:	---	02/07/00	02/07/00	02/07
Analyzed:	02/08/00	02/08/00	02/08/00	02/08
Reported:	02/08/00	02/08/00	02/08/00	02/08
Lab Sample I.D.	MB	00020101	00020102	00020
Client Sample I.D.	---	RW-S7-11'	RW-S6-11'	RW-S

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/k
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<2.
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<2.
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<2.
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<2.
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<5.
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<2.
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<2.
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<2.
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<2.
Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<5.
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<2.
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<2.
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<2.
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<2.
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<2.
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<2.
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<2.
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<2.
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<2.
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	<2.
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<5.
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<2.
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5	<2.
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<2.
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<2.
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<2.
Trichloroethene	79-01-6	2.5	<2.5	<2.5	<2.5	<2.
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<5.
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<5.
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<2.
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<2.
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<2.
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<2.
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<2.

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: IES 11383

Client Project ID: Retaining Wall
Client Project #:

Sampled:	---	02/07/00	02/07/00	02/07/
Received:	---	02/07/00	02/07/00	02/07/
Analyzed:	02/08/00	02/08/00	02/08/00	02/08/
Reported:	02/08/00	02/08/00	02/08/00	02/08/
Lab Sample I.D.	MB	00020101	00020102	000201
Client Sample I.D.	---	RW-S7-11'	RW-S6-11'	RW-S8

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<2.5
[illegible]mobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<2.5
[illegible]opylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<2.5

SURROGATE RECOVERY	%RC	%RC	%RC	%RC
Dibromofluoromethane	111	112	116	113
Toluene-d8	112	118	117	115
4-Bromofluorobenzene	113	112	114	113

'ntegrated Environmental Services
Tom Danaher
2032 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

	Sampled:	02/07/00	02/07/00
SAMPLE DESCRIPTION (Soil)	*Received:*	02/07/00	02/07/00
	Analyzed:	02/09/00	02/09/00
Laboratory Reference #: IES 11383	*Reported:*	02/14/00	02/14/00
	Lab Sample I.D.	00020104	00020105
	Client Sample I.D.	RW-S10-2'	RW-S11-2'

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*
Benzene	71-43-2	2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5
roethane	75-00-3	2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5
l Xylenes	1330-20-7	2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5

INT

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: IES 11383		*Sampled:*	02/07/00	02/07/00
		Received:	02/07/00	02/07/00
Client Project ID: Retaining Wall		*Analyzed:*	02/09/00	02/09/00
Client Project #:		*Reported:*	02/14/00	02/14/00
		Lab Sample I.D.	00020104	00020105
		Client Sample I.D.	RW-S10-2'	RW-S11-2'

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*
Bromochloromethane	74-97-5	2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5
[illegible]omobenzene	108-86-1	2.5	<2.5	<2.5
[illegible]opylbenzene	103-65-1	2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5

SURROGATE RECOVERY	%RC	%RC
Dibromofluoromethane	101	114
Toluene-d8	123	120
4-Bromofluorobenzene	100	99

Integrated Environmental Services
Mr. Tom Danaher
22932 El Toro Road
Lake Forest, CA 92630

Client Project ID: Retaining Wall
Client Project #:

Sampled: 02/07/00
Received: 02/07/00
Analyzed: 02/08/00
Reported: 02/14/00

Sample Description: Soil,

Laboratory Reference #: IES 11383

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS mg/kg*
00020104	RW-S10-2'	120
00020105	RW-S11-2'	170
Detection Limit:	--	8.0

Analyte reported as N.D. was not present above the stated limit of detection.

INT

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : VOLATILE FUEL HYDROCARBONS (EPA 8015m)

Date of Analysis : 02/08/00
Laboratory Sample No : 00020101
Laboratory Reference No : IES 11383

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	50	52	47	104	94	10

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

QC DATA REPORT

Analysis : VOLATILE FUEL HYDROCARBONS (EPA 8015m)

Date of Analysis : 02/17/00
Laboratory Sample No : 00020188
Laboratory Reference No : IES 11383

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	50	59	57	118	114	3

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.m.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 02/07/00
Laboratory Sample No : OCA 200
Laboratory Reference No : IES 11383

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	100	88	96	88	96	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

int _____

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 02/17/00
Laboratory Sample No : 00020188
Laboratory Reference No : IES 11383

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	50	53	69	106	138	26

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
SD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

int _____

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 02/08/99
Laboratory Sample No : 00020025
Laboratory Reference No : IES 11383

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	108	103	108	103	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT_____

Orange Coast Analytical , Inc

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 02/08/00
Laboratory Sample No : A00020051
Laboratory Reference No : IES 11383

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	43	42	86	84	2
1,1-Dichloroethene	0.0	50	53	51	106	102	4
Trichloroethene	0.0	50	56	53	112	106	6
Toluene	0.0	50	54	50	108	100	8
Chlorobenzene	0.0	50	54	51	108	102	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.M.

Orange Coast Analytical, Inc.

INTEGRATED
Environmental Services, Inc.
3990 Westerly Place, Suite 210
Newport Beach, CA 92660

Phone: (949) 852-9050
Fax: (949) 852-9011

FAX TRANSMISSION COVER SHEET

DATE: February 16, 2000

TO: MARIE

FAX: (714) 832-0064

PHONE: (714) 832-0067

COMPANY: Orange Coast Analytical, Inc

FROM: Anderson Cheng AC

RE: Analysis for sample RW-S8-11

NUMBER OF PAGES (INCLUDING COVER SHEET): 1

MESSAGE:

Marie,

As per our conversation, sample RW-S8-11 was submitted to the laboratory on 2/7/00 and placed on hold. We would now like the sample to be analyzed for method 8015M with carbon chain speciation, on 24-hr turn-around time.

If you have any questions, feel free to give me a call at (949) 795-5037. Thank you.

IF YOU DO NOT RECEIVE A COMPLETE AND/OR LEGIBLE COPY OF THIS FAX
PLEASE NOTIFY US AT THE ABOVE NUMBER.

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INTEGRATED
Environmental Services, Inc.
3990 Westerly Place, Suite 210
Newport Beach, CA 92660

Phone: (949) 852-9050
Fax: (949) 852-9011

FAX TRANSMISSION COVER SHEET

DATE: February 17, 2000

TO: MARIE

FAX: (714) 832-0064

PHONE: (714) 832-0067

COMPANY: Orange Coast Analytical, Inc

FROM: Anderson Cheng

RE: Analysis for sample RW-S9-8

NUMBER OF PAGES (INCLUDING COVER SHEET): 1

MESSAGE:

Marie,

Sample RW-S9-8 was submitted to the laboratory on 2/7/00 and placed on hold. We would now like the sample to be analyzed for method 8015M (gas/ diesel/ and motor oil) with carbon chain speciation, on 24-hr turn-around time.

If you have any questions, feel free to give me a call at (949) 795-5037. Thank you.

IF YOU DO NOT RECEIVE A COMPLETE AND/OR LEGIBLE COPY OF THIS FAX PLEASE NOTIFY US AT THE ABOVE NUMBER.

CONFIDENTIALITY NOTICE

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Analysis Request and C[illegible]n of Custody Record

Lab Job No: _____
Page 1 of 1

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

REQUIRED TAT: 24-Hour

CUSTOMER INFORMATION

COMPANY: Boeing c/o TEST
SEND REPORT TO: Tim Daniels
ADDRESS:
PHONE: (949) 609-3290 FAX: (949) 609-3299

PROJECT INFORMATION

PROJECT NAME: Retaining Wall
NUMBER:
LOCATION:
ADDRESS:
SAMPLED BY: Anderson Cheng / Jack Russo

ANALYSIS/METHOD REQUEST: TPH/Diesel (8015M); Carbon chain specific (8260); VOC; TPH

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	TPH/Diesel (8015M)	Carbon chain specific (8260)	VOC	TPH					REMARKS/PRECAUTIONS
RW-57-8'	1	2/7/00	08:15	Soil	4oz	4°c									hold
RW-57-11'	1		08:40				X	X	X						
RW-56-8'	1		07:45												hold
RW-56-11'	1		08:16				X	X	X						
RW-58-8'	1		10:20				X	X	X						
RW-58-11'	1		11:20												hold
RW-59-8'	1		11:50												hold
RW-59-11'	1		12:34												hold
RW-510-2'	1		13:40				X	X	X	X					Standard TAT
RW-511-2'	1		13:44				X	X	X	X					Standard TAT

Jack D. Russo

Total No. of Samples: ~~8~~ 10 AC

Method of Shipment: Delivery

Relinquished By:	Date/Time:	Received By:	Date/Time:
Jack D. Russo	2/7/00 14:50		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time: 2-7-00

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)

BOE-C6-0211217

INTEGRATED
ENVIRONMENTAL SERVICES, INC.

Appendix C

Waste Management Documentation

Parcel B Pipeline Easement Assessment Report

Boeing Realty Corporation
Former C-6 Facility
Los Angeles, California
March 2001

ECI
Ecology Control Industries
A FULL SERVICE ENVIRONMENTAL COMPANY

TRANSPORTATION SERVICE ORDER

SERVICE ORDER # 147598

Integrated Environmental DATE: 3-17-2000

CUSTOMER

Name: Boeing / Douglas Job Location:

Address (BILLING): City: Long Beach, CA Zip:

Ordered by: Company: P.O. #:

DRIVER

Name (PRINT): Randy L. Darnell Signed: Randy L. Darnell

Truck #: 17004 Trailer #: 43016 Size/Type: R/L

SERVICES

Services performed: R/L TO TRANSPORT BIN FROM TORRANCE YARD TO IPS FOR DISPOSAL THEN BACK TO TORRANCE YARD

BIN # 1-20-1050

TIME

MANIFEST #: DISPOSAL #:

# #

# #

#Loads: Qty:

BBL: Gal: Tons: Yards:

Start: AM PM Stop: AM PM

MEALS: Start: AM PM Stop: AM PM

Other Time: Add/Deduct

Gross Time: 10 1/4 Hrs.

Less: 0 Hrs.

Total: 10 1/4 Hrs.

SITE

Time In: Time In: Time In: Stop Miles:

Start Miles:

Time Out Time Out Time Out Miles Driven:

DESCRIPTION

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off	10 1/4	hr	65.00	666.25	Roper Pump				
Flat Bed					Bin Liner				
Tank Mover					Surcharge				
Driver Relief									
Subsistence									

Authorized & Approved by: Title:

TOTAL CHARGES: $ 666.25

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portic of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

PAID

TPS Technologies Soil Recycling

[redacted]

Non-Hazardous Solid Waste Manifest

Date of Shipment	Responsible for Payment	Transporter Truck #	Facility #	Gross Weight	Date
	ECI	7621		110020	

Generator's Name and Billing Address:
Douglas Aircraft Co.
3855 Lakewood Blvd.
Long Beach CA 90846 JN 2696

Generator's Phone #: (562) 496-8524
Person to Contact:
FAX#:
Generator's USEPA ID No.:
Customer Account Number with TPS:

Consultant's Name and Billing Address:
Ecology Control Industries,
20846 S. Normandie Ave.
Torrance, CA 90502 USA

Consultant's Phone #: (310) 320-2555
Person to Contact: Brian Martinez
FAX#: (310) 320-1561
Customer Account Number with TPS:

Generation Site (Transport from): (name & address)
19503 S. Normandie Ave.
Boeing Realty Corp
Torrance CA 90502

Site Phone #:
Person to Contact:
FAX#:
BTEX Levels
TPH Levels
AVG. Levels

Designated Facility (Transport to): (name & address)
TPS Technologies, Inc.
12328 Hibiscus Ave.
Adelanto, CA 92301 USA

Facility Phone #: (800) 862-8001
Person to Contact: Darren R. Bartlett
FAX#: (760) 246-8004
Facility Permit Numbers:

Transporter Name and Mailing Address:
ECOLOGY CONTROL INDUSTRIES
20846 NORMANDIE AVE.
TORRANCE CA 90502

Transporter's Phone #: 310-320-2555
Person to Contact: Dispatch
FAX#: (310) 320-1561
Transporter's USEPA ID No.:
Transporter's DOT No.:
Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Clay ☐ Organic ☒ Other ☐	0 - 10% ☒ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☒ Other ☐	20 yd.	Closed top 20 yd bin	165160	41310	124
Sand ☐ Clay ☐ Organic ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐		SCQAMD - Rule 1166 VOC CONTAMINATED SOIL	95379		122

List any exception to items listed above: 1-8-002

1-8-2019

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: John MARASCO ☐ Generator ☐ Consultant ☐ Signature and date: Month 3 Day 16

Transporter's certification: *I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: ~~John MARASCO~~ Aurelio Gonzalez Signature and date: Month 3 Day 16

END

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Signature and date:

Generator and/or Consultant — Transporter — Recycling Facility

BOE-C6-0211220

Type Hazardous Soils

Consultant	1100	1012	002

Generator and/or Consultant

Generator's Name and Billing Address:
DOUGLAS AIRCRAFT COMPANY
3855 LAKEWOOD BLVD.
MS D009-0020
LONG BEACH, CA 90846 USA

Generator's Phone #:
Person to Contact: MARCIA SATTGAST
FAX#: (562) 496-6524
Generator's US EPA ID No.:
Customer Account Number with TPS: 1003480

Consultant's Name and Billing Address:
ECOLOGY CONTROL INDUSTRIES
20846 NORMANDIE AVE
TORRANCE, CA 90502 USA

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number with TPS: 7000233

Generation Site (Transport from): (name & address)
BOEING REALTY CORP - EC12
19503 NORMANDIE AVE
TORRANCE, CA 90502 USA

Site Phone #:
Person to Contact:
FAX#:
BTEX Levels
TPH Levels
AVG. Levels

Designated Facility (Transport to): (name & address)
TPS TECHNOLOGIES INC.
12328 HIBISCUS AVE.
Adelanto, CA 92301 USA

Facility Phone #: 800-862-8001
Person to Contact: DARREN R. BARTLETT
FAX#: 760-246-8004
Facility Permit Number:

Transporter

Transporter Name and Mailing Address:
ECI
20846 NORMANDIE AVE.
TORRANCE, CA 90502 USA

Transporter's Phone #: (310) 320-2555
Person to Contact:
FAX#: (310) 320-8532
Transporter's US EPA ID No.:
Transporter's DOT No.:
Customer Account Number with TPS: 1000230

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0-10% ☐ 10-20% ☐ 20%-over ☐	Gas ☐ Diesel ☐ Other ☐		SCAQMD-RULE 1166 VOC CONTAMINATED SOIL	73320	36820	36500
Sand ☐ Organic ☐ Clay ☐ Other ☐	0-10% ☐ 10-20% ☐ 20%-over ☐	Gas ☐ Diesel ☐ Other ☐					18.40
						55378	

List any exception to items listed above: Bin # 1-20-1050

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. JOHN MARASCO

Print or Type Name: JOHN MARASCO
Generator ☐ Consultant ☐
Signature and date: John C Marasco
Month 3 Day 16 Year 00

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Aurelio Gonzalez
Signature and date: Aurelio Gonzalez
Month 03 Day 16 Year 00

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. Bartlett/D. BENTON
Signature and date: 3/17/00

Soil Data Sheet

Generator and/or Consultant	Responsible for Payment: Consultant	Truck #	Facility #

Generator and/or Consultant

Generator's Name and Billing Address:
BOEING AIRCRAFT COMPANY
3855 LAKEWOOD BLVD.
MS D009-0020
LONG BEACH, CA 90846 USA

Person to Contact: MARCIA SATTGAST
FAX#: (562) 496-6524
Customer Account Number with TPS: 1003480

Consultant's Name and Billing Address:
ECOLOGY CONTROL INDUSTRIES
20846 NORMANDIE AVE
TORRANCE, CA 90502 USA

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number with TPS: 1000233

Generation Site (Transport from) (name & address)
BOEING REALTY CORP - EC12
19503 NORMANDIE AVE
TORRANCE, CA 90502 USA

Site Phone #:
Person to Contact:
FAX#:
TPH Levels
AVG. Levels

Designated Facility (Transport to) - (name & address)
TPS TECHNOLOGIES INC.
12328 HIBISCUS AVE.
Adelanto, CA 92301 USA

Facility Phone #: 800-862-8001
Facility Permit Number:
Person to Contact: DARREN R. BARTLETT
FAX#: 760-246-8004

Transporter

Transporter Name and Mailing Address:
ECI
20846 NORMANDIE AVE.
TORRANCE, CA 90502 USA

Transporter's Phone #: (310) 320-2555
Transporter's US EPA ID No.:
Person to Contact:
Transporter's DOT No.:
FAX#: (310) 320-8532
Customer Account Number with TPS: 1000233

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐		SCAQMD - Rule 1166 VOC contaminated soil	70540	31860	38680
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					11033

List any exception to items listed above: Bin # 1-20-374 55285

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: John Marasco — Generator ☐ Consultant ☐
Signature and date: [signature] Month 3 Day 16 Year 00

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Marcelino Gonzalez
Signature and date: [signature] Month 3 Day 16 Year 00

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. Bartlett/D. BENTON
Signature and date: HR 3/17/00

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest # A07 14012 001 03/17/00

Generator Site Information
BOEING REALTY CORP - EC12
19503 NORMANDIE AVE

TORRANCE, CA 90502 USA

WEIGHMASTER Weighed At:
TPS TECHNOLOGIES INC.
12328 HIBISCUS AVE.

Adelanto, CA 92301 USA

BY DEPUTY:

				LBS	TONS	
DBENTON	IN --->	10:37:58am	Gross Wt:	65,960	32.98	Scale # 1
DBENTON	OUT --->	11:20:46am	Tare Wt:	41,540	20.77	Scale # 1
			NET WT:	24,420	12.21	

Truck Number 17021
Trailer Number 188019/18002
Commodity: Petroleum Contaminated Soil

Driver On Gross and Tare Transporter: EC1 - AURELIO

WEIGHMASTER CERTIFICATE

TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest # A07 14012 002 03/17/00

Generator Site Information
BOEING REALTY CORP - EC12
19503 NORMANDIE AVE
TORRANCE, CA 90502 USA

WEIGHMASTER Weighed At:
TPS TECHNOLOGIES INC.
12328 HIBISCUS AVE.
Adelanto, CA 92301 USA

BY DEPUTY:
DBENTON IN ---> 10:38:37am
DBENTON OUT ---> 10:54:14am

	LBS	TONS	
Gross Wt:	73,360	36.68	Scale # 1
Tare Wt:	36,560	18.28	Scale # 1
NET WT:	36,800	18.40	

Truck Number 17004
Trailer Number 1-20-1050
Commodity: Petroleum Contaminated Soil

Driver On Gross and Tare Transporter: ECI - RANDY

12328 Hibiscus Ave. Adelanto, CA 92301

0553

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest # A07 14012 003 03/17/00

Generator Site Information
HUEING REALTY CORP - EC12
19503 NORMANDIE AVE

TORRANCE, CA 90502 USA

WEIGHMASTER Weighed At:
TPS TECHNOLOGIES INC.
12328 HIBISCUS AVE.

Adelanto, CA 92301 USA

BY DEPUTY:

			LBS	TONS	
DBENTON	IN --->	12:24:02pm	Gross Wt: 70,540	35.27	Manual Wt
DBENTON	OUT --->	01:05:17pm	Tare Wt.: 37,880	18.94	Scale # 1
Truck Number		16012	NET WT: 32,660	16.33	
Trailer Number		120374			

Commodity: Petroleum Contaminated Soil

Driver On Gross and Tare Transporter: EC1 - AURELIO

gy Control Industries
SERVICE ENVIRONMENTAL COMPANY

SERVICE ORDER

SERVICE ORDER # 146413 21-2696

DATE: 2-9-00

Name: INTEGRATED ENV. Job Location: 1900 IH of WESTERN. TORRANCE.

Address (BILLING): City: Zip:

Ordered by: Company: P.O. #:

Name (PRINT): ANTONIO PONCE Signed: Antonio Ponce.

Truck #: 13008 Trailer #: — Size/Type: R/O.

Services performed: ARRIVED AT ECI YARD. LOADED UP (1) EMPTY BIN # 1-20-1050. DELIVERED BINS TO 190 IH & WESTERN. LINED BINS W/ PLASTIC. DELIVERED (3) MORE EMPTY BINS # 1-20-374, 1-20-1038 & 1-20-372. STAND BY FOR EXTRA EMPTY BINS NOT NEEDED. RETURNED (2) EMPTY BINS NOT NEEDED # 1-20-1038 & 1-20-372 BACK ECI YARD. UNLOADED BINS OFF TRUCK.

MANIFEST #: DISPOSAL #:

# #

# #

#Loads: Qty:

BBL: Gal: Tons: Yards:

Start AM PM Stop: AM PM

MEALS: Start ~~AM PM~~ Stop: ~~AM PM~~

Other Time: Add/Deduct

Gross Time: 6.5 Hrs.

Less: 0 Hrs.

Total: 6.5 Hrs.

ECI Time In: 1000 Time Out: 1030

INTEGRATED Time In: 1045 Time Out: 1530

ECI Time In: 1545 Time Out: 1630

Stop Miles:

Start Miles:

Miles Driven:

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off	6.5				Roper Pump				
Flat Bed					Bin Liners	2			
Tank Mover					Surcharge				
Driver Relief									
Subsistence									

ENTERED

Authorized & Approved by: Title:

TOTAL CHARGES: $

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portion of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

Original: Accounting *Yellow: Accounting* *Pink: Customer* *Gold: Driver* TSO

BOE-C6-0211226

ogy Control Industries
SERVICE ENVIRONMENTAL COMPANY
Normandie Avenue, Torrance, CA 90502
0-2555 • FAX (310) 320-8532

#26916

SERVICE ORDER

SERVICE ORDER # 72473

DATE: 3/14/00

: EST
Job Location:
ess (BILLING):
City: TORRANCE CA
Zip:
red by:
Company:
P.O. #:
e (PRINT): CHARLES MOORE
Signed: Charles Moore
k #: 13002
Trailer #:
Size/Type: R/O
ices performed: DELIVER 3/84 BINS PLACED ON SITE AS REQUESTED
S.N. # 1-08-002 - 1-08-8009 8009

NIFEST #:	DISPOSAL #:	
#		Start: AM PM Stop: AM PM
#		MEALS: Start: AM PM Stop: AM PM
ads:	Qty:	
Gal:	Tons: Yards:	Other Time: Add/Deduct

Gross Time: 3 Hrs.
Less: 0 Hrs.
Total: 3 Hrs.

e In: 10:30	Time In: 11:45	Time In: 1:30	Stop Miles:
			Start Miles:
e Out: 11:00	Time Out: 1:15	Time Out:	Miles Driven:

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
cuum Truck					Disposal				
d Dump					Washout				
ll-off	8				Roper Pump				
at Bed					Bin Liner				
ink Mover					Surcharge				
iver Relief									
ubsistence									

TOTAL CHARGES: $

uthorized & Approved by: Title:

invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portion f this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

Original: Accounting Yellow: Accounting Pink: Customer Gold: Driver

BOE-C6-0211227

ECI
Ecology Control Industries
A FULL SERVICE ENVIRONMENTAL COMPANY

#26916

TRANSPORTATION
SERVICE ORDER

SERVICE ORDER # 147476

DATE: 3-16-00

CUSTOMER

Name: IESI Job Location: ~~3-16-00~~ Western @ 203 St.

Address (BILLING): City: Zip:

Ordered by: Brian Martasin Company: P.O. #:

DRIVER

Name (PRINT): Aurelio Gonzalez Signed: [signature]

Truck #: 13002 Trailer #: 42001 Size/Type: Rld

SERVICES

Services performed: Report to Job Location Above with Roll off Truck pick up 20yd. Loaded Bin - Haul to scale for legal weight. Bin to Torrance yard for Holdover. Returned to Job site & pick up second 20yd Bin for scale and to Torrance yard - Returned to Job site and picked up 3 8yd loaded Bins and (1) Empty 8yd Bin. Returned to Torrance yard with loaded Bins for Ho.

TI

MANIFEST #: DISPOSAL #:

# #

# #

#Loads: Qty:

BBL: Gal: Tons: Yards:

Start: 7:00 AM PM Stop: 3:00 PM AM PM

MEALS: Start: AM PM Stop: AM PM

Other Time: Add/Deduct

Gross Time: 6 Hrs

Less: 0 Hrs

Total: 6 Hrs

SITE

Time In: Time In: Time In: Stop Miles:

Start Miles:

Time Out: Time Out: Time Out: Miles Driven:

DESCRIPTION

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off	6				Roper Pump				
Flat Bed					Bin Liner				
Tank Mover					Surcharge				
Driver Relief									
~~Subsistence~~	(Disposal Charges)								
TPS -	46.94	tons	x 28.75	1349.53					

Authorized & Approved by: Title:

TOTAL CHARGES: $ 1349.53

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any por of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

ECI ///
Ecology Control Industries
A FULL SERVICE ENVIRONMENTAL COMPANY

2696

TRANSPORTATION SERVICE ORDER

SERVICE ORDER # 147587 2999

Integrated Environmental DATE: 3-17-00

CUSTOMER

Name: ~~Dougher Aircraft~~ Job Location: E-C-I

Address (BILLING): City: Zip:

Ordered by: Board Company: P.O. #:

DRIVER

Name (PRINT): Aurelio Bonzalez Signed: [signature]

Truck #: 16012 Trailer #: 34014 Size/Type: RLL

SERVICES

Services performed: Report to E-C-I. Picked up loaded Bin #1-20 and Transport to T.P.S. Adelanto Ca. for disposal

TIME

MANIFEST #: DISPOSAL #:

# # #

#Loads: Qty:

BBL: Gal: Tons: Yards:

Start: 9:30 AM PM Stop: 4:30 AM PM

MEALS: Start: AM PM Stop: AM PM

Other Time: Add/Deduct

Gross Time: 10 Hrs.

Less: 0 Hrs.

Total: 10 Hrs.

SITE

Time In: 12:15 p.m. Time In: Time In: 3:45 p.m. Stop Miles:

Time Out: 1:15 p.m. Time Out: Time Out: 4:30 p.m. Start Miles:

Miles Driven:

DESCRIPTION

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off	10	hr	65.00	650.00	Roper Pump				
Flat Bed					Bin Liner				
Tank Mover					Surcharge				
Driver Relief									
Subsistence									

Authorized & Approved by: Title:

TOTAL CHARGES: $ 650.00

ENTERED

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portic of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

BOE-C6-0211229

ECI
Ecology Control Industries
A FULL SERVICE ENVIRONMENTAL COMPANY

2696

TRANSPORTATION SERVICE ORDER

SERVICE ORDER # 147596-~~2696~~

DATE: 3-17-00

CUSTOMER

Name: ~~Douglas Aircraft~~ Integrated Environmental Job Location:

Address (BILLING): City: Long Beach Zip:

Ordered by: Company: P.O. #:

DRIVER

Name (PRINT): Enzo Minicucci Signed: [signature]

Truck #: 12021 Trailer #: 43012 Size/Type: Tractor/20

SERVICES

Services performed: Reported To E.C.I. Yard, Pre-Trip unit, Picked up Load Box # 1-8-8009 and # 1-8-002, Transported To T.P.S ADELANTO For Disposal. Returned Empty Bins To E.C.I. Yard.

TIME

MANIFEST #: 14012 DISPOSAL #: # 055379

# # #

#Loads: Qty:

BBL: Gal: Tons: Yards:

Start: AM PM Stop: AM PM

MEALS: Start: AM PM Stop: AM PM

Other Time: Add/Deduct

Gross Time: 10.5 Hrs.

Less: 0 Hrs.

Total: 10.5 Hrs.

SITE

Time In: 07:00 E.C.I. Time In: 10:45 T.P.S. Time In: 13:45 E.C.I. Stop Miles: 816024

Start Miles: 815822

Time Out 08:30 Time Out 11:30 Time Out 14:30 Miles Driven: 202

DESCRIPTION

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off	10.5	hr	65.00	682.50	Roper Pump				
Flat Bed					Bin Liner				
Tank Mover					Surcharge				
Driver Relief									
Subsistence									

Authorized & Approved by: Title:

TOTAL CHARGES: $ 682.50

ENTERED

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portic of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

BOE-C6-0211230

ECI ///
Ecology Control Industries
A FULL SERVICE ENVIRONMENTAL COMPANY

TRANSPORTATION SERVICE ORDER

SERVICE ORDER # 147598

Integrated Environmental DATE: 3-17-2000

CUSTOMER

Name: Boeing / Douglas Job Location:

Address (BILLING): City: Long Beach, CA Zip:

Ordered by: Company: P.O. #:

DRIVER

Name (PRINT): Randy L. Darnold Signed: Randy L. Darnold

Truck #: 17004 Trailer #: 43016 Size/Type: R/L

SERVICES

Services performed: R/L TO TRANSPORT BIN FROM TORRANCE YARD TO T.P.S. FOR DISPOSAL THEN BACK TO TORRANCE YARD

BIN # 1-20-1050

TIME

MANIFEST #: DISPOSAL #:

# #

# #

#Loads: Qty:

BBL: Gal: Tons: Yards:

Start: AM PM Stop: AM PM

MEALS: Start: AM PM Stop: AM PM

Other Time: Add/Deduct

Gross Time: 10 1/4 Hrs.

Less: 0 Hrs.

Total: 10 1/4 Hrs.

SITE

Time In: Time In: Time In: Stop Miles:

Start Miles:

Time Out: Time Out: Time Out: Miles Driven:

DESCRIPTION

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off	10 1/4	hr	65.00	666.25	Roper Pump				
Flat Bed					Bin Liner				
Tank Mover					Surcharge				
Driver Relief									
Subsistence									

Authorized & Approved by: Title:

TOTAL CHARGES: $ 666.25

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portion of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.