

To: Chris Potter, Administrative Records Coordinator, SWDIV

From: D. Tedaldi, Project Manager, Bechtel National, Inc.

Additional Information for Administrative Record Inputting:

- CTO-75
- Doc. Type = MISC
- EPA Cat. No. = 3.2
- Subject: Chain of Custody Records, MCAS El Toro, Underground Storage Tank Site Assessments

Operable Units/Sites: UST Sites



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 6, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Revision 1
Aquatec Project Number 94227
Case No. 075; SDG No. 51473; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on May 26, 27 and June 1, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
Samples Received on May 26, 1995 ETR No. 51473		
075000101	257998	Soil
075000101	257998MS	Soil
075000101	257998MD	Soil
075000102	257999	Soil
075000201	258000	Soil
075000202	258001	Soil
075000301	258002	Soil
075000302	258003	Soil
075000401	258004	Soil
075000402	258005	Soil
075000501	258006	Soil
075000501	258006MS	Soil
075000501	258006MD	Soil
075000501	258006DP	Soil
075000501	258006R1	Soil
075000501	258006R2	Soil
075000501	258006R3	Soil
075000502	258007	Soil
075000601	258008	Soil
075000602	258009	Soil
075000701	258010	Soil
075000702	258011	Soil
075000801	258012	Soil
075000802	258013	Soil
LCSS	258014	Solid

Rev. 7/6/95
mm

<u>Client Sample ID</u>	<u>Laboratory Lab No.</u>	<u>Sample Matrix</u>
Samples Received on May 27, 1995 ETR No. 51480		
075000901	258045	Soil
075000901	258045R1	Soil
075001001	258046	Soil
075001201	258047	Water
075001202	258048	Water
075001301	258050	Soil
075001501	258051	Water
075001601	258052	Water
075001701	258053	Water
075001702	258054	Water
075001801	258055	Water
075001802	258056	Water
075001901	258057	Water
075002001	258058	Water
075002101	258059	Water

Samples Received on June 1, 1995
ETR No. 51548

075002201	258407	Soil
075002202	258408	Soil
075002301	258409	Water
075002302	258410	Water
075002401	258411	Soil
075002402	258412	Soil
075002501	258413	Soil
075002502	258414	Soil
075002601	258415	Soil
075002602	258416	Soil
075002701	258417	Soil
075002702	258418	Soil
075002801	258419	Soil
075002802	258420	Soil
075002901	258421	Water
075002902	258422	Water
075002903	258423	Water
075002904	258424	Water
075003001	258425	Soil
075000302	258426	Soil

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL) with the exception of the CLP metals analysis which is reported by contract to the Instrument Detection Limit (IDL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used have been hand edited onto calibration summary Form 6.

The closing 8020-BTEX calibration check standard on the VOCOL column dated 6/8/95 exhibited an increased response resulting in percent differences outside quality control criteria. The primary column exhibited acceptable stability.

The 8020-BTEX analysis of sample labeled 0758002301 occurred three days beyond the prescribed holding time. Please note that this sample was received at the laboratory on the final day, fourteen days from sample collection.

The original 8020-BTEX analysis of samples labeled 0758000501, 075000501MS and 075000501MSD exhibited surrogate and matrix spike compound recoveries above quality control criteria. The blank spike sample labeled LCS accompanying their analysis also exceeded control limits. These samples were reanalyzed beyond the prescribed holding time yielding acceptable results; with the exception of an interference with one surrogate compound on one analytical column. Both sets of data have been presented with this case submittal.

The original 8020-BTEX analysis of sample labeled 075000901 was accomplished using medium level methodology due to a strong odor in the sample observed by the laboratory. This analysis did not produce analyte concentrations above reporting limits. This sample was reanalyzed beyond the prescribed holding time using low level methodology. Both sets of data have been presented in this case submittal.

The orthophosphate analysis of sample 075002001 occurred beyond the prescribed holding time. This sample was received at the laboratory on a Saturday without the proper coordination to provide staffing for short holding time analyses. This problem has been corrected for all future deliveries.

Sample labeled 075001203 was compromised in the laboratory prior to extraction for TPH-Diesel analysis, as documented in the sample handling section of this case submittal. No spare containers for this sample were received to allow for the completion of this analysis.

Dr. Randy Jordan
July 6, 1995
Page 4

The TPH-Diesel analysis of sample 075000101MS exhibited matrix spike recovery of diesel fuel below quality control criteria. This anomaly may be due to the relatively high concentration of this compound in the parent sample 075000101.

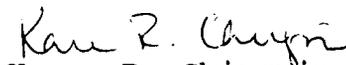
Please note the use of the following additional qualifier when reporting TPH-Diesel results:

Y = A fuel mixture pattern was detected but does not fall within 90% of the calibration standard range, and does not exhibit a reasonable pattern match to any of the calibrated fuels.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,


Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B6JUL95

0002F



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

June 30, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51473; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on May 26, 27 and June 1, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
Samples Received on May 26, 1995		
ETR No. 51473		
075000101	257998	Soil
075000101	257998MS	Soil
075000101	257998MD	Soil
075000102	257999	Soil
075000201	258000	Soil
075000202	258001	Soil
075000301	258002	Soil
075000302	258003	Soil
075000401	258004	Soil
075000402	258005	Soil
075000501	258006	Soil
075000501	258006MS	Soil
075000501	258006MD	Soil
075000501	258006DP	Soil
075000501	258006R1	Soil
075000501	258006R2	Soil
075000501	258006R3	Soil
075000502	258007	Soil
075000601	258008	Soil
075000602	258009	Soil
075000701	258010	Soil
075000702	258011	Soil
075000801	258012	Soil
075000802	258013	Soil
LCSS	258014	Solid

00001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
-----------------------------------	-------------------------------------	--------------------------------

Samples Received on May 27, 1995
ETR No. 51480

075000901	258045	Soil
075000901	258045R1	Soil
075001001	258046	Soil
075001201	258047	Water
075001202	258048	Water
075001301	258050	Soil
075001501	258051	Water
075001601	258052	Water
075001701	258053	Water
075001702	258054	Water
075001801	258055	Water
075001802	258056	Water
075001901	258057	Water
075002001	258058	Water
075002101	258059	Water

Samples Received on June 1, 1995
ETR No. 51548

075002201	258407	Soil
075002202	258408	Soil
075002301	258409	Water
075002302	258410	Water
075002401	258411	Soil
075002402	258412	Soil
075002501	258413	Soil
075002502	258414	Soil
075002601	258415	Soil
075002602	258416	Soil
075002701	258417	Soil
075002702	258418	Soil
075002801	258419	Soil
075002802	258420	Soil
075002901	258421	Water
075002902	258422	Water
075002903	258423	Water
075002904	258424	Water
075003001	258425	Soil
075000302	258426	Soil

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00002

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL) with the exception of the CLP metals analysis which is reported by contract to the Instrument Detection Limit (IDL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used have been hand edited onto calibration summary Form 6.

The closing 8020-BTEX calibration check standard on the VOCOL column dated 6/8/95 exhibited an increased response resulting in percent differences outside quality control criteria. The primary column exhibited acceptable stability.

The 8020-BTEX analysis of sample labeled 0378002301 occurred three days beyond the prescribed holding time. Please note that this sample was received at the laboratory on the final day, fourteen days from sample collection.

The original 8020-BTEX analysis of samples labeled 0378000501, 037000501MS and 037000501MSD exhibited surrogate and matrix spike compound recoveries above quality control criteria. The blank spike sample labeled LCS accompanying their analysis also exceeded control limits. These samples were reanalyzed beyond the prescribed holding time yielding acceptable results; with the exception of an interference with one surrogate compound on one analytical column. Both sets of data have been presented with this case submittal.

The original 8020-BTEX analysis of sample labeled 037000901 was accomplished using medium level methodology due to a strong odor in the sample observed by the laboratory. This analysis did not produce analyte concentrations above reporting limits. This sample was reanalyzed beyond the prescribed holding time using low level methodology. Both sets of data have been presented in this case submittal.

The orthophosphate analysis of sample 075002001 occurred beyond the prescribed holding time. This sample was received at the laboratory on a Saturday without the proper coordination to provide staffing for short holding time analyses. This problem has been corrected for all future deliveries.

Sample labeled 075001203 was compromised in the laboratory prior to extraction for TPH-Diesel analysis, as documented in the sample handling section of this case submittal. No spare containers for this sample were received to allow for the completion of this analysis.

00002A

Dr. Randy Jordan
June 30, 1995
Page 4

The TPH-Diesel analysis of sample 075000101MS exhibited matrix spike recovery of diesel fuel below quality control criteria. This anomaly may be due to the relatively high concentration of this compound in the parent sample 075000101.

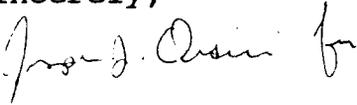
Please note the use of the following additional qualifier when reporting TPH-Diesel results:

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For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

Enclosure

0000213



CLEAN II

CHAIN-OF-CUSTODY RECORD

55

000000

Site Name: MCAS FELTORG
 CTO Number: 075

Sampler's Name(s): Brian Condala, Michelle Daley
 Sampler's Signature(s): B. Condala, Michele Daley

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: AQUATEC
 Analytical Laboratory Address: 75 Green Mt Dr., S Burlington, VT
 Field QC Package Number: BC NA
 Field Logbook/Page Number: 00024-075-SB-001 / 00023-00024
 Date: 5-25-95

Preservation: SOILS (TPH-D)
TPH (BTEX)
ORGANO-LEAD

QC Level
 C D E

TAT (in days)
 2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0006	5/25/95 15:05	380A-SB1 / 30-31.5	SOIL		J.S. Tube	01	See comments below
				X		02	archive
075-0007	5/25/95 15:10	380A-SB1 / 36-36.5				01	see comments below
				X		02	archive
075-0008	5/25/95 15:30	380A-SB1 / 42.5-43				01	see comments below
				X		02	slightly Disturbed Slight headspace Archive

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>Brian Condala</u>	<u>[Signature]</u>	<u>5/25/95</u>	<u>5:22 PM</u>	<u>ANALYSIS</u>	* All samples cooled to 4°C Analyze sample with highest TPH for BTEX and organo lead from samples 075-0001-01 through 075-0008-01 Method of Shipment: <u>Fed Ex</u> Airbill No.: <u>3921256640</u> Total No. of Coolers Shipped: <u>1</u>
	<u>[Signature]</u>	<u>5/26/95</u>	<u>09:30</u>		



CLEAN II

CHAIN-OF-CUSTODY RECORD

000006

Site Name: <u>MCAS, EL DOD, 380A-SB2</u>	Sampler's Name(s): <u>B. Corbala, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B Corbala</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Dr., Colchester, VT 05446
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-001 / 0000 52
 Date: 5-26-95

Pay Items/Analyses Required

HCL	HCL	H₂SO₄	A^oC	A^oC
8240	8020(BTEX)	353.3TKN	365.2	ORGANOLEAD

QC Level:

C	D	E
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TAT (in days):

2	7	14	30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)					Remarks (e.g., MS, MSD)
						HCL	HCL	H₂SO₄	A^oC	A^oC	
075-0017	5/26/95 11:10	380A-SB2	WATER		VOA VIAL	01					SOURCE BLANKS
075-0017	↓	↓	WATER	02	VOA VIAL						" "
075-0018	5-26-95 11:20	↓	WATER	01 TOO ND	VOA VIAL						ARCHIVE "
↓	↓	↓	WATER	02	VOA VIAL						" "
075-0019	5/26/95 11:27	↓	WATER		Glass Amber			01			" "
075-0020	5/26/95 11:33	↓	WATER		Plastic			01			" "
075-0021	5-26-95 11:37	↓	↓		↓			01			" "

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>M. Dalrymple</u>	<u>Michael T. Hebert</u>	<u>5/26/95</u>	<u>1300</u>	<u>Analysis</u>	<u>None</u>
		<u>5/27/95</u>	<u>0930</u>		
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>3921256651</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

Sheet 2 of 2

5400

000007

Site Name: MCAS BLDG, 126
CTO Number: 075

Sampler's Name(s): B. Cundelan, to Andy DALRYMPLE
Sampler's Signature(s): B. Cundelan BC for MWD

Site Contact/Supervisor: Craig Carshole

Analytical Laboratory Name: _____
Analytical Laboratory Address: _____
Field QC Package Number: _____
Field Logbook/Page Number: 475-5B-441 / 444 27
Date: 5/30/95

Pay Items/Analyses Required			
none	HCL	none	Preservation
8015M (TPH-D)	8020 (BTEX)	Organo Lead	

QC Level
C D E

TAT (in days)
2 | 7 | 14 | 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)				Remarks (e.g., MS, MSD)
						none	HCL	none	Preservation	
✓ 475-4422	5-30-95 1025	126/SB1/	SOIL	φ2	SS TUBE	φ1	/	/	/	
✓ 475-4423	5-30-95 1430	126/SB1/Trip Blank	WATER	φ2	LOAD VIAL	φ1	/	/	/	Trip Blank
✓ 475-4424	5-30-95 1058		SOIL	φ2	SS TUBE	φ1	/	/	/	
X 475-4424				φ2			/	/	/	
X 4425	5-30-95 1108			φ2		φ1	/	/	/	
X 4425				φ2			/	/	/	
X 4426	5-30-95 1112			φ2		φ1	/	/	/	
X 475-4427				φ2			/	/	/	
X 475-4427	1120			φ2			/	/	/	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
	<u>Maureen J. Henry</u>	<u>6/1/95</u>	<u>0930</u>		<u>SAME AS SWT 102</u>
					Method of Shipment: <u>FED EX</u>
					Airbill No. <u>5962295486</u> Total No. of Coolers Shipped: <u>1</u>



CHAIN-OF-CUSTODY RECORD

5508

600000

Site Name: MCAS, EL Toro, 126
 CTO Number: Φ 7.5

Sampler's Name(s): B. Cundelan / M. Dalrymple
 Sampler's Signature(s): B. Cundelan / M. Dalrymple

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT 05446
 Field QC Package Number: N/A
 Field Logbook/Page Number: Φ75-SB1-ΦΦ11
 Date: _____

Pay Items/Analyses Required

None	HELL	None	Preservation
ΦΦ15M (TPH-D)	ΦΦ2Φ (BTEX)	ORGANIC LEAD	

QC Level

C	<input checked="" type="checkbox"/> D	E
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TAT (in days)

2	7	14	<input checked="" type="checkbox"/> 30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	None	HELL	None	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Φ75-ΦΦ3Φ	5-31-95 ΦΦ3Φ	126-SB2 / 6.0 ^{MD} -6.5 ^{MD}	SOIL	/	SS TUBE	Φ1	/	/	X	NONE
Φ75-ΦΦ3Φ	↓	/ 5.5-6.0		Φ2		/	/	/		
-ΦΦ31	5-31-95 ΦΦ45	/ 11.0-11.5		/		Φ1	/	/		
-ΦΦ31	↓	/ 10.5-11.0		Φ2		/	/	/		
-ΦΦ32	5/31/95 ΦΦ54	/ 16.0-16.5		/		Φ1	/	/		
-ΦΦ32	↓	/ 15.5-16.0		Φ2		/	/	/		
ΦΦ33	ΦΦ49	/ 21.0-21.5		/		Φ1	/	/		
ΦΦ33	↓	/ 20.5-21.0		Φ2		/	/	/		
ΦΦ34	ΦΦ1Φ	/ 26.0-26.5		/		Φ1	/	/		
ΦΦ34	↓	✓ / 25.5-26.0		Φ2	✓	/	/	/		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelan	<i>[Signature]</i>	5/31/95	1530	ANALYSIS	ALL SAMPLES COOLED TO 4°C ANALYZE SAMPLE WITH HIGHEST TPH FOR BTEX AND SOIL ORGANIC LEAD FROM SAMPLES Φ75-ΦΦ3Φ THROUGH Φ75-ΦΦ37. IF ALL CLEAR, ANALYZE Φ75-ΦΦ37 FOR BTEX+OL.
		6/1/95	0930		Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5962245242</u> 130 Total No. of Coolers: <u>1</u>

3921256662



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 3, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51552; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 1, 2 and 3, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
-----------------------------------	-------------------------------------	--------------------------------

Samples Received on June 2, 1995
ETR No. 51552

075003101	258452	Soil
075003102	258453	Soil
075003201	258454	Soil
075003202	258455	Soil
075003301	258456	Soil
075003302	258457	Soil
075003401	258458	Soil
075003402	258459	Soil
075003501	258460	Soil
075003502	258461	Soil
075003601	258452	Soil
075003602	258453	Soil
075003701	258464	Soil
075003702	258465	Soil
075003801	258466	Water
075003802	258467	Water
075003901	258468	Water
075003902	258469	Water
075003903	258470	Water
075003904	258471	Water

00001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
Samples Received on June 2, 1995 ETR No. 51612		
075004001	258633	Soil
075004002	258634	Soil
075004101	258635	Soil
075004301	258636	Soil
075004302	258637	Soil
075004401	258638	Soil
075004401	258638MS	Soil
075004401	258638MD	Soil
075004402	258639	Soil
075004601	258640	Soil
075004602	258641	Soil
075004701	258642	Soil
075004702	258643	Soil
075004801	258644	Water
075004802	258645	Water
075004901	258646	Water
075004902	258647	Water
075004903	258648	Water
075004904	258649	Water
075005001	258650	Water
075005002	258651	Water
075005003	258652	Water
LCSS	259072	Solid
LCSW	259073	Liquid

Samples Received on June 3, 1995 ETR No. 51661		
075005101	258903	Water
075005102	258904	Water
075005201	258905	Soil
075005202	258906	Soil
075005301	258907	Soil
075005301	258907MS	Soil
075005301	258907MD	Soil
075005302	258908	Soil
075005401	258909	Soil
075005402	258910	Soil
075005501	258911	Soil
075005502	258912	Soil
LCSS	258931	Solid

Dr. Randy Jordan
July 3, 1995
Page 3

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

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As documented in telephone records included in the Sample Handling section of this case submittal, confusion existed regarding the frequency of sampling required for the analysis of matrix spike, matrix spike duplicate and replicate samples. The laboratory initiated the appropriate quality control analyses when sufficient sample volume was available, if these samples were not identified on the field custody chains. The TPH-gas analyses presented in this sample delivery group do not contain the presence of matrix spike, matrix spike duplicate analyses.

Please note the use of the following additional qualifier when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall within 90% of the calibration standard range, and does not exhibit a reasonable pattern match to any of the calibrated fuels.

Please note that the identification of samples 075004401, 075004401MS and 075004401MSD were truncated during the 8240 volatile organic analysis to 0044, 0044MS and 0044MSD respectively in order to allow for data processing by a commercial software system.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used have been hand edited onto calibration summary Form 6.

The closing 8020-BTEX calibration check standard on the RTX-1 column dated 6/8/95 exhibited a decreased response resulting in percent differences outside quality control criteria. This standard on the VOCOL column exhibited acceptable stability. The continuing check standard on the VOCOL analytical sequence dated 6/11/95 exhibited an increased response resulting in percent differences outside quality control criteria. This standard on the RTX-1 column exhibited acceptable stability. Please note that the analytical sequence dated 6/6/95 did not end with a calibration check standard.

00002A

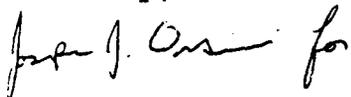
Dr. Randy Jordan
July 3, 1995
Page 4

The 8020-BTEX analysis of sample labeled 075003801 occurred three days beyond the prescribed holding time. Please note that this sample was received at the laboratory on the final day, fourteen days from sample collection. Sample 075005101 was also analyzed beyond holding time, as it was received three days beyond the prescribed holding time.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B7JUN95

000021



CLEAN II

COPY ORIGINAL ON FILE

SDG #

51473 51549

5508

COOLERS

CHAIN-OF-CUSTODY RECORD

Site Name: MCAS, EL Toro, 126
CTO Number: Ø 7.5

Sampler's Name(s): B. Condon / M. Dalrymple
Sampler's Signature(s): B. Condon / M. Dalrymple

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester, VT 05446
Field QC Package Number: N/A
Field Logbook/Page Number: Ø75-SB1-ØØ11
Date: _____

Pay Items/Analyses Required

None ~~Ø15M (TPH-D)~~
None ~~Ø20 (BTEX)~~
None ~~ORGANIC LEAD~~

QC Level
C E

TAT (in days)
2 7 14 30

Preservation

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	None			Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
						Ø15M (TPH-D)	Ø20 (BTEX)	ORGANIC LEAD		
Ø75-ØØ3Ø	5-31-95 ØØ3Ø	126-SB2 / 6.0 ^{MD} -6.5 ^{MD}	SOIL		SS TUBE	Ø1	/	/	X	NONE
Ø75-ØØ3Ø	↓	/ 5.5-6.0		Ø2		/	/	/		
Ø75-ØØ31	5-31-95 ØØ45	/ 11.0-11.5				Ø1	/	/		
Ø75-ØØ31	↓	/ 10.5-11.0		Ø2		/	/	/		
Ø75-ØØ32	5/31/95 ØØ54	/ 16.0-16.5				Ø1	/	/		
Ø75-ØØ32	↓	/ 15.5-16.0		Ø2		/	/	/		
Ø75-ØØ33	Ø9Ø9	/ 21.0-21.5				Ø1	/	/		
Ø75-ØØ33	↓	/ 20.5-21.0		Ø2		/	/	/		
Ø75-ØØ34	Ø91Ø	/ 26.0-26.5				Ø1	/	/		
Ø75-ØØ34	↓	✓ / 25.5-26.0		Ø2		/	/	/		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Condon	<i>[Signature]</i>	5/31/95	153Ø	ANALYSIS	ALL SAMPLES COOLED TO 4°C ANALYZE SAMPLE with highest TPH FOR BTEX AND SOIL
	<i>[Signature]</i>	6/1/95	Ø93Ø		ORGANIC LEAD FROM SAMPLES Ø75-ØØ3Ø THROUGH Ø75-ØØ37. IF ALL CLEAR, ANALYZE Ø75-ØØ37 FOR BTEX+OL.
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5963295242 13rd</u> Total No. Coolers Shipped: <u>1</u>

3921256662



CLEAN II

CHAIN-OF-CUSTODY RECORD

7000004

Site Name: <u>HEAS EL 20, 124</u>	Sampler's Name(s): <u>B. Cordelan, M. Dalgarno</u>	Site Contact/Supervisor: <u>COAGY CARLISL</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B. Cordelan, M. Dalgarno</u>	

Analytical Laboratory Name: Trichape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT 05446
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB1-001
 Date: 5-31-95

Pay Items/Analyses Required

NOVA	HCL	NOVA	Preservation
8015M (TPH) 2	0924	010000 Low	

QC Level:

C	<input checked="" type="checkbox"/>	E
---	-------------------------------------	---

TAT (in days):

2	7	14	<input checked="" type="checkbox"/>
---	---	----	-------------------------------------

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0435	5-3-95 0924	126-SB2/31.0-31.5	SOIL	/	SS Tube	01	NONE
35	0924	/30.5-31.0		02			
36	0924	/36.0-36.5					
36	0924	/35.5-36.0		02			
37	0935	/41.0-41.5					
37	5-31-95 0935	/40.5-41.0		02			
075-0438	5-31-95 5-18-95 1034	126-SB2	WATER	/	WALSALS	01	TRIP BLANK
38	5-31-95 1115	55-18-95 21030				02	TRIP BLANK
075-0439	5-31-95 1115			/	WALSALS	01	SOURCE BLANK
39	1115					02	SOURCE BLANK
39	1115				PLASTIC	03	" "

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cordelan	<i>Maureen [Signature]</i>	5/31/95	1530	ANALYSIS	SEE Sht. No 5508
		6/1/95	0930		
					Method of Shipment: <u>FED E&P</u>
					Airbill No.: <u>392/25666E</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5512
200000

Site Name: MCAS EL Toro, 554
CTO Number: 075

Sampler's Name(s): B. Condelean, M. Dalrymple
Sampler's Signature(s): B. Condelean, M. Dalrymple

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Drive Colchester, VT 05446
Field QC Package Number: N/A
Field Logbook/Page Number: 075-SB-042 / 000141 to 000142
Date: 6-1-95

Pay Items/Analyses Required

QC Level
C E

TAT (in days)
2 7 14

8215M (TPHD)
8240 (water)
8240 (soil)

None HCL Preservation

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)			Remarks (e.g., MS, MSD)
						None	HCL	Preservation	
075-0045									
075-0045									
✓ 075-0046	6-1-95 1045	554 / 26.0 - 26.5	SOIL		φ1				
✓ 075-0046	1045	554 / 25.5 - 26.0	↓	φ2					
✓ 075-0047	1055	554 / 31.0 - 31.5	↓		φ1	φ1			satuated
✓ 075-0047	1055	554 / 30.5 - 31.0	↓	φ2					↓
✓ 075-0048	5-18-95 1030	554 / Trip blank	water		VOA vial	φ1			Trip blank
✓ 075-0048	5-18-95 1030	554 / Trip blank	water	φ2	VOA vial	φ2			Trip blank
✓ 075-0049	6-1-95 1150	↓ / source blank	↓			φ1			source blank
✓ 075-0049	6-1-95 1150	↓ / " "	↓	φ2		φ2			↓

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Condelean	<i>Maureen</i>	6-1-95	1504	ANALYSIS	ALL Samples Collected to 48 Analyze Samples with highest TPH for BTEX and Organic load from Samples
		6/2/95	0930		
					Method of Shipment: FED EXP
					Airbill No.: 5962295242 Total No. of Coolers: 1



CLEAN II

CHAIN-OF-CUSTODY RECORD

000005

Site Name: MCAS EL Tico, 554
CTO Number: Φ 7.5

Sampler's Name(s): B. Coudreau, M. Dalrymple
Sampler's Signature(s): B. Coudreau, M. Dalrymple

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Envirope Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester, VT Φ 5446
Field QC Package Number: N/A
Field Logbook/Page Number: Φ 75-SB-Φ Φ 2 / Φ Φ Φ 141 TO Φ Φ Φ 142
Date: 6-1-95

Pay Items/Analyses Required
None *ED1574 (P+D)*
None *original lead*
Preservation

QC Level
C E

TAT (in days)
2 7 14

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
✓ Φ 75-Φ Φ 54 mp 491	6-1-95 1150 ✓	554 / source blank	water	/	plastic	04	source blank
✓ Φ 75-Φ Φ 54 mp 491	6-1-95 1150 ✓	554 / ↓	↓	/	12 Amber	04	↓
BC SD							
BC SD							
BC 6-1-95							

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Coudreau	<i>Maureen</i>	6-1-95	15 Φ 4	ANALYSIS	See sheet 5572
		6/2/95	0930		
					Method of Shipment: FED EXP
					Airbill No.: 59622952 42
					Total No. of Coolers Shipped: 1



CLEAN II

CHAIN-OF-CUSTODY RECORD

Site Name: MCAS, EL TORO, 14-SB1 + SB2

Sampler's Name(s): B. Candelari, M. Dalrymple

Site Contact/Supervisor:

CTO Number: Φ 75

Sampler's Signature(s): M. Dalrymple B. Candelari

Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester UT
 Field QC Package Number: 16/17
 Field Logbook/Page Number: Φ 75-SB-ΦΦ 21 ΦΦΦ 144 + ΦΦΦ 145
 Date: 6-2-95

Pay Items/Analyses Required

QC Level
 C D E

TAT (in days)
 2 7 14 30

NOVE
HCL
Φ 200

Preservation

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Φ 75-Φ 451	6-2-95 5-15-95	14 / Trip blank	WATER	/	WATERIAL	Φ 1	Trip BLANK
51	6-2-95 6-30-95	14 / " "	WATER	Φ 2	WATERIAL	Φ 1	Trip BLANK
52	6-2-95 6-2-95	14 / 6.Φ-6.5	SOIL	/	SS TUBE	Φ 1	
52	6-2-95 6-2-95	14 / 5.5-6.4		Φ 2		Φ 1	
53	6-2-95 6-2-95	14 / 11.Φ-11.5		/		Φ 1	
53	6-2-95 6-2-95	14 / 14.5-11.Φ		Φ 2		Φ 1	
54	6-2-95 6-2-95	14 / 16.Φ-16.5		/		Φ 1	
54	6-2-95 6-2-95	14 / 15.5-16.Φ		Φ 2		Φ 1	
55	6-2-95 6-2-95	14 / 21.Φ-21.5		/		Φ 1	
Φ 75-Φ 455	6-2-95 6-2-95	14 / 2Φ.5-21.Φ		Φ 2	SS TUBE	Φ 1	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>B. Candelari</u>	<u>[Signature]</u>	<u>6-2-95</u>		<u>ANALYSIS</u>	<u>ALL SAMPLES COOLED TO 4°C</u>
		<u>6/3/95</u>	<u>1015</u>	<u>LAB ANALYSIS</u>	<u>ANALYZE SOIL SAMPLE WITH HIGHEST TPH FOR BTEX AND ORGANIC LEAD. IF TPH NOT DETECTED IN SOIL SAMPLES, THEN, TEST DEEPEST (NO. Φ 75-Φ 464 FOR BTEX AND ORGANIC LEAD)</u>
					<u>Method of Shipment: FED EXP</u>
					<u>Airbill No.: 5962295264</u>
					<u>Total No. of Coolers Shipped: 1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 5, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51663; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 3, 6 and 7, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
-----------------------------------	-------------------------------------	--------------------------------

Samples Received on June 3, 1995
ETR No. 51663

075005601	258913	Soil
075005602	258914	Soil
075005701	258915	Water
075005801	258916	Soil
075005901	258917	Soil
075005902	258918	Soil
075006001	258919	Soil
075006002	258920	Soil
075006101	258921	Soil
075006102	258922	Soil
075006201	258923	Soil
075006202	258924	Soil
075006301	258925	Soil
075006302	258926	Soil
075006401	258927	Soil
075006402	258928	Soil
075006501	258929	Soil
075006502	258930	Soil

Samples Received on June 6, 1995
ETR No. 51683

075006601	259111	Soil
075006602	259112	Soil
075006701	259113	Soil
075006702	259114	Soil
075006801	259115	Soil

00001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 6, 1995
ETR No. 51683 (continued)

075006901	259116	Soil
075006902	259117	Soil
075007001	259118	Soil
075007002	259119	Soil
075007101	259120	Soil
075007201	259121	Soil
075007202	259122	Soil
075007301	259123	Soil
075007302	259124	Soil
075007401	259125	Soil
075007501	259126	Water
075007502	259127	Water

Samples Received on June 7, 1995
ETR No. 51714

075007801	259400	Soil
075007801	259400MS	Soil
075007801	259400MD	Soil
075007802	259401	Soil
LCSS	259402	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL) with the exception of the CLP metals analysis which is reported by contract to the Instrument Detection Limit (IDL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

The organic lead analysis of sample 075007401 was prepared beyond the prescribed holding time. This anomaly was due to the initial coordination difficulties related to the client request to analyze the sample with the highest TPH-diesel result for organic lead. These issues have been resolved and should not impact future sample analyses.

Dr. Randy Jordan
July 5, 1995
Page 3

The TPH-diesel analysis of sample 075007801MSD exhibited matrix spike compound recovery outside quality control criteria. The laboratory suspects that this anomaly was related to the relatively high concentration of diesel fuel in parent sample 075007801 and non-homogeneity of the sample matrix.

Please note the use of the following additional qualifier when reporting TPH-diesel results:

Z = An unknown single peak or chromatographic pattern was detected but does not resemble a typical fuel pattern.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used for each column and compound have been recorded on calibration summary Form 6.

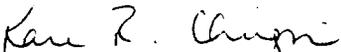
The 8020-BTEX analysis of sample labeled 075005901 exhibited surrogate recovery of 1-chloro,2-fluorobenzene slightly below quality control criteria. Method blank labeled UBLKL5 exhibited surrogate recovery above control limits on one analytical column. Blank spike sample labeled C1-LCS was apparently not fortified with surrogate spike, resulting in zero percent recoveries.

The 8020-BTEX analysis of sample 075005901 was accomplished using medium level methodology due to the large interferences from the diesel fuel present in the sample. A medium level method blank, IBLKA2, has been presented in association with this sample.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,


Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B26JUN95

00002A



CLAN II

CHAIN-OF-CUSTODY RECORD

Site Name: <u>MCAS EL TORO; 14SB1 + SB2</u>	Sampler's Name(s): <u>B Cuddegar, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>M Dalrymple, B Cuddegar</u>	

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-213-002 / 000144 + 000145
 Date: 6-2-95

Pay Items/Analyses Required

QC Level	C	<input checked="" type="checkbox"/>	E	
TAT (in days)	2	7	14	<input checked="" type="checkbox"/>

Non-Boish (CPH-2)

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0061	6-2-95 1113	14-SB2/20-21.5	SOIL SRS	/	SSTUBE	01	
61	1113	20.5-21.4		/	02		
62	1119	26.0-26.5		/	01		
63	1119	25.5-26.0		/	02		
63	1125	31.0-31.5		/	01		
63	1125	30.0-31.4		/	02		
64	1135	36.0-36.5		/	01		
64	1135	35.0-36.4		/	02		
65	1144	41.0-41.5		/	01		
075-0065	1144	40.5 - 41.0	SOIL SRS	/	02		

Be 6-2-95

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B Cuddegar		6-2-95		ANALYSIS	See COC Record 5516
		6/3/95	1015	LAB ANALYSIS	
					Method of Shipment: <u>FED EX</u>
					Airbill No.: <u>5962295264</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

10007

Site Name: MCAS ELDER, 14-SB1 + SB2
 CTO Number: Φ 75

Sampler's Name(s): B. Cundelan, M. Dalrymple
 Sampler's Signature(s): M. Dalrymple, B. Cundelan

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: Φ 75-SB-ΦΦ2 / ΦΦΦ 144 + ΦΦΦ 145
 Date: 6-2-95

Pay Items/Analyses Required

None	Preservation
------	--------------

QC Level
 C D E

TAT (in days)

2	7	14	30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Φ 75-ΦΦ56	6-2-95 Φ 924	14-SB1 / 26.Φ - 26.5	SOIL	Φ 2	SS TUBE	Φ 1	
56	6-2-95 Φ 924	14-SB1 / 25.5 - 26.Φ	SOIL	Φ 2	↓		
57	6-2-95 0940	14-SB1 / EQUIP RINSE	WATER	Φ 2	12 Amber	Φ 1	EQUIP RINSE BLANK
58	6-2-95 1055	14-SB2 / 6.Φ - 6.5	SOIL	Φ 2	SS Tube	Φ 1	
58	6-2-95	14-SB2		Φ 2			No Recovery
59	6-2-95 11ΦΦ	14-SB2 / 11.Φ - 11.5		Φ 2		Φ 1	
59	6-2-95 11ΦΦ	14-SB2 / 10.5 - 11.Φ		Φ 2			
6Φ	6-2-95 11ΦΦ	14-SB2 / 16.Φ - 16.5				Φ 1	
6Φ	6-2-95 11ΦΦ	14-SB2 / 15.5 - 16.Φ	SOIL	Φ 2	↓		
Φ 75-ΦΦ61	6-		WATER			Φ 1	Source Blank

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelan		6-2-95		ANALYSIS	See C-O-C Record 5516.
	<i>[Signature]</i>	6/3/95	1015	LAB ANALYSIS	
					Method of Shipment: FED EXP
					Airbill No.: 5962295264 Total No. of Coolers Shipped: 1



CLEAN II

CHAIN-OF-CUSTODY RECORD

Site Name: KLAS EL TORO
CTO Number: 475

Sampler's Name(s): B Condela, M Dillig
Sampler's Signature(s): B Condela, M Dillig

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchape Testing Services
Analytical Laboratory Address: 55 So Park Drive, Colchester VT
Field QC Package Number: N/A
Field Logbook/Page Number: 475-SR-042 / 444146
Date: 6-5-95

Pay Items/Analyses Required

QC Level

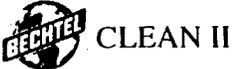
C	<input checked="" type="checkbox"/>	E
---	-------------------------------------	---

TAT (in days)

2	7	14	<input checked="" type="checkbox"/> 30
---	---	----	--

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	VOLUME	Preservation		Remarks (e.g., MS, MSD)
							Container Nos. (2 digit)		
✓ 475-4472	1414	32 SB1 / 31.4 - 36.5	SOIL	/	SS TUBIE	41			
✓ 72	1414	31.5 - 31.4		42					
✓ 73	1415	36.4 - 36.5		/		41			
✓ 73	1415	35.5 - 36.4		42					
✓ 74	1421	41.4 - 41.5		/	SS TUBIE	41			
74	1422	44.5 - 41.4	SOIL	42					NO RECORD
* 75	1434		WATER	/	WATER	41			Trip Blank
75	1434		WATER	42	WATER				Trip Blank
475-4476			WATER	/		41			Trip Blank
475-4476			WATER	42					Trip Blank

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B Condela	Maureen L.	6-5-95	14:51	ANALYSIS	See C.O.C. Record # 5519
		6-6-95	09:30		* For sample 475 - 4475 perform 24 24 ANALYSIS
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>596 2395 275</u> Total No. of Coolers Shipped: <u>1</u>



CHAIN-OF-CUSTODY RECORD

0513 006

Site Name: KRAS EL TOPC
 CTO Number: Φ 75

Sampler's Name(s): B. Condelean, H. Dalrymple
 Sampler's Signature(s): [Signatures]

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester UT
 Field QC Package Number: N/A
 Field Logbook/Page Number: Φ 75-S13-ΦΦ2/ΦΦ146
 Date: 6-5-95

Pay Items/Analyses Required

QC Level:

C	<input checked="" type="checkbox"/> B	E
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TAT (in days):

2	7	14	<input checked="" type="checkbox"/> 30
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Preservation

Container Nos. (2 digit)

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
66 1114	6-5-95	32-S12	SOIL	Φ2	SS TUBE	Φ1	
66 1114		5.5-6.0		Φ2			
67 1119		11.0-11.5		Φ2			
67 1119		10.5-11.0		Φ2			
68 1123		16.0-16.5		Φ2			
68 1123		15.5-16.0		Φ2			NO ANALYSIS
69 1347		21.0-21.5		Φ2			
69 1347		21.5-22.0		Φ2			
70 1354		26.0-26.5		Φ2			
70 1354		20.5-26.0	SOIL	Φ2	SS TUBE		
71 1404		N/A	WATER		12 Amber	Φ1	EQUIP RINSE WATER

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Condelean	[Signature]	6-5-95	1514	ANALYSIS	All samples cooled to 4°C Analyze soil sample with highest TPH for BTEX and Organic Leads. If TPH not detected in soil, then test deepest soil sample Φ 75-ΦΦ 74-01 for BTEX + Organic Lead
		6/6/95	0930		
					Method of Shipment: <u>FED EXP</u>
				Airbill No.: <u>5962295275</u>	Total No. of Coolers Shipped: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 7, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51716; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 7 and 8, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
-----------------------------------	-------------------------------------	--------------------------------

Samples Received on June 7, 1995
ETR No. 51716

075007601	259405	Water
075007602	259406	Water
075007603	259407	Water
075007604	259408	Water
075007701	259409	Water
075007702	259410	Water
075007901	259411	Soil
075007902	259412	Soil
075008001	259413	Soil
075008101	259414	Soil
075008102	259415	Soil
075008201	259416	Soil
075008202	259417	Soil
075008301	259418	Soil
075008302	259419	Soil
075008401	259420	Soil
075008402	259421	Soil
075008501	259422	Soil

Samples Received on June 8, 1995
ETR No. 51765

075008601	259901	Water
075008602	259902	Water
075008603	259903	Water
075008604	259904	Water
075008701	259905	Soil

00001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
Samples Received on June 8, 1995 ETR No. 51765 (continued)		
075008701	259905MS	Soil
075008701	259905MD	Soil
075008702	259906	Soil
075008801	259907	Soil
075008802	259908	Soil
075008901	259909	Soil
075008902	259910	Soil
075009001	259911	Soil
075009101	259912	Soil
075009201	259913	Soil
075009202	259914	Soil
075009301	259915	Soil
075009302	259916	Soil
075009401	259917	Soil
075009402	259918	Soil
075009501	259919	Water
075009502	259920	Water
075009601	259921	Soil
075009602	259922	Soil
075009701	259923	Soil
075009801	259924	Soil
075009802	259925	Soil
LCSS	259926	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL) with the exception of the CLP metals analysis which is reported by contract to the Instrument Detection Limit (IDL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used for each column and compound have been recorded on calibration summary Form 6.

Dr. Randy Jordan
July 7, 1995
Page 3

The 8020-BTEX closing calibration check standard on the June 11, 1995 analytical sequence exhibited a decreased response resulting in percent differences outside quality control criteria.

The 8020-BTEX blank spike sample labeled C2LCS was not fortified with surrogate compounds.

The 8020-BTEX analysis of sample labeled 075009801 exhibited surrogate recovery of 1-chloro-2-fluorobenzene slightly above quality control criteria on the VOCOL column. This anomaly may be related to interference from the late eluting hydrocarbon pattern observed in this sample.

Please note the use of the following additional qualifiers when reporting TPH-diesel results:

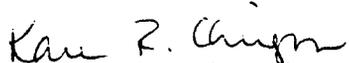
Y = A fuel mixture pattern was detected but does not fall within 90% of the calibration standard range, and does not exhibit a reasonable pattern match to any of the calibrated fuels.

Z = Unknown single peaks or chromatographic patterns have been detected but do not resemble a typical fuel pattern.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,


Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B26JUN95

00002A



CLEAN II

CHAIN-OF-CUSTODY RECORD

501
000000

Site Name: <u>MCAS BLTC</u>	Sampler's Name(s): <u>B. Conchala, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>475</u>	Sampler's Signature(s): <u>[Signature]</u>	

Analytical Laboratory Name: Increase Testing Services
 Analytical Laboratory Address: 55 South Park Drive Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 475-SB-442 / 444 147 + 148
 Date: 6-6-95

Pay Items/Analyses Required

None	HCL	None	Preservation
------	-----	------	--------------

QC Level: CORRECT E

TAT (in days):

2	7	14	30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)				Remarks (e.g., MS, MSD)
						None	HCL	None	Preservation	
475-4476	6-6-95 0855	34-SB1	WATER	Ø2	VACUINAL	Ø1	Ø2	Ø3	Ø4	Source Blank
475-4476	6-6-95 0855	34-SB1	WATER	Ø2	VACUINAL	Ø1	Ø2	Ø3	Ø4	Source Blank
77	5-31-95 1434	34-SB1	WATER	Ø2	VACUINAL	Ø1	Ø2	Ø3	Ø4	Trip Blank
77	6-6-95 0935	34-SB1	WATER	Ø2	VACUINAL	Ø1	Ø2	Ø3	Ø4	Trip Blank
78	6-6-95 0935	16Ø-6.5	SOIL	Ø2	SS Tube	Ø1	Ø2	Ø3	Ø4	
78	6-6-95 0935	15.5-6Ø	SOIL	Ø2	SS Tube	Ø1	Ø2	Ø3	Ø4	
78	6-6-95 0943	11Ø-11.5	SOIL	Ø2	SS Tube	Ø1	Ø2	Ø3	Ø4	
78	6-6-95 0943	11Ø.5-11.Ø	SOIL	Ø2	SS Tube	Ø1	Ø2	Ø3	Ø4	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>B. Conchala</u>	<u>[Signature]</u>	<u>6-6-95</u>	<u>135Ø</u>	<u>ANALYSIS</u>	All samples cooled to 40C. Analyze soil samples with highest TPH for BTEX + organo lead. If TPH not detected in soil, then test deepest soil sample 475-4485-Ø1 for BTEX + organo lead.
		<u>6/7/95</u>	<u>1000</u>	<u>LAB ANALYSIS</u>	
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>551512193</u>
					Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5522

000004

Site Name: MEAS FL TOIC
 CTO Number: 475

Sampler's Name(s): B. Candelan, M. Dalrymple
 Sampler's Signature(s): M Dalrymple B Candelan

Site Contact/Supervisor: Craig Carlson

Analytical Laboratory Name: Fuchapo Testing Services
 Analytical Laboratory Address: 55 E Park Drive Cok Westmar UT
 Field QC Package Number: USA
 Field Logbook/Page Number: 475-5B-442 / 444 147 + 148
 Date: 6-6-95

Pay Items/Analyses Required

EQ 15 (TRM-2)

QC Level: CORRECT ERROR E

TAT (in days):

2	7	14	30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Preservation		Remarks (e.g., MS, MSD)
						Container Nos. (2 digit)		
475-4421	6-6-95 4950	345B / 16.4 - 16.5	SOIL	/	41			NO RECORD
E 1	4956	21.4 - 21.5		/	41			
E 1	4956	24.5 - 21.0		42	/			
E 2	1403	26.4 - 26.5		/	41			
E 2	1403	25.5 - 26.4		42	/			SLIGHT HEAD SPACE
E 3	1414	31.0 - 31.5		/	41			
E 3	1414	30.5 - 31.0		42	/			
E 4	1417	36.0 ¹⁰⁰ - 36.4		/	41			
E 4	1417	35.5 - 36.4	SOIL	42	/			

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B Candelan		6-6-95	1350	ANALYSIS	SE C.O.C., 5521
	<i>[Signature]</i>	6/7/95	1000	US ANALYSES	
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>5571512193</u>
					Total No. of Coolers: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5524

000006

Site Name: MCAS EL TORO
CTO Number: Φ 75

Sampler's Name(s): B. Condela, M. Dalrymple
Sampler's Signature(s): B. Condela

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester VT
Field QC Package Number: N/A
Field Logbook/Page Number: Φ75-SB-ΦΦ2 / ΦΦΦ149
Date: 6-7-95

Pay Items/Analyses Required
NONE AC/SH(TPH) B Φ2Φ ORGANO LEAD

QC Level
 D E

TAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Preservation			Remarks (e.g., MS, MSD)
						NONE	HCL	NONE	
75-ΦΦE6	6-7-95 8:45	75B-SB1 / -	WATER		USA VIAL	Φ1			
E6	6-7-95 8:45	-		Φ2	USA VIAL				
E6	6-7-95 8:45	-			1L Amber	Φ3			
E6	6-7-95 8:45	-	WATER		PLASTIC	Φ4			
E7	6-7-95 10:44	6.Φ - 6.5	SOIL		SSTUBE	Φ1			
E7	6-7-95 10:44	5.5 - 6.Φ		Φ2					ARCHIVE
E8	6-7-95 10:50	11.Φ - 11.5		Φ2					ARCHIVE
E8	6-7-95 10:50	10.5 - 11.Φ		Φ2					ARCHIVE
E8	6-7-95 10:55	16.Φ - 16.5		Φ2					ARCHIVE
E8	6-7-95 10:55	15.5 - 16.Φ	SOIL	Φ2	SSTUBE				ARCHIVE

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Condela		6-7-95	1457	ANALYSIS	ALL SAMPLES COOLED TO 4°C ANALYZE SOIL SAMPLE WITH HIGHEST TPH FOR BTEX AND ORGANO LEAD. IF TPH IS NOT DETECTED IN SOIL THEN TEST DEEPEST SOIL SAMPLE, Φ75-ΦΦ94 FOR BTEX & ORGANO LEAD
		6/8/95	1000	LAB ANALYSIS	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>55115/22Φ4</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

55

2000000

Site Name: MCAS EL TOTO
 CTO Number: 075

Sampler's Name(s): B. Cundelan, M. Dalrymple
 Sampler's Signature(s): B. Cundelan

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park DR, Colchester, VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-002/000149
 Date: 6-7-95

Pay Items/Analyses Required
 NONE
 Hel
 8015H(TPH-D)
 8020

QC Level
 D E

TAT (in days)
 2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0090	6-7-95 1100	75B-SB1/210-215	SOIL	/	SS TUBE	01	
BC 90	6-7-95	75B-SB2/		02			NO RECOVERY
BC 91	6-7-95 1330	75B-SB2/7.0-7.5		/		01	
BC 91	6-7-95	75B-SB2/		02			NO RECOVERY
92	6-7-95 1330	110-11.5		/		01	
92	6-7-95 1330	110.5-11.0		02			
93	6-7-95 1420	1360-36.5		/		01	
93	6-7-95 1420	135.5-36.0		02			
94	6-7-95 1430	141.0-46.5		/		01	
94	6-7-95 1430	140.5-46.0	SOIL	02	SS TUBE		
95	6-7-95 1430	75B-SB1/TRIP BLANK	WATER	01	VDA VIAL	01	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>B. Cundelan</u>		<u>6-7-95</u>	<u>1459</u>	<u>ANALYSIS</u>	<u>SEE C.O.C SH# 5524</u>
	<u>[Signature]</u>	<u>6/8/95</u>	<u>1000</u>	<u>LAB ANALYSES</u>	
					Method of Shipment: <u>FED EX</u>
					Airbill No.: <u>55115122 04</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5520

800008

Site Name: MCAS El Toro
CTO Number: 075

Sampler's Name(s): B. Cundelan, M. Dalrymple
Sampler's Signature(s): B. Cundelan

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Dr., Colchester VT
Field QC Package Number: NA
Field Logbook/Page Number: 075-58-002/000149
Date: 6-7-95

Pay Items/Analyses Required

QC Level
 D E

TAT (in days)
2 7 14

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
						1	2	
✓ 075-0095	5/31/95 1430	Trip blank	Water	02	VOA vial			
075-0096	6-7-95 1343	75B-SB2/16.0-16.5	Soil	02	SS Tube	01		
✓ 0096	6-7-95 1343	15.5-16.0		02				
✓ 0097	6-7-95 1350	21.0-21.5				01		
BC 0097	6-7-95			02				No Recovery
✓ 0098	6-7-95 1355	26.0-26.5				01		
✓ 0098	6-7-95 1355	25.0-26.0		02				
✓ 0099	6-7-95 1415	31.0-31.5				01		
✓ 0099	6-7-95 1415	30.5-31.0		02				

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelan		6-7-95	1458	ANALYSIS	SEE C.O.C., SH# 5524
	<u>[Signature]</u>	6/8/95	1000	CAS ANALYSES	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511512204</u> Total No. Coolers: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 21, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51768; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 8, 9 and 13, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 8, 1995
ETR No. 51768

075009901	259966	Soil
075009902	259967	Soil

Samples Received on June 9, 1995
ETR No. 51769

075010001	259978	Water
075010002	259979	Water
075010101	259980	Water
075010201	259981	Soil
075010301	259982	Soil
075010302	259983	Soil
075010401	259984	Soil
075010402	259985	Soil
075010501	259986	Soil
075010502	259987	Soil
075010601	259988	Soil
075010602	259989	Soil
075010701	259990	Soil
075010801	259991	Soil
075010901	259992	Soil
075010901	259992R1	Soil
075011001	259993	Soil
075011101	259994	Soil
075011102	259995	Soil
075011201	259996	Soil
075011202	259997	Soil
075011301	259998	Soil
075011401	259999	Soil
075011402	256000	Soil

0001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
Samples Received on June 13, 1995		
ETR No. 51826		
075011501	260310	Soil
075011601	260311	Soil
075011601	260311MS	Soil
075011601	260311MD	Soil
075011602	260312	Soil
075011701	260313	Soil
075011702	260314	Soil
075011901	260315	Soil
075011902	260316	Soil
075012001	260317	Soil
075012002	260318	Soil
075012101	260319	Soil
LCSS	260320	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Two samples in this delivery group were assigned 8020-BTEX and organic lead analyses after TPH-diesel results were available. The initiation of these analyses occurred after construction of the SDG (including quality control (QC) assignments) had been completed. No other samples in the SDG had been assigned these analyses, therefore no matrix spike, matrix spike duplicate QC samples existed. Blank spike samples (LCS) have been presented for all analyses.

The TPH-diesel analysis of samples labeled 075011601MS and 075011601MSD exhibited matrix spike recovery of diesel fuel outside quality control criteria. The laboratory suspects that this anomaly was due to the relatively high concentration of diesel fuel in the sample compared to the amount spiked.

Dr. Randy Jordan
July 21, 1995
Page 3

Please note the use of the following additional qualifier when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall 90 percent within calibration standard range, or exhibit a reasonable pattern match to any of the calibrated fuels.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used for each column and compound have been hand edited on calibration summary Form 6.

Several 8020-BTEX calibration check standards exhibited percent differences outside quality control criteria. These values have been recorded on calibration check Form 7.

The original 8020-BTEX analysis of sample labeled 075010901 exhibited surrogate recoveries above quality control criteria. This sample was reanalyzed beyond the prescribed holding time yielding surrogate recoveries below control limits on the VOCOL column, and acceptable recoveries on the RTX-1 column. Samples labeled VBLKP3, VBLKR1 and D3LCS exhibited surrogate recoveries outside control criteria on the VOCOL column and acceptable recoveries on the RTX-1 analysis.

The 8020-BTEX analysis of sample labeled 075011901 occurred one day beyond the prescribed holding time. Please note that this sample was received at the laboratory nine days after its collection.

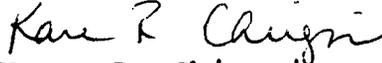
Please note the use of the following additional qualifier when reporting 8020-BTEX results:

P = Greater than 25 percent difference in calculated value was observed between two analytical columns.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,


Karen R. Chirgwin
Laboratory Operations Director

Enclosure

mmn

CHAIN-OF-CUSTODY RECORD

55

02000000

Site Name: <u>MCAS EL TORO</u>	Sampler's Name(s): <u>B. Cundelay</u>	Site Contact/Supervisor: <u>Craig Corliss</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>Brian Cundelay</u>	

Analytical Laboratory Name: Inchape Testing Service
 Analytical Laboratory Address: 55 So. Park Drive Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-003/000231
 Date: 6-8-95

Pay Items/Analyses Required

QC Level D E

TAT (in days)

2	7	14	<input checked="" type="checkbox"/>
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
						None	Preservation	
075-0106	6-8-95 1012	263-SB1/26.0-26.5	SOIL	✓	SSTUBE	01		HEAD SPACE
075-0106	1012	25.5-26.0		02				
075-0107	1018	31.0-31.5		02				NO RECOVERY
075-0108	1024	36.0-36.5		02				NO RECOVERY
075-0109	1035	41.0-41.5		02				LARGE HEAD SPACE
075-0109		263-SB1	SOIL	02	SSTUBE			NO RECOVERY
B.C.								

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelay		6-8-95	1511	ANALYSIS	SEE C.O.C. SH. 5527
		6/9/95	0930		
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5515/2215</u>
					Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

Site Name: MCAS BL TORO
CTO Number: 075

Sampler's Name(s): B. Cundelan, S. Hammett
Sampler's Signature(s): B. Cundela

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Incheape Testing Services
Analytical Laboratory Address: 55 So. Park Drive, Colchester VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-513-003 / 000 233
Date: 6-12-95

Pay Items/Analyses Required

QC Level D E

TAT (in days)

2	7	14	<input checked="" type="checkbox"/>
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Preservation

015M/TPH-D

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	NAME	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
075-0120	6-12-95 1040	263-SB3/41.0-41.5	SOIL		SS TUBE	01			
-0120	1040	40.5-41.0		02					
-0121	1050 1100	46.0-46.5				01			
-0121									NO RECOVERY
-0122									FOR GEOTECH ANALYSIS
-0122									FOR GEOTECH ANALYSIS
-0123	1105	51.0-51.5				01			LARGE HAND SPACE
-0123									NO RECOVERY
-0124	1115	56.0-56.5				01			
-0124	6-12-95 1115	55.5-56.0	SOIL	02	SS TUBE				

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelan		6-12-95	1647	ANALYSIS	SEE C.O.C. 5530
		6/13/95	0900	LAB ANALYSIS	
					Method of Shipment: <u>FED EXP</u>
					Airbill No. <u>5511512226</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5530

000000

Site Name: MCAS BL TORO
CTO Number: Ø 75

Sampler's Name(s): B. CUNDELAN
Sampler's Signature(s): _____

Site Contact/Supervisor: CRAIG CARLISLE

Analytical Laboratory Name: Truchape Testing Service
Analytical Laboratory Address: 55 So. Park Drive, Colchester UT
Field QC Package Number: N/A
Field Logbook/Page Number: Ø75-SB-ØØ3 / ØØØ233
Date: ~~6-6-95~~ 6-12-95

Pay Items/Analyses Required	
NAME	TPH-D
HCL	ØØ2Ø
Preservation	
Container Nos. (2 digit)	

QC Level
 G D E

TAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Ø75-Ø15	6-12-95 Ø92Ø	263-SB3/11.Ø-11.5	SOIL	Ø2	SS TUBE	Ø1	HEAD SPACE
Ø115							NO RECOVERY
Ø116	6-12-95 Ø925	21.Ø - 26.5		Ø2		Ø1	
Ø116	Ø925	2Ø.5 - 21.Ø		Ø2		Ø1	
Ø117	Ø935	31.Ø - 31.5		Ø2		Ø1	
Ø117	Ø935	3Ø.5 - 31.Ø		Ø2		Ø1	HEAD SPACE
Ø118	Ø935			Ø2		Ø1	FOR GEOTECH ANALYSIS
Ø118	Ø935		SOIL	Ø2	SS TUBE	Ø1	FOR GEOTECH ANALYSIS
Ø119	5-31-95 143Ø		WATER	Ø2	WØ TUBE	Ø1	
Ø119			WATER	Ø2	WØ TUBE	Ø1	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelan		6-12-95	1647	ANALYSIS	ALL SAMPLES COOLED TO 40C
		6/13/95	0900	LAB ANALYSIS	Analyze Soil Sample with Highest TPH for BTEX and Organo Lead. IF TPH Not Detected in Soil Then Test Deepest Soil Sample Ø75-Ø129, For BTEX + Organo Lead
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511512226</u> Total No. of Coolers: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 20, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51831; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 13, 14 and 15, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 13, 1995
ETR No. 51831

075012301	260353	Soil
075012401	260354	Soil
075012402	260355	Soil
075012601	260356	Soil
075012602	260357	Soil
075012701	260358	Soil
075012702	260359	Soil
075012901	260360	Soil

Samples Received on June 14, 1995
ETR No. 51873

075013001	260839	Water
075013002	260840	Water
075013003	260841	Water
075013101	260842	Water
075013102	260843	Water
075013201	260844	Soil
075013301	260845	Soil
075013302	260846	Soil
075013401	260847	Soil
075013402	260848	Soil
075013501	260849	Soil
075013502	260850	Soil
075013601	260851	Soil
075013602	260852	Soil
075013702	260853	Soil

0001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 14, 1995
ETR No. 51873 (continued)

075013801	260854	Soil
075013802	260855	Soil
075013901	260856	Soil
075013902	260857	Soil
075014001	260858	Soil
075014002	260859	Soil
075014101	260860	Soil
075014102	260861	Soil
075014201	260862	Soil
075014202	260863	Soil

Samples Received on June 15, 1995
ETR No. 51926

075014301	261148	Water
075014302	261149	Water
075014401	261150	Soil
075014501	261151	Soil
075014501	261151MS	Soil
075014501	261151MD	Soil
075014502	261152	Soil
075014601	261153	Soil
075014602	261154	Soil
LCSS	261155	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Please note the use of the following additional qualifiers when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall 90 percent within calibration standard range, or exhibit a reasonable pattern match to any of the calibrated fuels.

Z = Unknown single peaks or chromatographic patterns have been detected but do not resemble a typical fuel pattern.

One soil sample in this delivery group was assigned 8020-BTEX and organic lead analyses after TPH-diesel results were available. The initiation of this analysis occurred after construction of the SDG (including quality control (QC) assignments) had been completed. No other solid samples in the SDG had been assigned these analyses, therefore no matrix spike or matrix spike duplicate QC samples existed. Blank spike samples (LCS) have been presented for all analyses.

The 8020-BTEX analysis of samples labeled VBLKP3, 075013301 and D3-LCS exhibited surrogate recovery of 1-chloro-2-fluorobenzene above quality control criteria on one of the two analytical columns.

Please note that sample labeled 075014301 was received (and subsequently analyzed) beyond the prescribed holding time for 8020-BTEX.

Please note that the 8020-BTEX analysis of blank spike sample labeled C1-LCS was not fortified with surrogate compounds. Blank spikes D2-LCS and D3-LCS were spiked appropriately.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

Dr. Randy Jordan
July 20, 1995
Page 4

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,


Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B26JUN95

0002B



CHAIN-OF-CUSTODY RECORD

5537
1000

Site Name: <u>HCAS BELTORO</u>	Sampler's Name(s): <u>B. Cundelaw / S. Hammett</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>Φ 75</u>	Sampler's Signature(s): <u>B. Cundelaw</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: Φ 75-SB-ΦΦ3 / ΦΦΦ 234
 Date: 6-12-95

Pay Items/Analyses Required

None	Preservation
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Φ 15 (TPH-D)

QC Level
 A B C D E

TAT (in days)

2	7	14	30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Φ 75-Φ 125	6-12-95						FOR GEOTECH ANALYSIS
Φ 125							FOR GEOTECH ANALYSIS
Φ 126	6-12-95 1136	263-SB3/61Φ-61.5	SOIL	Φ 1	SSTUBE	Φ 1	
Φ 126	1136	6Φ.5-61.Φ	SOIL	Φ 2			
Φ 127	142Φ	66Φ-66.5	SOIL	Φ 1			
Φ 127	142Φ	65.5-66Φ	SOIL	Φ 2			
Φ 128							FOR GEOTECH ANALYSIS
Φ 128							FOR GEOTECH ANALYSIS
Φ 129	1455	71.Φ-71.5	SOIL	Φ 1	SSTUBE	Φ 1	
Φ 129							NO RECOVERY

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelaw		6-12-95	1647	ANALYSIS	SEE C.O.C. 553Φ
		6/13/95	0900	LAB ANALYSIS	
Method of Shipment: <u>FED EXP</u>					Total No. of Coolers Shipped: <u>1</u>
Airbill No.: <u>5511572226</u>					



CLEAN II

COPY - ORIGINAL ON FILE

SDG #

51768 ETR # 51826

CHAIN-OF-CUSTODY RECORD

553

000007

Site Name: MCAS BL TORO
CTO Number: Φ75

Sampler's Name(s): B. Cundelan, S. Hammett
Sampler's Signature(s): B. Cundelan

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Incheape Testing Services
Analytical Laboratory Address: 55 So. Park Drive, Colchester VT
Field QC Package Number: N/A
Field Logbook/Page Number: Φ75-513-ΦΦ3 / ΦΦΦ 233
Date: 6-12-95

Pay Items/Analyses Required	
<u>NONE</u>	<u>80LSH(TPH-D)</u>
	Preservation

QC Level
 D E

TAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
<u>Φ75-Φ12Φ</u>	<u>6-12-95 1Φ4Φ</u>	<u>263-SB3/41.Φ-41.5</u>	<u>SOIL</u>	<u>Φ2</u>	<u>SS TUBE</u>	<u>Φ1</u>	
<u>-Φ12Φ</u>	<u>1Φ4Φ</u>	<u>40.5-46Φ</u>		<u>Φ2</u>			
<u>-Φ121</u>	<u>1Φ5Φ 71ΦΦBe</u>	<u>46Φ-46.5</u>				<u>Φ1</u>	
<u>-Φ121</u>							<u>NO RECOVERY FOR GASTECH ANALYSIS</u>
<u>-Φ122</u>							<u>FOR GASTECH ANALYSIS</u>
<u>-Φ122</u>							
<u>-Φ123</u>	<u>11Φ5</u>	<u>51.Φ-51.5</u>				<u>Φ1</u>	<u>LARGE HAND SPACE</u>
<u>-Φ123</u>							<u>NO RECOVERY</u>
<u>-Φ124</u>	<u>1115</u>	<u>56.Φ-56.5</u>				<u>Φ1</u>	
<u>-Φ124</u>	<u>6-12-95 1115</u>	<u>55.5-56Φ</u>	<u>SOIL</u>	<u>Φ2</u>	<u>SS TUBE</u>		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>B. Cundelan</u>		<u>6-12-95</u>	<u>1647</u>	<u>ANALYSIS</u>	<u>SEE C.O.C. 553Φ</u>
	<u>[Signature]</u>	<u>6/13/95</u>	<u>0900</u>	<u>LAB ANALYSES</u>	
					Method of Shipment: <u>FED EXP</u>
					Airbill No. <u>5511512226</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5523
000005

Site Name: <u>MCAS EITRO</u>	Sampler's Name(s): <u>B. Coudelan, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): _____	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park Dr., Colchester, VT 05446
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-003/000235-236
 Date: 6-13-95

Pay Items/Analyses Required

QC Level	<input checked="" type="checkbox"/> D	<input type="checkbox"/> E		
TAT (in days)	<input type="checkbox"/> 2	<input type="checkbox"/> 7	<input type="checkbox"/> 14	<input checked="" type="checkbox"/> 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Preservation		Remarks (e.g., MS, MSD)
						Container Nos. (2 digit)		
0750130	6-13-95 1100	272-SB1 / EQUIP. RINSATE	WATER	02	VOA VIAL	01		
0750131	6-9-95 0900	272-SB1 / TRIP BLANK	"	02	12 Amber	03		
0750132	6-13-95 1137	272-SB1 / 6.0-6.5	SOIL	02	SS Tube	01		NO RECOVERY
0750133	6-13-95 1142	11.0-11.5		02		01		
0750134	6-13-95 1146	16.0-16.5		02		01		
		15.5-16.0		02				

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Coudelan		6-13-95	1522	ANALYSIS	All samples cooled to 4°C. Analyze soil sample with highest TPH for BTEX and organolead. If TPH not detected in soil samples, then analyze <u>075-014201</u> for BTEX & orgLead.
		6/14/95	0930	IAS ANALYSIS	
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>5511512230</u> Total No. Coolers: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

9000006

Site Name: MCA's EL TORD
CTO Number: Φ 75

Sampler's Name(s): B. CUNDOLAN, M. DALRYMPLE
Sampler's Signature(s): _____

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inhance Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester VT
Field QC Package Number: H/A
Field Logbook/Page Number: Φ75-SB-ΦΦ3 / ΦΦΦ 236
Date: 6-13-95

Pay Items/Analyses Required

QC Level: D E

TAT (in days):

2	7	14	30
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Preservation

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Φ75-Φ140	6-13-95 1358	272-SB1/460-46.5	SOIL	Φ2	SS TUBE	Φ1	
140	1358	45.5 - 46.0	SOIL	Φ2	SS TUBE	Φ1	
141	1427	56.0 - 56.5	SOIL	Φ2	SS TUBE	Φ1	
141	1427	55.5 56.0	SOIL	Φ2	SS TUBE	Φ1	
142	1452	61.0 - 61.5	SOIL	Φ2	SS TUBE	Φ1	
142	1452	60.5 - 61.0	SOIL	Φ2	SS TUBE	Φ1	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundolan	<u>[Signature]</u>	6-13-95	1522	ANALYSES	SEC. O.C. Record 5533
		6/14/95	0930	UPB ANALYSES	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>55115/223 Φ</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

5534

CHAIN-OF-CUSTODY RECORD

2000001

Site Name: MCAS El Toro
CTO Number: Ø75

Sampler's Name(s): B. Condelan, M. Dalrymple
Sampler's Signature(s): _____

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Service
Analytical Laboratory Address: 55 S. Park DR., Colchester VT 05446
Field QC Package Number: NA
Field Logbook/Page Number: Ø75-SB-ØØ3 / ØØØ235-236
Date: 6-13-95

Pay Items/Analyses Required

QC Level
 C D E

TAT (in days)
2 7 14 30

NONE	Preservation	
	Container Nos. (2 digit)	

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Remarks (e.g., MS, MSD)
Ø75Ø135	6-13-95 1154	272-SB1 / 21.Ø-21.5	SOIL	/	SS Tube Ø1	
↓	↓1154	20.5-21.Ø		Ø2		
Ø75Ø136	6-13-95 12Ø9	26.Ø-26.5		/	Ø1	
↓	↓12Ø9	25.5 26.Ø		Ø2		
Ø75Ø137	6-13-95			/	Ø1	NO RECOVERY
↓	↓1215	3Ø.5-31.Ø		Ø2	Ø2	ANALYZE
Ø75Ø138	6-13-95 1221	36.Ø-36.5		/	Ø1	
↓	↓1221	35.5-36.Ø		Ø2		
Ø75Ø139	6-13-95 122Ø	41.Ø 41.5		/	Ø1	
↓	↓122Ø	4Ø.5-41.Ø		Ø2		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Condelan		6-13-95	1522	ANALYSIS	see C-O-C Record 5533
	<i>[Signature]</i>	6/14/95	1930	LAB ANALYSIS	
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>551151223Ø</u> Total No. of Coolers Shipped: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 18, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51928; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 15 and 17, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 15, 1995
ETR No. 51928

075014701	261170	Soil
075014701	261170R1	Soil
075014702	261171	Soil

Samples Received on June 17, 1995
ETR No. 51956

075014801	261564	Water
075014901	261565	Water
075014902	261566	Water
075015001	261567	Soil
075015001	261567MS	Soil
075015001	261567MD	Soil
075015101	261568	Soil
075015102	261569	Soil
075015201	261570	Soil
075015301	261571	Soil
075015401	261572	Soil
075015501	261573	Soil
075015601	261574	Soil
075015602	261575	Soil
075015701	261576	Soil
075015702	261577	Soil
075015801	261578	Soil
075015802	261579	Soil
075015901	261580	Soil
075015902	261581	Soil
075016001	261582	Soil

<u>Client Sample ID</u>	<u>Laboratory Lab No.</u>	<u>Sample Matrix</u>
Samples Received on June 17, 1995 ETR No. 51956 (continued)		
075016002	261583	Soil
075016101	261584	Soil
075016102	261585	Soil
075016201	261586	Soil
075016202	261587	Soil
075016301	261588	Soil
075016302	261589	Soil
075016401	261590	Soil
075016402	261591	Soil
075016501	261592	Soil
075016502	261593	Soil
075016601	261594	Soil
075016602	261595	Soil
075016701	261596	Soil
075016702	261597	Soil
LCSS	261598	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Two samples in this delivery group were assigned 8020-BTEX and organic lead analyses after TPH-diesel results were available. The initiation of these analyses occurred after construction of the SDG (including quality control (QC) assignments) had been completed. No other samples in the SDG had been assigned these analyses, therefore no matrix spike, matrix spike duplicate QC samples existed. Blank spike samples (LCS) have been presented for all analyses.

The original diluted 8020-BTEX analysis of sample labeled 075014701 exhibited hydrocarbon patterns but no reportable target analytes. This sample was reanalyzed beyond the prescribed holding time at full concentration. The laboratory suspects that the hydrocarbons present in the initial analysis were due to column carry-over from a previous injection. Both sets of data have been presented in this case submittal.

Dr. Randy Jordan
July 18, 1995
Page 3

The 8020-BTEX analysis of several samples in this delivery group exhibited surrogate recoveries on one analytical column outside quality control criteria. The high response of 1-chloro-2-fluorobenzene may be due to interference from the hydrocarbon patterns present in these samples.

The 8020-BTEX analysis of sample labeled 075015601 occurred one day beyond the prescribed holding time. The laboratory initiated this analysis after completing the TPH-diesel analyses of all samples received in this batch.

Please note the use of the following additional qualifier when reporting 8020-BTEX results:

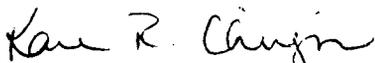
P = Greater than 25 percent difference in calculated value was observed between two analytical columns.

The TPH-diesel analysis of samples 075015001MS and 075015001MSD exhibited matrix spike concentrations of diesel fuel above calibration range. Recoveries for these spike values were acceptable due to the presence of diesel fuel in parent sample 075015001.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,

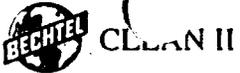

Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B10JUL95

0002A



CHAIN-OF-CUSTODY RECORD

Site Name: MCAS B L TORO
CTO Number: Φ 75

Sampler's Name(s): B. Condelean, S. Hammett
Sampler's Signature(s): _____

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester VT
Field QC Package Number: H/A
Field Logbook/Page Number: Φ 75-SB-Φ 3 / Φ Φ Φ 237
Date: 6-14-95

NOTE	HELD	Pay Items/Analyses Required
Φ 1515 (TPH-D)	Φ 20	
Φ 20		

QC Level
 D E

TAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
Φ 75-Φ 143	5-22-95 1030	306-SB-1 306	WATER	/	VOR VIAL	Φ 1	Trip BLANK
- 143	1030	306	WATER	Φ 2	VOR VIAL		Trip BLANK
- 144	6-14-95 1205	306-SB-2/BC 60-6.5	SOIL	/	SS TUBE	Φ 1	
- 144				Φ 2			No RBC CUBEN
- 145	1212	11.0-11.5		/		Φ 1	
- 145	1212	10.5-11.0		Φ 2			
- 146	1225	16.0-16.5		/		Φ 1	
- 146	1225	15.5-16.0		Φ 2			
- 147	1239	21.0-21.5		/		Φ 1	
- 147	6-14-95 1239	20.5-21.0	SOIL	Φ 2	SSTUBE		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B Condelean		6-14-95	1420	ANALYSIS	ALL SAMPLES ARE COOLED TO 4°C ANALYZE SOIL SAMPLE WITH HIGHEST TPH FOR BTX + ORGANO LEAD. IF NOT DETECTED IN SOIL SAMPLE, THEN ANALYZE Φ 75-Φ 147 FOR BTX AND ORGANO LEAD.
		6/15/95	1000	ANALYSIS	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5962295286</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

5537

000004

Site Name: <u>MCAS EL TOPO</u>	Sampler's Name(s): <u>B. Cundelan, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): _____	

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-003 / 000 230
 Date: 6-15-95

Pay Items/Analyses Required

NONE	HCL	SP/SM (TPH-D)	SP/SP	Preservation				QC Level
								<input checked="" type="checkbox"/> G <input type="checkbox"/> D <input type="checkbox"/> E
							TAT (in days)	
							2 7 14 30	

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0148	6-15-95 0855	364A-SB1	WATER	/	1L Amber	01	EQUIP RINSEATE BLANK
-0149	6-9-95 0900	364A	WATER	/	VORVIAL	01	TRIP BLANK
149	6-9-95 0900	364A	WATER	02	VORVIAL		TRIP BLANK
150	6-15-95 0920	36A-SB1/5.5-6.0	SOIL	/	SS TUBE	01	
150				02			NO RECOVERY
151	6-15-95 0926	11.0 - 11.5		/		01	
151	6-15-95 0926	10.5 - 11.0		02			NO HAD RECOVERY
152	6-15-95 0934	16.0 - 16.5		/		01	
152	0930	15.5 - 16.0		02			NO RECOVERY
153	6-15-95 0940	21.0 - 21.5		/		01	
153	0940	20.5 - 21.0	SOIL	02	SS TUBE		NO RECOVERY

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
M. Dalrymple	<i>[Signature]</i>	6-15-95	1630	Analysis	ALL SAMPLES COOLED TO 40C ANALYZE SOIL SAMPLE WITH HIGH TPH FOR BTX + ORGANO LEAD. IF NOT DETECTED IN SOIL SAMPLE, THEN ANALYZE 075-169-01 FOR BTX + ORGANO LEAD.
	<i>[Signature]</i>	6/17/95	1145		Method of Shipment: <u>RED BXD</u> Airbill No.: <u>5511512241</u> Total No. of Coolers Shipped: <u>1</u>

CHAIN-OF-CUSTODY RECORD

55

000005

Site Name: MCAS EL TORO
 CTO Number: Φ75

Sampler's Name(s): B. CONDELAN, MDALRYMPLE
 Sampler's Signature(s): _____

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: Φ75-SB-ΦΦ3/ΦΦΦ238
 Date: 6-15-95

Pay Items/Analyses Required

8015M(TPH-D)		Preservation	
		Container Nos. (2 digit)	

QC Level:
 D E

TAT (in days)

2	7	14	30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
✓ Φ75-Φ154	6-15-95 1015	364A-SB1/260-26.5	SOIL	/	SSTUBE	Φ1	
154	↓	25.5-26.0	/	Φ2	/		no recovery
✓ 155	6-15-95 1022	31.0-31.5	/	Φ2	Φ1		
155	↓	30.5-31.0	/	Φ2	/		No Recovery
✓ 156	6-15-95 1027	36.0-36.5	/	Φ2	Φ1		
✓ Φ75-Φ156	↓	35.5-36.0	/	Φ2	/		
157	6-15-95 1036	41.0-41.5	↓	/	Φ1		
157	↓	40.5-41.0	SOIL	Φ2	SSTUBE	/	
✓ 158	6-15-95 1052	46.0-46.5	↓	/	Φ1		
✓ 158	↓	45.5-46.0	↓	Φ2	↓		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
M. Dalrymple	<i>[Signature]</i>	6-15-95	1630	Analysis	SEE C.O.C. 5537
	<i>[Signature]</i>	6/17/95	1145		
					Method of Shipment: FED BYD
					Airbill No.: 5511572241 Total No. of Coolers Shipped: 1



CLEAN II

CHAIN-OF-CUSTODY RECORD

000000

Site Name: MCAS EITORO Sampler's Name(s): M. Dalrymple Site Contact/Supervisor: Craig Carlisle
 CTO Number: 075 Sampler's Signature(s): M. Dalrymple

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park DR., Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-003/000239
 Date: 6-15-95

Pay Items/Analyses Required

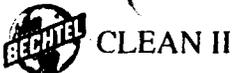
none	0015M																		
------	-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

QC Level: C D E

TAT (in days): 2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)										Remarks (e.g., MS, MSD)				
						01	02	03	04	05	06	07	08	09	10					
075-0159	6-15-95 1100	364A-SB1/51.0-51.5	SOIL	/	SS Tube	01														
↓	↓	/ 50.5-51.0			02															
075-0160	6-15-95 1108	/ 56.0-56.5				01														
↓	↓	/ 55.5-56.0			02															
075-0161	6-15-95 1119	/ 60.5-61.0				02 nd													Analyze 02	
↓	↓	/ 61.0-61.5			01														Archive 01	
075-0162	6-15-95 1133	/ 66.0-66.5				01														
↓	↓	/ 65.5-66.0			02															
075-0163	6-15-95 1141	/ 71.0-71.5				01														
↓	↓	↓ / 70.5-71.0	SOIL	02	SS TUBE															

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
M. Dalrymple	<i>[Signature]</i>	6-15-95	1630	Analysis	see C.O.C 5537
	<i>[Signature]</i>	6/17/95	1145		
					Method of Shipment: <u>FedEx</u>
					Airbill No.: <u>5511512241</u> Total No. of Coolers Shipped: _____



CHAIN-OF-CUSTODY RECORD

55

000000

Site Name: <u>MCAS El TORO</u>	Sampler's Name(s): <u>M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>M. Dalrymple</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park Dr Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-5B-003 / 000239
 Date: 6-15-95

Pay Items/Analyses Required

NONE	8015M	Preservation	QC Level			
			<input checked="" type="checkbox"/> D	<input type="checkbox"/> E	<input type="checkbox"/>	
			TAT (in days)			
			2	7	14	<input checked="" type="checkbox"/> 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)										Remarks (e.g., MS, MSD)				
0750164	6-15-95 1425	364A-5B1 / 76.0-76.5	SOIL	/	SSTube	01														
↓	↓	/ 75.5-76.0		02																
0750165	6-15-95 1432	/ 81.0-81.5		/		01														
↓	↓	/ 80.5-81.0		02																
0750166	6-15-95 1440 AD	/ 86.0-86.5		/		01														
↓	↓	/ 85.5-86.0		02																
0750167	6-15-95 1459	/ 91.0-91.5		/		01														
↓	↓	/ 90.5-91.0		02																
0750168	6-15-95 1515	/ 96.0-96.5		/		01														
↓	↓	↓ / 95.5-96.0	↓	02	↓															

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
M. Dalrymple	<i>[Signature]</i>	6-15-95	1630	Analysis	See COC 5537
	<i>[Signature]</i>	6/17/95	1145		
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>5511512241</u> Total No. of Coolers Shipped: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

July 24, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 51957; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 17, 20, 21 and 23, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 17, 1995
ETR No. 51957

075016801	261599	Soil
075016802	261600	Soil
075016901	261601	Soil
075016902	261602	Soil

Samples Received on June 20, 1995
ETR No. 51976

075017001	261687	Water
075017002	261688	Water
075017101	261689	Soil
075017101	261689MS	Soil
075017101	261689DP	Soil
075017102	261690	Soil
075017201	261691	Soil
075017202	261692	Soil
075017301	261693	Soil
075017302	261694	Soil
075017401	261694	Soil
075017402	261695	Soil
075017501	261696	Soil
075017502	261697	Soil
075017601	261698	Soil
075017701	261700	Soil
075017702	261701	Soil
075017801	261702	Soil
075017802	261703	Soil

0001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on June 21, 1995
ETR No. 51992

075017901	261783	Soil
075017901	261783R1	Soil
075018001	261784	Soil
075018201	261785	Soil
075018301	261786	Soil
075018401	261788	Soil
075018402	261788	Soil
075018501	261790	Soil
075018502	261791	Soil
075018701	261792	Water
075018702	261793	Water
075018801	261794	Water
075018802	261795	Water
075018802	261795MS	Water
075018802	261795DP	Water
075018803	261796	Water
075018804	261797	Water
075018902	261798	Soil
075018902	261798MS	Soil
075018902	261798MD	Soil
LCSS	261799	Solid

Sample Received on June 23, 1995
ETR No. 52045

075019001	262068	Water
075019002	262069	Water
075019101	262070	Water
075019102	262071	Water
075019201	262072	Water
075019202	262073	Water
075019202	262073MS	Water
075019202	262073DP	Water
LCSS	262074	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Dr. Randy Jordan
July 24, 1995
Page 3

The TKN analysis of sample 075019202 was conducted in duplicate to satisfy quality control criteria. This sample appeared to be non-homogeneous, resulting in percent RPD above quality control criteria.

Two samples in this delivery group were assigned 8020-BTEX analysis after TPH-diesel results were available. The initiation of these analyses occurred after construction of the SDG (including quality control (QC) assignments) had been completed. No other samples in the SDG had been assigned BTEX analysis, therefore no matrix spike, matrix spike duplicate QC samples existed. Blank spike samples (LCS) have been presented for all analyses.

Please note the use of the following additional qualifier when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall 90 percent within calibration standard range, or exhibit a reasonable pattern match to any of the calibrated fuels.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factor used for each column and compound have been recorded on calibration summary Form 6.

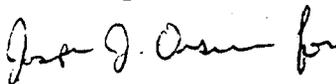
The original medium level 8020-BTEX analysis of samples labeled 075017901 and VBLKR1 exhibited surrogate recoveries below quality control criteria. These samples were reanalyzed beyond the prescribed holding time using low level methodology yielding acceptable results. Both sets of data have been presented in this case submittal.

The 8020-BTEX analysis of samples labeled VBLKQ7 and 075017101 exhibited surrogate recoveries slightly below quality control criteria.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

Enclosure

0002A



CLEAN II

CHAIN-OF-CUSTODY RECORD

Site Name: MCAS EITORD
 CTO Number: 075

Sampler's Name(s): B. Cundelau, S. Hammer
 Sampler's Signature(s): B. Cundelau, S. Hammer

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park DR, Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-004 / 000321
 Date: 6-19-95

Pay Items/Analyses Required

QC Level: D E

TAT (in days): 2 7 14 30

001515M(TPHD)
00220

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
						None	HCL	
0750170	6-09-95 0900	443-SB1 / TRUP Blank	WATER	/	VOA vial	01		
↓	6-09-95 0900	↓ / ↓	↓	02	↓			
0750171	6-19-95 1035	443-SB1 / ^{6.5} 11.0-11.5	SOIL	/	SS tube	01		
↓	6-19-95 1035	↓ / ^{5.5} 10.5-11.0	↓	02	↓			
0750172	6-19-95 1040	11.0-11.5		/		01		
↓	6-19-95 1040	11.0-11.5		02				
0750173	6-19-95 1046	16.0-16.5		/		01		
↓	6-19-95 1046	15.5-16.0		02				HEAD SPACE
0750174	6-19-95 1050	21.0-21.5		/		01		
↓	6-19-95 1050	20.5-21.0	SOIL	02	SS tube			

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundelau		6-19-95	1500	AWAYERS	All samples cooled to 4°C
	<i>[Signature]</i>	6/20/95	0930	ANALYSES	Analyze soil sample with highest TPH for BTEX and organolead. IF TPH not detected in soil samples, analyze sample 075-0170 for BTEX + organolead.
					Method of Shipment: Fed Ex
					Airbill No.: 59622952 90
					Total No. of Coolers Shipped: 1



CHAIN-OF-CUSTODY RECORD

8686/7 no 6/19/95

Site Name: <u>MCAS El Toro</u>	Sampler's Name(s): <u>B. CUDDELAN, S. HAMMILL</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>Ø75</u>	Sampler's Signature(s): <u>B. Cuddehan, S. Hammill</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park DR., Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: Ø75-SB-ØØ4 / ØØØ321
 Date: 6-19-95

Pay Items/Analyses Required

QC Level	<input checked="" type="checkbox"/> C	<input type="checkbox"/> D	<input type="checkbox"/> E	
TAT (in days)	<input type="checkbox"/> 2	<input type="checkbox"/> 7	<input type="checkbox"/> 14	<input checked="" type="checkbox"/> 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	NONE		Remarks (e.g., MS, MSD)
						8015M (PH-D)	Preservation	
						Container Nos. (2 digit)		
Ø75Ø175	6-19-95 1054	443-SB1 / 26.Ø 26.5	SOIL	/	SS Tube	Ø1		
↓	↓ 1139	128.5-26.0		Ø2				
300 Ø75Ø176	6-19-95 113Ø	131.Ø-31.5		/		Ø1		Hold SPACE
↓	↓ 113Ø	13Ø.5 31.Ø		Ø2				NO RECORD
Ø75Ø177	6-19-95 1139L	136.Ø-36.5		/		Ø1		
↓	↓ 1139	135.5-36.Ø		Ø2				
Ø75Ø178	6-19-95 1147L	141.Ø-41.5	↓	/		Ø1		
↓	↓ 1147	14Ø.5-41.Ø	SOIL	Ø2	SS Tube			

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cuddehan		6-19-95	15ØØ	ANALYSIS	see C.O.C. 8686
	<u>[Signature]</u>	6/20/95	Ø93Ø	ANALYSIS	
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>596229529Ø</u>
					Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

MO 0119195
CRAIG CARLISLE

Site Name: MCAS ELTCRC
CTO Number: 075

Sampler's Name(s): B. Condeala, S. Hammett
Sampler's Signature(s): B. Condeala

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: INTEGRATE Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-SB-004 / 000 322
Date: 6-20-95

Pay Items/Analyses Required	
None	Preservation

QC Level
 D E

TAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0179	6-20-95 1010	451-SB1/6.0 - 6.5	SOIL	Φ2	SS TUBE	01	HEAD SPACE
179	1010	5.5 - 6.0		Φ2			NO RECOVERY
180	1018	11.0 - 11.5		Φ2			NO RECOVERY
180	1018	10.5 - 11.0		Φ2			NO RECOVERY
181	1026	16.0 - 16.5		Φ2			NO RECOVERY
181	1026	15.5 - 16.0		Φ2			NO RECOVERY
182	1035	17.5 - 18.0		Φ2			HEAD SPACE
182	1035	17.0 - 17.5		Φ2			NO RECOVERY
183	1047	BC 20.0 21.5		Φ2			HEAD SPACE
183	1047	20.5 - 21.0	SOIL	Φ2	SS TUBE		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions: All Samples Cooled to 4°C
B. Condeala		6-20-95	1301	ANALYSIS	ANALYZE SOIL SAMPLES FOR BTEX + ORGANOLEADS
		6/21/95	0930	ANALYSIS	IF TPH IS NOT [WITH HIGHEST TPH] DETECTED IN SOIL SAMPLES, THEN ANALYZE SAMPLES FOR BTEX + ORGANOLEADS
					Method of Shipment: <u>FED EX</u>
					Airbill No.: <u>5511512252</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

2588

26

Site Name: MCAS EL TORO
CTO Number: 075

Sampler's Name(s): B. Condeala, S. Hammett
Sampler's Signature(s): B. Condeala

Site Contact/Supervisor:
Craig Carlusio

Analytical Laboratory Name: Envicape Testing Services
Analytical Laboratory Address: 55 So. Park Drive, Colchester VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-SB-004 / 000322 + 000323
Date: 6-20-95

Pay Items/Analyses Required

NAME	ANALYSIS	ORGANIC LEAD
MC	0024	

QC Level: D E

TAT (in days):

2	7	14	30
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Preservation:

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	NAME	ANALYSIS	ORGANIC LEAD	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0184	6-20-95 1124	451-SB1/26.0-26.5	SOIL	/	SSTUBE	01	/	/		
184	1124	25.5-26.0		02		/	/			
185	1131	31.0-31.5		/		01	/			
185	1131	30.5-31.0		02		/	/			
186	1140	36.0-36.5		/		01	/			NO RECOVERY
186	1140	35.5-36.0	SOIL	02	SSTUBE	/	/			NO RECOVERY
187	6-9-95 0900	451-SB1	WATER	/	VIAL	01	/			TRIP BLANK
187	6-9-95 0900	451-SB1	WATER	02	VIAL	/	/			TRIP BLANK
188	6-20-95 1200	451-SB1	WATER	/	LEATHER	01	/			EQUIP. RINSEATE BLANK
188	1200			/	PLASTIC	/	/	02		
188	1200		WATER	/	VIAL	03	/			

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Condeala		6-20-95	1301	ANALYSIS	SEE C.O.C. EEEE
	A. L. /	6/20/95	0930	ANALYSIS	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511512252</u> Total No. of Coolers: <u>1</u>



CHAIN-OF-CUSTODY RECORD

8692

000021

Site Name: <u>MCAS El TORO</u>	Sampler's Name(s): <u>B. Cundelan, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>M. Dalrymple</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park Dr., Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-004
 Date: 6-21-95 to 6-22-95

Pay Items/Analyses Required

8015M (TPH)	8240 (VOCs)	353.3 (TKN)	365.2	9060	9045	8240 (Inchcape)
NONE	NONE	NONE	NONE	NONE	NONE	HCL

QC Level: D E

TAT (in days):

2	7	14	<input checked="" type="checkbox"/> 30
---	---	----	--

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)							Remarks (e.g., MS, MSD)
						NONE	NONE	NONE	NONE	NONE	NONE	HCL	
075-0190	6-21-95 0900	390B-SB1 / Trip blank	WATER		VOA vial	/	/	/	/	/	/	01	
075-0191	6-21-95 1232	390B-SB1 / 6.0-6.5	SOIL		SSTUBE	01	/	/	/	/	/	/	
075-0192	6-21-95 1412	11.0-11.5				01	/	/	/	/	/	/	HEAD SPACE
075-0194	6-21-95 1428	16.0-16.5				01	/	/	/	/	/	/	
075-0195	6-21-95 1448	20.5-21.0 - BC				02	02	02	02	02	02	02	Archive 02
075-0195	6-21-95 1448	21.0-21.5 - BC				02	02	02	02	02	02	02	HEAD SPACE 02 for 8015M
075-0195	6-21-95 1448	21.0-21.5 - BC				02	02	02	02	02	02	02	Head Space 01

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
<u>M. Dalrymple</u>	<u>[Signature]</u>	6-22-95	1530	Analysis	All samples cooled to 4°C
		6/23/95	0930	ANALYSES	NOTE: CAC Records 8692 and 8693 missing. Analyze soil sample with highest TPH for organolead. If all soil samples ND for TPH, analyze sample 075-0203-01 for organolead.
					Method of Shipment: Fed Ex
					Airbill No.: 5511512344 Total No. of Coolers Sp: 1



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

August 1, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 52049; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 23, 24 and 29, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
-----------------------------------	-------------------------------------	--------------------------------

Samples Received on June 23, 1995
ETR No. 52049

075019401	262076	Soil
075019402	262077	Soil
075019501	262078	Soil
075019502	262079	Soil
075019701	262080	Soil
075019702	262081	Soil
075019702	262081MS	Soil
075019702	262081MD	Soil
075019801	262082	Soil
075019802	262083	Soil
075020001	262084	Soil
075020002	262085	Soil
075020101	262086	Soil
075020102	262087	Soil
075020301	262088	Soil
075020302	262089	Soil

Samples Received on June 24, 1995
ETR No. 52063

075020501	262172	Soil
075020501	262172MS	Soil
075020501	262172MD	Soil
075020502	262173	Soil
075020701	262174	Soil
075020701	262174MS	Soil
075020701	262174DP	Soil
075020702	262175	Soil

<u>Client Sample ID</u>	<u>Laboratory Lab No.</u>	<u>Sample Matrix</u>
Samples Received on June 24, 1995 ETR No. 52063 (continued)		
075020901	262176	Soil
075020902	262177	Soil
075021101	262178	Soil
075021102	262178	Soil
075021301	262178	Soil
075021302	262178	Soil
075021501	262178	Soil
075021502	262178	Soil
075021601	262178	Soil
075021602	262178	Soil
075021603	262178	Soil
LCSS	262671	Solid

Samples Received on June 29, 1995
ETR No. 52146

075021701	262638	Soil
075021701	262638MS	Soil
075021701	262638MD	Soil
075021702	262639	Soil
075021801	262640	Soil
075021901	262641	Soil
075021902	262642	Soil
075022002	262643	Soil
075022101	262644	Soil
075022102	262645	Soil
075022301	262646	Soil
075022302	262647	Soil
075022401	262648	Soil
075022402	262649	Soil
LCSS	262655	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

The 8240 volatile organic analysis of samples labeled 075019702MS and 075019702MSD exhibited matrix spike recovery of toluene below quality control criteria at zero percent. This anomaly appears to be due to the relatively high concentration of this compound in sample 075019702.

Two samples in this delivery group were assigned 8020-BTEX analysis after TPH-diesel results were available. The initiation of these analyses occurred after construction of the SDG (including quality control (QC) assignments) had been completed. No other samples in the SDG had been assigned BTEX analysis, therefore no matrix spike, matrix spike duplicate QC samples existed. Blank spike samples (LCS) have been presented for all analyses.

Please note the use of the following additional qualifier when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall 90 percent within calibration standard range, or exhibit a reasonable pattern match to any of the calibrated fuels.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factor used for each column and compound has been recorded on calibration summary Form 6.

The 8020-BTEX analysis of samples 075019502 and 075022401 occurred beyond the prescribed holding time. These analyses were initiated after TPH-diesel results were available, which did not leave the laboratory sufficient time to complete the 8020 analysis in this instance. The analysis of sample labeled 075019502 exhibited xylene concentrations above calibration range, however this sample was not reanalyzed at a dilution.

The 8020-BTEX analysis of sample 075020701 was analyzed using medium level technology based on screen results. This analysis did not exhibit reportable concentrations of target compounds and was not reanalyzed at a greater concentration.

The 8020-BTEX analysis of method blank VBLKU1 exhibited toluene concentrations above reporting limit, which the laboratory suspected was carry-over from a previous injection. This blank is associated with samples 075019502 and E7LCS.

Please note the use of the following qualifier when reporting 8020-BTEX results:

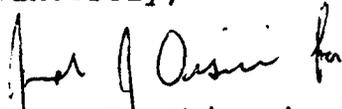
P = Greater than 25 percent difference in concentration was observed between two analytical columns.

Dr. Randy Jordan
August 1, 1995
Page 4

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B27JUN95

0002E



CLEAN II

CHAIN-OF-CUSTODY RECORD

8694

000003

Site Name: <u>MCAS EITORD</u>	Sampler's Name(s): <u>B. Wundlan, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>M. Dalrymple</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park DR., Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-004
 Date: 6-21-95 to 6-22-95

Pay Items/Analyses Required

0015M	8240	353.3	365.2	9060	9045
NONE				NONE	

QC Level: D E

TAT (in days): 2 7 14 30

Preservation: NONE

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0197	6-21-95 1524	390B-SB1/260-26.5	SOIL	/	SS tube	01	
↓	↓ 1524	↓ 25.5-26.0	↓	↓ 02 nd	↓	02	Analyze 02 for 8240
075-0198	6-21-95 1530	↓ 31.0-31.5	↓	↓	↓	01	
↓	↓ 1530	↓ 30.5-31.0	↓	↓	↓	02 02 02 02	HEAD SPACE TOP + Bottom
075-0200	6-21-95 1555	↓ 36.0-36.5	↓	↓	↓	01	
↓	↓ 1555	↓ 35.5-36.0	↓	↓ 02	↓	↓	
075-0201	6-21-95 1629	↓ 41.0-41.5	↓	↓	↓	01	
↓	↓ 1629	↓ 40.5-41.0	↓	↓	↓	02 02 02 02	
075-0203	6-22-95 0918	↓ 51.0-51.5	↓	↓	↓	01	Analyze 01 8015M only no 8240
↓	↓ 0918	↓ 50.5-51.0	SOIL	↓	SS tube	02 02 02 02	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>M. Dalrymple</u>		6-22-95	1520	Analysis	All samples cooled to 4°C see COC 8694
	<u>[Signature]</u>	6/23/95	0930	ANALYSIS	
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>551512344</u> Total No. of Coolers: <u>1</u>



CLEAN II

COPY - ORIGINAL ON FILE

JG # 51957 ETR # 52045

865

000000

CHAIN-OF-CUSTODY RECORD

Site Name: <u>MCAS El TORO</u>	Sampler's Name(s): <u>B. Cundelan, M. Dalrymple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>M. Dalrymple</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 S. Park Dr., Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-004
 Date: 6-21-95 to 6-22-95

Pay Items/Analyses Required

8015M (TPH)	8240 (VOCs)	353.3 (TKM)	365.2	9060	9045	8240 (VOCs)
NONE	NONE	NONE	NONE	NONE	NONE	HCL

QC Level: D E

TAT (in days):

2	7	14	<input checked="" type="checkbox"/> 30
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)							Remarks (e.g., MS, MSD)
						NONE	NONE	NONE	NONE	NONE	NONE	HCL	
075-0190	6-21-95 0900	390B-SBI / Trip blank	WATER		VOA Vial	/	/	/	/	/	/	01	
075-0191	6-21-95 1232	390B-SBI / 6.0-6.5	SOIL		SS Tube	01	/	/	/	/	/	/	
075-0192	6-21-95 1412	11.0-11.5				01	/	/	/	/	/	/	HEAD SPACE
075-0194	6-21-95 1428	16.0-16.5				01	/	/	/	/	/	/	
075-0195	6-21-95 1448	15.5-16.0											Archive 02
075-0195	6-21-95 1448	20.5-21.0 - BC			BC	01	02	02	02	02	02	02	HEAD SPACE 02 for 8015M
	1448	21.0-21.5 - BC											Head Space 01

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
<u>M. Dalrymple</u>	<u>[Signature]</u>	<u>6-22-95</u>	<u>1530</u>	<u>Analysis</u>	All samples cooled to 4°C
		<u>6/23/95</u>	<u>0930</u>	<u>ANALYSIS</u>	NOTE: COC Records 8692 and 8693 missing. Analyze soil sample with highest TPH for organolead. If all soil samples ND for TPH, analyze sample 075-0203-01 for organolead.
					Method of Shipment: <u>Fed Ex</u>
					Airbill No.: <u>5511512344</u> Total No. of Coolers Shipped: <u>1</u>

CHAIN-OF-CUSTODY RECORD

8696

00005

Site Name: MCLAS EL TOVO
 CTO Number: 075

Sampler's Name(s): B. Cundelan, M. Dalrymple
 Sampler's Signature(s): B. Cundela

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Incheape Testing Services
 Analytical Laboratory Address: 55 S. Park Dr., Colchester VT
 Field QC Package Number: NA
 Field Logbook/Page Number: 075-SB-004/0003264 327
 Date: ~~6-21-95~~ 6-22-95 to 6-23-95

Ray Items/Analyses Required

8015M	8240	353.3 (TKW)	365.2	906φ	9045
NONE				NONE	

QC Level: D E

TAT (in days):

2	7	14	<input checked="" type="checkbox"/>
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Preservation: NONE

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)				Remarks (e.g., MS, MSD)
						01	02	03	04	
0750205	6-22-95 1135L	390B-SB1/61.0-61.5	SOIL	/	SS TUBE	01	01	/	/	
↓	↓ 1135	60.5-61.0	/	/	/	/	02	02	02	02
0750207	6-22-95 1412L	71.0-71.5	/	/	/	01	/	/	/	/
↓	↓ 1412	70.5-71.0	/	/	/	/	02	02	02	02
0750209	6-22-95 1458L	81.0-81.5	/	/	/	01	/	/	/	/
↓	↓ 23/1458	80.5-81.0	/	/	/	/	02	02	02	02
0750211	6-22-95 0834L	91.0-91.5	/	/	/	01	01	/	/	Analyze 01 for 8015M + 8240
↓	↓ 23	90.5-91.0	/	/	/	/	02	02	02	02
0750213	6-22-95 0913L	99.0-99.5	/	/	/	01	/	/	/	/
↓	↓ 0913	98.5-99.0	SOIL	/	SS TUBE	/	02	02	02	02

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
B. Cundelan		6-23-95	1422	Analysis	All samples cooled to 4°C See C.O.C. 8694 MD SEE C.O.C. 8699
	KL	6/24/95	1215	ANALYSIS	Note: LOC records 8696 and 8697 are missing
					Method of Shipment: Fed Ex
					Airbill No.: 5511512425
					Total No. of Coolers Shipped: 1

CHAIN-OF-CUSTODY RECORD

86

Site Name: <u>MCAS EL TORO</u>	Sampler's Name(s): <u>B. Condela, M. Dallynple</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B. Condela</u>	

Analytical Laboratory Name: Fuchs Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-004/000327
 Date: 6-22-95

Pay Items/Analyses Required

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QC Level:

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------

 D E

TAT (in days):

2	7	14	<input checked="" type="checkbox"/>
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)										Remarks (e.g., MS, MSD)					
						Preservation															
075-0215	5-22-95 1030	390B-SB1	WATER		VOA VIAL	01															Trip Blank
- 215	6-22-95 8:23	↓	WATER	02	VOA VIAL	01															Trip Blank
- 216	6-22-95 0950	↓	WATER		VOA VIAL	01															EQUIP RINS DATE BLANK
- 216	0950	↓	WATER	02	VOA VIAL																↓
- 216	0950	↓	WATER		LABOR	03															↓

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
B. Condela		6-23-95	1422	ANALYSIS	All samples cooled to 4°C ANALYZE SOIL SAMPLE WITH HIGHEST TPH FOR BTEX AND ORGANIC LEAD. IF ALL SOIL SAMPLES ARE NOW DETECT, THEN ANALYZE SAMPLE 075-0213 FOR BTEX AND ORGANIC LEAD
	<u>[Signature]</u>	6/27/95	1215	ANALYSIS	
					Method of Shipment: <u>FED EX</u>
					Airbill No.: <u>5511572425</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

2700

2000000

Site Name: MCAS EI TORO
CTO Number: 075

Sampler's Name(s): B. CUNDELAN, S. HAMMETT
Sampler's Signature(s): B. Cundelan

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 555. PARK Dr., Colchester VT
Field QC Package Number: NA
Field Logbook/Page Number: 075-SB-004/
Date: 6-26-95

Pay Items/Analyses Required	
Preservation	
Container Nos. (2 digit)	

QC Level
 D E

TAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-02170	0919	390B-SB2/60-6.5	SOIL	/	S.S. TUBE	01	HEAD SPACE
075-02180	0940	150-6.0	/	02	/	01	HEAD SPACE
075-02190	0950	110.5-11.0	/	02	/	01	NO RECOVERY
075-02190	0950	115.5-16.0	/	01	SOIL	01	HEAD SPACE / ARCHIVE
075-02200	1034	15.0-15.5	/	02	SOIL	01	ANALYZE
075-02200	1034	22.0-22.5	/	01	SOIL	01	NO RECOVERY
075-02210	1034	21.5-22.0	/	02	SOIL	01	ANALYZE
075-02210	1040	26.0-26.5	/	01	SOIL	01	/
075-02210	1044	125.5-26.0	SOIL	02	S.S. TUBE	/	/

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions: Cooled to 4°C
<u>B. Cundelan</u>	<u>[Signature]</u>	<u>6-27-95</u>	<u>1420</u>	<u>ANALYSIS</u>	<u>ANALYZE SOIL SAMPLE WITH HIGHEST TPH FOR BTEX AND ORGANO LEAD. IF NO TPH BC, ANALYZE SAMPLE FOR BTEX AND ORGANO LEAD.</u>
		<u>6/29/95</u>	<u>0915</u>	<u>ANALYSIS</u>	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511512436</u> Total No. Coolers: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

August 21, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Revision 1
Aquatec Project Number 94227
Case No. 075; SDG No. 52149; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on June 29 and July 1, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
-----------------------------------	-------------------------------------	--------------------------------

Samples Received on June 29, 1995
ETR No. 52149

075022501	262660	Water
075022502	262661	Water
075022601	262662	Soil
075022701	262663	Soil
075022801	262664	Soil
075022901	262665	Soil
075023001	262666	Water
075023002	262667	Water
075023101	262668	Soil
075023101	262668MS	Soil
075023101	262668MD	Soil
075023102	262669	Soil
LCSS	262670	

Samples Received on July 1, 1995
ETR No. 52204

075023201	262899	Soil
075023202	262900	Soil
075023301	262901	Soil
075023302	262902	Soil
075023401	262903	Soil
075023401	262903D1	Soil
075023402	262904	Soil
075023501	262905	Soil
075023502	262906	Soil
075023601	262907	Soil
075023602	262908	Soil

Rw 8/21/95
0001

<u>Client Sample ID</u>	<u>Laboratory Lab No.</u>	<u>Sample Matrix</u>
Samples Received on July 1, 1995 ETR No. 52204 (continued)		
075023701	262909	Soil
075023702	262910	Soil
075023801	262911	Soil
075023802	262912	Soil
075023902	262913	Soil
075024002	262914	Soil
075024301	262915	Water
075024302	262916	Water
075024401	262917	Water
075024402	262918	Water
075024501	262919	Soil
075024601	262920	Soil
075024601	262920D1	Soil
075024701	262921	Soil
075024801	262922	Water
075024802	262923	Water
075024803	262924	Water
075024901	262925	Soil
075025001	262926	Soil

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Three samples in this delivery group were assigned 8020-BTEX and organic lead analyses after TPH-diesel results were available. The initiation of these analyses occurred after construction of the SDG (including quality control (QC) assignments) had been completed. No other samples in the SDG had been assigned these analyses, therefore no matrix spike, matrix spike duplicate QC samples existed. Blank spike samples (LCS) have been presented for all analyses.

Rev 8/21/95
0002

Four standard points instead of five were used to calibrate 8020-BTEX compounds on the analytical sequence dated 7/19/95. The low point of the curve used was 1.0 ppb rather than 0.5 ppb. The laboratory searched the samples to half the low standard values, therefore the reporting limit was not affected.

The standard curve was accidentally fortified with surrogate spike on the 8020-BTEX analytical sequence dated 7/5/95. These standards already contain the surrogate compounds. Therefore, on samples VBLKS6, 075022701 and LCSS6, surrogate recoveries were calculated using a one point calibration based on the high point of the curve. Sample 075022701 exhibited surrogate recoveries outside quality control criteria.

The 8020-BTEX analysis of method blank labeled VBLKU3 exhibited toluene and xylene concentrations above reporting limit. The samples associated with this blank, 075023401 and 075024601, were reanalyzed at dilutions due to the concentration of target compounds in the original analysis. The second analysis of sample 075023401 exhibited toluene concentrations slightly above calibration range.

Samples labeled 075022501, 075023001, 075024301 and 075024401 were received and subsequently analyzed for 8020-BTEX beyond the prescribed holding time.

Please note the use of the following qualifiers when reporting 8020-BTEX results:

B = Compound was detected and reported in the associated method blank.

E = Compound concentration reported from a response exceeding the standard calibration range.

The TPH-diesel analysis of samples labeled 075023101MS and 075023101MSD exhibited matrix spike compound recovery of diesel fuel outside quality control criteria. The laboratory suspects that this anomaly was due to the relatively high concentration of diesel fuel in parent sample 075023101. The blank spike sample exhibited acceptable recovery.

The TPH-diesel analyses of samples 075022601, 075022701 and 075024601 were accomplished at dilutions due to the presence of target compounds in the samples, resulting in the dilution of surrogate compounds below a quantifiable level.

Please note the use of the following qualifier when reporting TPH-diesel results:

Z = Unknown single peaks or chromatographic patterns have been detected but do not resemble a typical fuel pattern.

Rev 8/21/
0002A

Dr. Randy Jordan
August 21, 1995
Page 4

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,

Karen R. Chirgwin
Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B17AUG95

Rw 8/21/95
00027

The Chain of Custody for
samples in this Lab report
were not included in this
lab report transmitted.

J. Keller
2/14/98



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

August 16, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Revision 1
Aquatec Project Number 94227
Case No. 075; SDG No. 52348; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on July 7 and 12, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
Samples Received on July 7, 1995		
ETR No. 52348		
075025101	263327	Water
075025102	263328	Water
075025201	263329	Soil
075025301	263330	Soil
075025301	263330MS	Soil
075025301	263330MD	Soil
075025302	263331	Soil
075025401	263332	Soil
075025402	263333	Soil
075025501	263334	Soil
075025502	263335	Soil
075025602	263336	Soil
075025701	263337	Soil
075025702	263338	Soil
075025802	263339	Soil
075025902	263340	Soil
075026001	263341	Soil
075026002	263342	Soil
075026101	263343	Soil
075026102	263344	Soil
075026201	263345	Soil
075026202	263346	Soil
LCSS	263347	Solid

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0001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on July 12, 1995
ETR No. 52395

075026301	263531	Water
075026302	263532	Water
075026303	263533	Water
075026401	263534	Water
075026402	263535	Water
075026501	263536	Soil
075026601	263537	Soil
075026701	263538	Soil
075026801	263539	Soil
075026901	263540	Soil
075026902	263541	Soil
075027101	263542	Soil
075027102	263543	Soil
075027102	263543MS	Soil
075027102	263543MD	Soil
075027102	263543DP	Soil
075027302	263544	Soil
075027401	263545	Soil
075027401	263545MS	Soil
075027401	263545MD	Soil
LCSS	263546	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

The TKN analysis of sample labeled 075027102 exhibited matrix spike recovery outside established quality control criteria.

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factor used for each column and compound have been recorded on calibration summary Form 6.

Please note that samples labeled 075025101 and 075026401 were received and subsequently analyzed for 8020-BTEX beyond the prescribed holding time.

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0002

Dr. Randy Jordan
August 16, 1995
Page 3

The 8020-BTEX analysis of samples 075027401MSD and F1LCS exhibited surrogate recovery of 1-chloro-2-fluorobenzene below quality control criteria on the VOCOL detector. The hall detector exhibited acceptable recoveries. Blank spike sample labeled SLCS exhibited matrix spike recovery of toluene below control limits.

Please note the use of the following qualifier when reporting 8020-BTEX results:

P = Greater than 25 percent difference was observed between concentrations on two analytical columns.

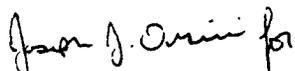
Please note the use of the following qualifier when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall 90 percent within calibration standard range, or exhibit a reasonable pattern match to any of the calibrated fuels.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B15AUG95

Rev. 8/16/95
0002A



CHAIN-OF-CUSTODY RECORD

87
100003

Site Name: <u>MCAS EL TORO</u>	Sampler's Name(s): <u>B. Cundela, S. Hammett</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): _____	

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-005/000412
 Date: 7-6-95

Pay Items/Analyses Required

Preservation	

QC Level: D E

TAT (in days):

2	7	14	<input checked="" type="checkbox"/>
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
BC 075-0256	7-6-95 1119	54A-SB1/36.0-36.5	SOIL		SSTUBE	01	NO RECOVERY
256	1119	35.5-36.0				02	
257	1126	41.0-41.5				01	
257	1126	40.5-41.0		02			
BC 258	1134	46.0-46.5				01	NO RECOVERY
BC 258	1134	45.5-46.0		BC 02		02	BC HEAD NO SPACE RECOVER
BC 259	1145	51.0-51.5				01	NO RECOVERY
BC 259	1145	50.5-51.0	SOIL		SSTUBE	02	NO RECOVERY HEAD SPACE

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
B. Cundela		7-6-95	1420	ANALYSIS	SEE C.O.C. # 8707
		7/7/95	0930	ANALYSES	075-0259-02, Has Head Space, Same 10c.
					Method of Shipment: <u>Fed Exp.</u>
					Airbill No.: <u>551512451</u> Total No. of Coolers Shipped: <u>1</u>



CLEAN II

CHAIN-OF-CUSTODY RECORD

27

100005

Site Name: MCAS EL TORO
CTO Number: 075

Sampler's Name(s): B. Cundelan, S. Hammett
Sampler's Signature(s): B. Cundelan

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-SB-005/000414 + 415
Date: 7-10-95

Pay Items/Analyses Required
8015 (TPH-D)
351.3 (TKN)
365.2 (Pb, Mn, Ni, Cr, Cu, Zn, Cd, Hg, Se, As, Mo, V, Co, Ni, Mn, Pb, Fe, Al, Si, Ti, Ca, Mg, K, Na, S, Cl, Br, I, F, B, Li, Rb, Cs, Sr, Ba, Y, Zr, Nb, Mo, Tc, Ru, Rh, Pd, Ag, Au, Hg, Pt, Bi, Po, At, Rn, Fr, Ra, Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr)
9045 (Pb)

QC Level
 D E

TAT (in days)
2 7 14

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Preservation										Remarks (e.g., MS, MSD)						
						Container Nos. (2 digit)																
075-0268	7-10-95 11:34	366-SB1/31.0-31.5	SOIL	/	S.S. TUBES	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	NO RECOVERY
268	11:34	/ 30.5 - 31.0		/	02																	NO RECOVERY
269	11:45	/ 36.0 - 36.5		/	01																	
269	11:45	/ 35.5 - 36.0		/	02																	
270		/		/	01																	NO RECOVERY
270		/		/	02																	
271	14:20	/ 46.0 - 46.5		01	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	LARGE HEAD SPACE, ARCHIVE
271	14:20	/ 45.5 - 46.0		02	BC	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	ANALYZE
272	14:39	/ 51.0 - 51.5		/	01																	NO RECOVERY
272	14:39	/ 50.5 - 51.0		/	02																	NO RECOVERY

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
	<u>[Signature]</u>	<u>7/12/95</u>	<u>0930</u>	<u>ANALYSIS</u>	<u>ALL Samples Cooled to 4°C</u> <u>Analyze soil sample with highest TPH for BTEX +</u> <u>ORGANOLEAD. IF NON-Detect for soil samples, then</u> <u>Analyze NO.</u> <u>FOR BTEX + ORGANOLEAD SEE SHT 8726</u> <u>B.C.</u>
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511512462</u>
					Total No. of Coolers Shipped: <u>1</u>

CHAIN-OF-CUSTODY RECORD

8726
000001

Site Name: MCAS EL TORO
CTO Number: 075

Sampler's Name(s): B. Cuddelem, S. Hammett
Sampler's Signature(s): B. Cuddelem

Site Contact/Supervisor: Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-SB-005/000414
Date: 7-10-95

Pay Items/Analyses Required
 B015M(TPH-D)
 B020(VOCs)
 351.3(TKN)
 365.2 ORTHO PHOSPHATE
 9060 ORGANIC CARBON
 9045 (PA)

QC Level
 D E

TAT (in days)
 2 7 14

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)										Remarks (e.g., MS, MSD)		
						1	2	3	4	5	6	7	8	9	10			
075-0263	7-10-95 1745	366-SB1	WATER		1 Amber	01												EQUIP RINSE/BLANKS
263	1745				VOR VIAL	02												
263	1745				03 VOR VIAL													
264	5-22-95 1030				VOR VIAL	01												TRIP BLANK
264					02 VOR VIAL													TRIP BLANK
265	7-10-95 1022	366-SB1/16.0-16.5	SOIL		SSTUBES	01	01	01	01	BC	01							DO 9060
265					02					BC								NO RECOVERY DO 9060
266	1035	21.0-21.5				01	01	01	01	BC	01							NO RECOVERY
266	1035	20.5-21.0				02												NO RECOVERY
267	1114	26.0-26.5				01												NO RECOVERY
267	1114	25.5-26.0				02												NO RECOVERY

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
				ANALYSIS	All samples cooled to 4°C ANALYZE SOIL Sample with highest TPH FOR BTEX + Organolead. IF Non-detect FOR SOIL Samples, Then Analyze NO. 075-0286-01
		7/12/95	0930	ANALYSES	
					FOR BTEX + Organolead
					Method of Shipment: FED EX
					Airbill No.: 5511512462
					Total No. of Coolers Shipped: 1



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

August 10, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 52397; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on July 12, 13 and 15, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on July 12, 1995
ETR No. 52397

075027501	263560	Soil
075027501	263560MS	Soil
075027501	263560MD	Soil
075027502	263561	Soil
075027602	263562	Soil
075027701	263563	Soil
075027702	263564	Soil
075028601	263565	Soil
075028601	263565MS	Soil
075028601	263565DP	Soil
LCSS	263566	Solid

Samples Received on July 13, 1995
ETR No. 52450

075028701	263616	Water
075028702	263617	Water
075028801	263618	Soil
075028802	263619	Soil
075029001	263620	Soil
075029101	263621	Soil
075029201	263622	Soil
075029202	263623	Soil
075029301	263624	Soil
075029302	263625	Soil
075029501	263626	Soil
075029502	263627	Soil

0001

<u>Client Sample ID</u>	<u>Laboratory Lab No.</u>	<u>Sample Matrix</u>
Samples Received on July 13, 1995 ETR No. 52450 (continued)		
075029601	263628	Soil
075029602	263629	Soil
075029701	263630	Soil
075029702	263631	Soil
075029801	263632	Soil
075029802	263633	Soil
075029901	263634	Soil
075029901	263634MS	Soil
075029901	263634MD	Soil
075029901	263634DP	Soil
075029902	263635	Soil

Samples Received on July 15, 1995
ETR No. 52467

075030101	263890	Water
075030102	263891	Water
075030301	263892	Soil
075030401	263893	Soil
075030402	263894	Soil
075030601	263895	Soil
075030602	263896	Soil
075030701	263897	Soil
075030702	263898	Soil
075030801	263899	Soil
075030802	263900	Soil
075030901	263901	Soil
075030902	263902	Soil

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Dr. Randy Jordan
August 10, 1995
Page 3

The Total Kjeldahl Nitrogen (TKN) analysis of samples labeled 075027602, 075028601, 075028601MS and 075028601REP exhibited a cloudy appearance and strong sulfur odor after the distillation process. The laboratory suspects that these anomalies are related to the higher TKN result in the parent sample than in sample labeled 075028601MS, resulting in the zero percent matrix spike recovery.

The 8020-BTEX analysis of samples labeled 075029901MS and 075029901MSD exhibited matrix spike recovery of benzene and toluene slightly below quality control criteria. Blank spike sample LCSS exhibited toluene recovery just below control limits.

Please note the use of the following qualifier when reporting 8020-BTEX results:

P = Greater than 25 percent difference was observed in the calculated value between two analytical columns.

Please note the use of the following additional qualifier when reporting TPH-diesel results:

Y = A fuel mixture pattern was detected but does not fall 90 percent within calibration standard range, or exhibit a reasonable pattern match to any of the calibrated fuels.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B18JUL95

00024



CHAIN-OF-CUSTODY RECORD

8734

100001

Site Name: <u>MCAS EL TORO</u>	Sampler's Name(s): <u>B. Cundelan, S. Hammott</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B. Cundelan</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-005/000417
 Date: 7-11-95

Pay Items/Analyses Required

Preservation	
2	7
14	30

QC Level: D E

TAT (in days)

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)	Remarks (e.g., MS, MSD)
075-0292	7-10-95 1458	366-SB2/36.0-36.5	SOIL	/	SS TUBE	01	
292	1458	35.5-36.0		/		02	
293	1528	41.0-41.5		/		01	
293	1528	40.5-41.0		/		02	
294		46.0-46.5		/			No Recovery
294				/			↓
295	1609	51.0-51.5		/		01	
295	1609	50.5-51.0		/		02	
296	1622	56.0-56.5		/		01	
296	1622	55.5-56.0		/		02	

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
J. Lopez		7-12-95	0845	ANALYSIS	SEE C.O.C. 8733
		7/13/95	0930	ANALYSIS	
Method of Shipment: <u>FED EXP.</u>					Total No. of Coolers: <u>1</u>
Airbill No.: <u>5571512473</u>					



CLEAN II

CHAIN-OF-CUSTODY RECORD

7540

1000000000

Site Name: MCAS EL TORO
CTO Number: 075-

Sampler's Name(s): B. Cundalan, S. Hammett
Sampler's Signature(s): B. Cundalan

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-SB-005/000419 + 420
Date: 7-13-95

Pay Items/Analyses Required	
<u>0015 (TPH-D)</u>	
<u>351.3 (TKN)</u>	
<u>365.2 (PBT/PAH)</u>	
<u>9060 (PBT/PAH)</u>	
<u>5045 (PAH)</u>	

QC Level
 D E

TAT (in days)
2 7 14

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Preservation		Remarks (e.g., MS, MSD)
						Container Nos. (2 digit)		
<u>075-305</u>	<u>7-13-95 0828</u>	<u>361-SB1/310-31.0</u>	<u>SOIL</u>		<u>STURBIE</u>			<u>NO</u>
305	0828	305-31.0						<u>RECOVER</u>
<u>306</u>	<u>0839</u>	<u>36.0-36.5</u>			<u>01</u>			<u>HEAD SPACE</u>
<u>306</u>	<u>0839</u>	<u>35.5-36.0</u>			<u>01</u>	<u>02 02 02 02</u>		
<u>307</u>	<u>0859</u>	<u>41.0-41.5</u>			<u>01</u>			
<u>307</u>	<u>0859</u>	<u>40.5-41.0</u>						
<u>308</u>	<u>0908</u>	<u>46.0-46.5</u>			<u>01</u>			
<u>308</u>	<u>0908</u>	<u>45.5-46.0</u>				<u>02</u>		
<u>309</u>	<u>0945</u>	<u>51.0-51.5</u>			<u>01</u>			<u>PETROLEUM OIL</u>
<u>309</u>	<u>0945</u>	<u>50.5-51.0</u>			<u>01</u>	<u>02 02 02</u>		<u>PETROLEUM OIL</u>

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>J. Lopez</u>	<u>[Signature]</u>	<u>7-14-95</u>	<u>1130</u>	<u>ANALYSIS</u>	<u>SEE C.O.C. # 7542</u>
		<u>7-15-95</u>	<u>1100</u>		
					Method of Shipment: <u>FED EXP.</u>
					Airbill No.: <u>5511512355</u> Total No. of Coolers <u>9</u> d: <u>1</u>

CHAIN-OF-CUSTODY RECORD

75(000000)

Site Name: <u>MCAS ISL TORO</u>	Sampler's Name(s): <u>B. Cundelan, S. HAMMETT</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B. Cundelan</u>	

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SR-005/000419
 Date: 7-13-95

Pay Items/Analyses Required

<input checked="" type="checkbox"/> 0015M(TPH-D)	<input checked="" type="checkbox"/> 0020(BTEX)	<input checked="" type="checkbox"/> 35L3(TKN)	<input checked="" type="checkbox"/> 36S-2(BTEX)	<input checked="" type="checkbox"/> 0060(PHOSPHATE)	<input checked="" type="checkbox"/> 0060(CARBON)	<input checked="" type="checkbox"/> 9045(PH)
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QC Level: D E

TAT (in days):

2	7	14	<input checked="" type="checkbox"/>
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)							Remarks (e.g., MS, MSD)
						1	2	3	4	5	6	7	
075-0340	7-14-95	SB1 367-SB1	WATER	/	RAMBER	01							EQUIP. RINSE BOTTLE BLANK
300		367-SB1	/	/	VORVIAL	02							
300		/	/	03	/	/							
301	5-22-95	/	/	/	/	01							TRIP BLANK
301	↓	/	WATER	02	VORVIAL	/							↓
302	7-13-95	16.0 - 16.5 16.0 - 16.5	SOIL	/	SSTUBE	/							NO RECOVERY
302	0744	02105-110	/	/	/	/							↓
303	0808	21.0 - 26.5	/	/	/	01	01	01	02				NO RECOVERY
303	0808	/	/	/	/	/							
304	0814	26.0 - 26.5	/	/	/	01							
304	0814	25.5 - 26.0	/	/	/	/				02			HEAD SPACE

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
J. Lopez	<i>[Signature]</i>	7-14-95	1130	ANALYSIS	All Samples Cooled To 4°C ANALYZE SOIL SAMPLE WITH HIGHEST TPH FOR BTEX & ORGANOLEAD. IF NON-DETECT FOR SOIL SAMPLES, THEN ANALYZE NO. 075-0329-01 FOR BTEX & ORGANOLEAD
	<i>[Signature]</i>	7-15-95	1100		
					Method of Shipment: FED EXP
					Airbill No.: 55115/2355 Total No. of Coolers Shipped: 1



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

August 21, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 52470; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on July 15 and 18, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on July 15, 1995
ETR No. 52470

075031001	263910	Soil
075031001	263910MS	Soil
075031001	263910MD	Soil
075031002	263911	Soil
075031102	263912	Soil
075031201	263913	Soil
075031302	263914	Soil
075032601	263915	Soil
075032602	263916	Soil
075032602	263916MS	Soil
075032602	263916MD	Soil
075032701	263917	Soil
075032801	263918	Soil
075032801	263918MS	Soil
075032801	263918DP	Soil
075032802	263919	Soil
075032901	263920	Soil
075032902	263921	Soil
LCSS	263922	Solid

Samples Received on July 18, 1995
ETR No. 52486

075030001	264004	Water
075030002	264005	Water
075030003	264006	Water
075033001	264007	Water

0001

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on July 18, 1995
ETR No. 52486 (continued)

075033002	264008	Water
075033101	264009	Soil
075033102	264010	Soil
075033201	264011	Soil
075033301	264012	Soil
075033302	264013	Soil
075033401	264014	Soil
075033402	264015	Soil
075033501	264016	Soil
075033502	264017	Soil
075033601	264018	Soil
075033602	264019	Soil
075033701	264020	Soil
075033702	264021	Soil
075033801	264022	Soil
075033802	264023	Soil
075034001	264024	Soil
075034002	264025	Soil
075034101	264026	Soil
075034102	264027	Soil

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

Soil pH determinations for samples 075032901 and 075032902 were performed three days after the samples were received.

The volatile organic analysis of sample labeled VBLKY8 exhibited surrogate recovery slightly above quality control criteria. The blank spike sample labeled Y8LCS exhibited surrogate recoveries slightly below control limits.

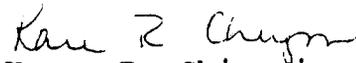
Dr. Randy Jordan
August 21, 1995
Page 3

The TPH-diesel analysis of samples labeled 075031001MS and 075031001MSD exhibited matrix spike recovery of diesel fuel above quality control criteria. The laboratory suspects that this anomaly is due to the high levels of TPH extractables in the parent sample.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,


Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B25JUL95

0002



CLL AN II

CHAIN-OF-CUSTODY RECORD

000003

Site Name: MCAS EL TORO
CTO Number: 075-Sampler's Name(s): B. Cundelan, S. Hammett
Sampler's Signature(s): B. CundelanSite Contact/Supervisor:
Craig CarlisleAnalytical Laboratory Name: Inchcape Testing Services
Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
Field QC Package Number: N/A
Field Logbook/Page Number: 075-S13-005/000420
Date: 7-13-95

Pay Items/Analyses Required	
8015 (TPH-D)	Preservation
351.3 (TKH)	
365.2 (TKH)	
9000 (COPPER)	
9045 (PH)	
8020 (BTEX)	

QC Level
 D ETAT (in days)
2 7 14 30

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
075-0310	7-13-95 1000	367-SB1/50-56.5	SOIL		SSTUBE	01	01	PETROLEUM OILS
310	1000	55.5-56.0		02				NO RECOVERY
311								NO RECOVERY
311	1023	60.5-61.0				02 02 02	02	PETROLEUM OILS
312	1044	66.0-66.5				01	01	NO RECOVERY
312	1044	65.5-66.0						NO RECOVERY
313	1059	71.0-71.5						PETROLEUM OILS / NO RECOVERY
313	1059	70.5-71.0				02 02 02	02	NO RECOVERY
314	1111	76.0-76.5						NO RECOVERY
314	1111	75.5-76.0	SOIL					PETROLEUM OILS

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
J. Lopez	Maurice J. [Signature]	7-14-95	1130	ANALYSIS	SEE C.O.C # 7542
		7-15-95	1100		
Method of Shipment: <u>FED EXP.</u>					Total No. of Coolers Shipped: <u>1</u>
Airbill No.: <u>5511512355</u>					



CLEAN II

CHAIN-OF-CUSTODY RECORD

7542

7000007

Site Name: MCAS EL TORO
 CTO Number: 075-

Sampler's Name(s): B. Cundelan S. Hammett
 Sampler's Signature(s): B. Cundelan

Site Contact/Supervisor:
Craig Carlisle

Analytical Laboratory Name: Inchcape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-005/000420
 Date: 7-13-95

Pay Items/Analyses Required

8015 (TPH-D)	351.3 (TPH)	365.2 (TPH)	9060 (ORGANIC)	9045 (PH)
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QC Level
 D E

TAT (in days)
 2 7 14

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Preservation		Remarks (e.g., MS, MSD)
						Container Nos. (2 digit)		
075-0315	7-13-95 1134	367-381 / 81.0 - 81.5	SOIL		SSTUBE			NO
315	1134	↓ 80.5 - 81.0	SOIL		↓			RECOVERY
2 316	1335	86.0 - 86.5				01		Petroleum odor
2 316	1335	85.5 - 86.0				02 02 / 02		↓
2 317	1357	91.0 - 91.5				01 01 01 / 01		↓
2 317	1357	90.5 - 91.0						NO Recovery
2 318	1408	96.0 - 96.5				01		Petroleum
2 318	1408	95.5 - 96.0						odor
2 319	1433	101.0 - 101.5				01		
0329	1433	100.5 - 101.0				02 02 / 02		

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
J. Lopez	<i>[Signature]</i>	7-14-95	1130	ANALYSIS	SEE C.O.C # 7542
		7-15-95	1100		
					Method of Shipment: <u>FED EXP.</u>
					Airbill No.: <u>55115/2355</u> Total No of Coolers: <u>1</u>

CHAIN-OF-CUSTODY RECORD

500005

Site Name: <u>MCAS FL TORO</u>	Sampler's Name(s): <u>B. Cundelan, S. Hammett</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B. Cundelan</u>	

Analytical Laboratory Name: <u>InchCAPE Testing Services</u>
Analytical Laboratory Address: <u>55 South Park Drive, Colchester, VT</u>
Field QC Package Number: <u>N/A</u>
Field Logbook/Page Number: <u>075-SB-006 / 000504</u>
Date: <u>7-14-95</u>

Pay Items/Analyses Required	
8015 MCTPH-D	8020
HCL	Preservation

QC Level
<input checked="" type="checkbox"/> D <input type="checkbox"/> E

TAT (in days)
2 7 14 <input checked="" type="checkbox"/>

Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
						1	2	
075-0340	7-14-95 1443	367-SBZ / 76.0-76.5	SOIL	/	S.S. TUBES	01	/	
-0340	7-14-95 1443	/ 75.5-76.0		/	/	02	/	
-0341	7-14-95 1458	/ 81.0-81.5		/	/	01	/	
-0341	7-14-95 1458	/ 80.5-81.0		/	/	02	/	
-0342	7-14-95 1509	/ 86.0-86.5		/	/	01	/	
-0342	7-14-95 1509	/ 85.5-86.0		/	/	02	/	
-0343	7-14-95 1520	/ 91.0-91.5		/	/	01	/	Hold SPA
-0343	7-14-95 1520	/ 90.5-91.0		/	/	02	/	Analyze
-0344	7-14-95 1534	/ 96.0-96.5		/	/	01	/	Hold SPA
-0344	7-14-95 1534	/ 95.0-96.0	↓	/	↓	02	/	↓

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions:
<u>B. Cundelan</u>		<u>7-17-95</u>	<u>1450</u>	<u>ANALYSIS</u>	<u>SEE C.O.C # 7551</u>
	<u>[Signature]</u>	<u>7/13/95</u>	<u>0930</u>	<u>ANALYSIS</u>	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511512366</u> Total No. of Coolers Shipped: <u>1</u>

CHAIN-OF-CUSTODY RECORD

100007

Site Name: <u>MCAS EL TORO</u>	Sampler's Name(s): <u>B. Cundelan, S. Hammett</u>	Site Contact/Supervisor: <u>Craig Carlisle</u>
CTO Number: <u>075</u>	Sampler's Signature(s): <u>B. Cundelan</u>	

Analytical Laboratory Name: Inchape Testing Services
 Analytical Laboratory Address: 55 South Park Drive, Colchester, VT
 Field QC Package Number: N/A
 Field Logbook/Page Number: 075-SB-006/00503
 Date: 7-14-95

Pay Items/Analyses Required

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QC Level
 D E

TAT (in days)

2	7	14	<input checked="" type="checkbox"/>
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Sample ID Number (7 digit)	Date/Time Collected	Station Description	Sample Matrix	Archive	Type of Container	Container Nos. (2 digit)		Remarks (e.g., MS, MSD)
						HCL	Preservation	
075-0330	7-22-95 1034	367-SU2	WATER	BC	VOA VIAL Trip Blank	01		Trip Blank
-0330	7-22-95 1430	367-S132	↓	02	VOA VIAL Trip Blank			↓
-0331	7-14-95 1254	367-SR2/31.0-31.5	SOIL		S.S. TUBES	01		
-0331	7-14-95 1254	36.5-31.0		02				Hand Spred
-0332	7-14-95 1300	36.0-36.5				01		↓
-0332	7-14-95 1300	35.5-36.0						NO RECORD
-0333	7-14-95 1309	41.0-41.5				01		
-0333	7-14-95 1309	40.5-41.0		02				
-0334	7-14-95 1317	46.0-46.5				01		
-0334	7-14-95 1317	45.5-46.0		02				

Relinquished By	Received By	Date	Time	Reason for Transfer	Comments/Instructions
B. Cundelan		7-17-95	1450	ANALYSIS	All Samples Cooled to 4°C Analyze Soil Sample with Highest TPH for BTEX + Organolead. BC Organolead. IF Non-Detect For Soil Samples, Then Analyze No. 075-0345-01, For BTEX + Organolead
		7/18/95	0930	ANALYSIS	
					Method of Shipment: <u>FED EXP</u>
					Airbill No.: <u>5511572366</u> Total No. of Coolers Shipped: <u>1</u>



Inchcape Testing Services

Aquatec Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

August 15, 1995

Dr. Randy Jordan
Bechtel
401 West "A" Street, Suite 1000
San Diego, CA 92101-7905

Re: Aquatec Project Number 94227
Case No. 075; SDG No. 52502; CTO-075

Dear Dr. Jordan:

Enclosed are the analytical results for samples received intact by Inchcape Testing Services-Aquatec Laboratory on July 18, 1995. Laboratory numbers were assigned and are designated as follows:

<u>Client</u> <u>Sample ID</u>	<u>Laboratory</u> <u>Lab No.</u>	<u>Sample</u> <u>Matrix</u>
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Samples Received on July 18, 1995
ETR No. 52502

075034201	264089	Soil
075034201	264089MS	Soil
075034201	264089MD	Soil
075034202	264090	Soil
075034301	264091	Soil
075034301	264092	Soil
075034401	264093	Soil
075034402	264094	Soil
075034501	264095	Soil
075034501	264095MS	Soil
075034501	264095MD	Soil
075034501	264095DP	Soil
075034502	264096	Soil
LCSS	264097	Solid

To accommodate commercial software packages designed for CLP reporting formats, client sample ID's were truncated during analysis. The first three digits (CTO no.) were eliminated. The electronic deliverable contains the original client identification.

Data acquired for all analyses conducted on samples in this delivery group have been reported to the Sample Quantitation Limit (SQL). The SQL is derived for each analysis based on the low standard point and a calculation which considers the volume of sample used and its final extract concentration. Analytes detected below the SQL, on a sample specific basis, are reported with a "J" qualifier indicating an estimated value. These values are also below the CRQL.

0001

Dr. Randy Jordan
August 15, 1995
Page 2

Five to six standard points were used to calibrate 8020-BTEX compounds. The appropriate calibration factors used have been recorded on calibration summary Form 6.

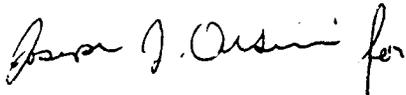
The 8020-BTEX analysis of samples labeled 075034501MS and 075034501MSD exhibited surrogate recovery of 1-chloro-2-fluorobenzene slightly below quality control criteria. Matrix spike compound toluene was also just below control limits in blank spike sample SLCS.

The 8020-BTEX calibration check standards on the VOCOL column exhibited percent differences outside quality control criteria. The opposing column exhibited acceptable stability.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." A colored sheet of paper entitled "Sample Preparation Package" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact James Madison at (802) 655-1203.

Sincerely,



Karen R. Chirgwin
Laboratory Operations Director

KRC/jg

Enclosure

94227B25JUL95

0002

