Terry Tamminen
Agency Secretary
Cal/EPA

Department of Toxic Substances Control

Edwin F Lowry, Director
5796 Corporate Avenue
Cypress, California 90630

Arnold Schwarzenegger
Governor

January 2, 2004

make Binder under 2003

Mr. F. Andrew Piszkin
BRAC Environmental Coordinator
Base Realignment and Closure
Marine Corps Air Station El Toro
7040 Trabuco Road
Irvine, California 92618

APPROVAL OF SUMMARY CLOSURE REPORT FOR FORMER PESTICIDE STORAGE AREA MSC P2, FORMER MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Piszkin:

The Department of Toxic Substances Control (DTSC) has reviewed the subject document dated January 31, 2000 and the June 11, 2003 responses to DTSC comments on the document. The closure report summarizes the results of an additional 20 soil confirmation samples collected from three locations at MSC P2 in response to DTSC's August 21, 2000 comment letter on the January 31, 2000 Summary Closure Report for the unit. The confirmation soil samples were collected on October 6, 2000 and the samples were analyzed for semi-volatile organic compounds, pesticides, and herbicides. The report also summarizes the results of the May 1999 field activities which involved the collection of 11 soil samples collected from four locations at MSC P2.

The former pesticide storage area MSC P2 was identified in the 1995 Final Environmental Baseline Survey for MCAS El Toro. MSC P2 is described as an area 20 feet wide by 60 feet long concrete slab on the north side of the Golf Course Club House (Building 464) within the golf course facility in the southeastern quadrant of the MCAS El Toro.

The Navy has adequately addressed our comments transmitted on August 21, 2000. Based on our review, we agree with the Navy's recommendation that the unit should be identified as "closed" in the next Base Realignment Closure Business Plan update. The net carcinogenic risk is less than 10^{-6} for residential scenario. Also, non-cancer hazard index for detected chemicals is less than 1.0 for residential scenario.

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If you have any questions, please contact me at (714) 484-5449.

Sincerely,

Rafat A. Abbasi, P.E.,
Senior Engineer
Office of Military Facilities

cc: Ms. Nicole Moutoux
Remedial Project Manager
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Superfund Division (SFD-8-1)
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File: etswtr11June2003toDTSCMSCP2RTC doc

TRANSMITTAL

Date: 11 June 2003

From: Lynn Marie Hornecker

To: Rafat Abbasi
State of California Environmental Protection Agency
Department of Toxic Substances Control (DTSC), Region 4
Site Mitigation Branch, Base Closure Unit
5796 Corporate Avenue
Cypress, CA 90630

Subj: Response to DTSC Comments
Former Pesticide Storage Area, MSC P2
Former Marine Corps Air Station, El Toro

Transmitted is the response to DTSC comments dated 21 August 2000 for former pesticide storage area, MSC P2, at the former Marine Corps Air Station, El Toro. We collected additional samples at the site, and we prepared a revised screening risk evaluation which is presented in the attachment. The cancer risk is less than 1×10^{-6} and the Hazard Index is less than 1.0, and consequently, we are recommending no further action status with environmental condition of property (ECP) category 3 for MSC P2.

Please review the attachment and provide comments within 60 days of receipt, if possible. If we do not receive comments from your office by 21 August 2003, we will assume that you concur with our recommendation to designate no further action status for MSC P2. A formal transmittal letter may follow.

Please do not hesitate to contact me at (619) 532-0783 if you have questions pertaining to this transmittal.

Attachment:
Response To Comments (Shaw June 2003)

CF:
Andy Piszkin w/o atch
MCAS El Toro Project File w/atch
CSO/El Toro w/atch

RESPONSE TO DEPARTMENT OF TOXIC SUBSTANCES CONTROL COMMENTS – SUMMARY REPORT FOR FORMER PESTICIDE STORAGE AREA, MSC P2
Marine Corps Air Station (MCAS) El Toro, California dated January 31, 2000
Prepared by SWDIV, BRAC Program Office, San Diego, California

Comment No.	Section/Page Number	Comment	Shaw Environmental, Inc.'s Response
General Comments from Triss M. Chesney, P.E., Remedial Project Manager, Office of Military Facilities, dated August 21, 2000			
1.		The potential contaminants associated with MSC P2 generally have limited mobility in soil. As a result, the sampling interval (at 5 and 10 feet bgs) is inadequate to investigate a potential release of these contaminants.	Comment has been noted. In response to Department of Toxic Substances Control (DTSC) comments, sampling was conducted on October 6, 2000 at several boring locations to better evaluate distribution of possible pesticides in the shallow soils. The sample locations are shown in Figure 1, Photograph 1 and Photograph 2, enclosed as Attachment 1. Specific Comment numbers 1 and 3 describe the borings and the results in more detail.
2.		Based on clarification provided by the Department of the Navy (DON), DTSC understands that sampling depths were selected to account for the changes in elevation of this area since 1959, when MSC P2 was in use. Based on surrounding improvements, the DON estimated that the MSC P2 area has approximately 4 to 5 feet of fill over the ground surface associated with MSC P2 in 1959. However, DTSC understands that the depth of fill cannot be substantiated.	The depth of fill has not been substantiated; however, field observation of the ground surface in relation to the mature trees and area drainage suggests that the surrounding ground surface was approximately 333 feet (NAVD 88). The current high surface in the sampling area is 335 feet (NAVD 88). Although cut, fill, and compaction cannot be accounted for, it is our opinion that the field observations indicate that fill thickness is approximately 2 feet.

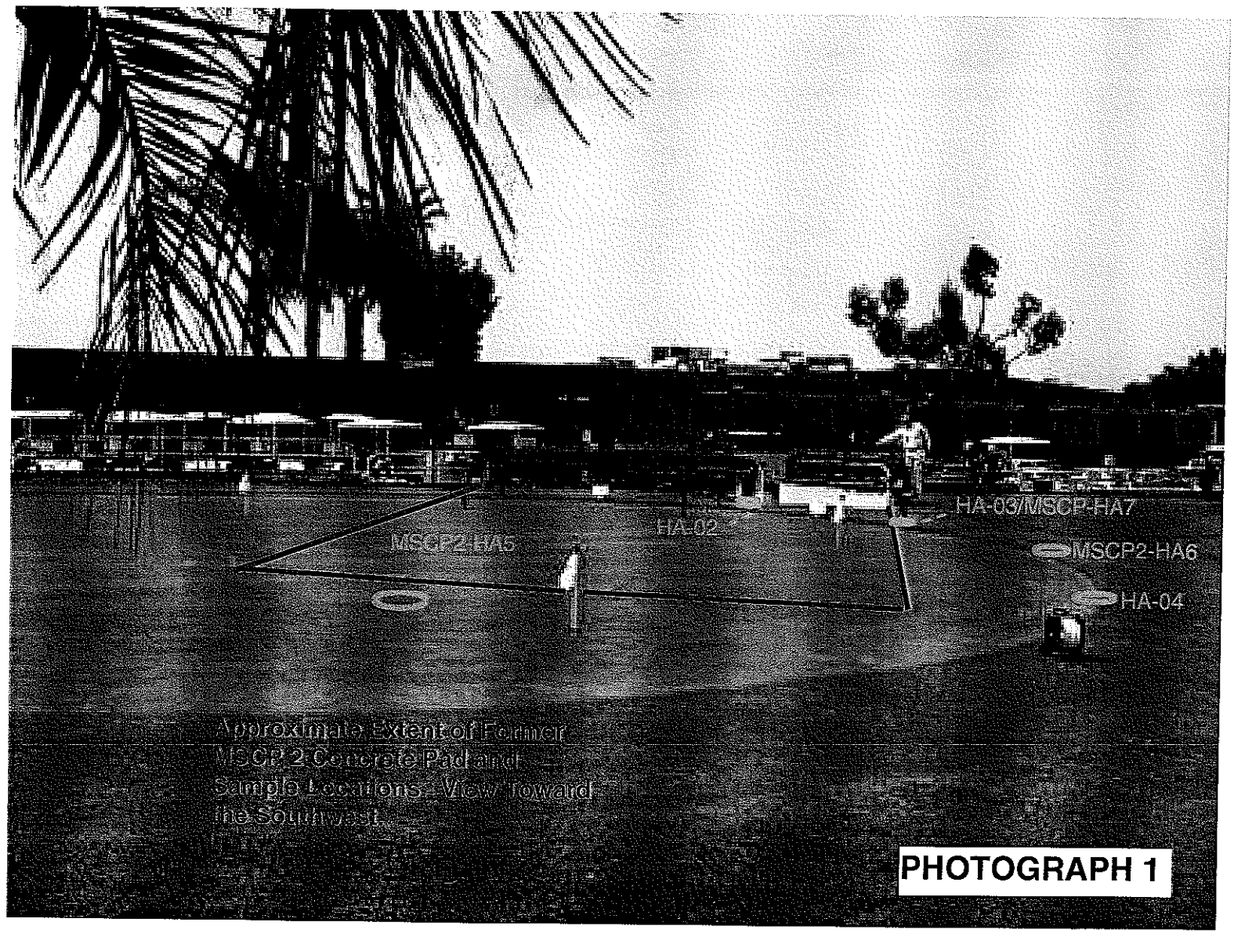
RESPONSE TO DEPARTMENT OF TOXIC SUBSTANCES CONTROL COMMENTS – SUMMARY REPORT FOR FORMER PESTICIDE STORAGE AREA, MSC P2
Marine Corps Air Station (MCAS) El Toro, California dated January 31, 2000
Prepared by SWDIV, BRAC Program Office, San Diego, California

Comment No.	Section/Page Number	Comment	Shaw Environmental, Inc.'s Response
Specific Comments from Triss M. Chesney, P.E., Remedial Project Manager, Office of Military Facilities, dated August 21, 2000			
1.		DTSC recommends collection of samples at the following locations. • One location at the midpoint of the southwest side of the former concrete pad. • Two locations, evenly spaced, along the northwest side of the former concrete pad. • One location at the midpoint of the northeast side of the former concrete pad. The sampling locations should be placed within 2 feet from the edge of the former concrete pad. Soil samples should be collected at two-foot intervals (1, 3, 5, 7, and 9 feet bgs) from each location.	Comment noted. Soil borings MSC-P2-HA05 through MSC-P2-HA08 were advanced at DTSC recommended locations, as shown in Attachment 1. Soil samples were collected from recommended depths of 1, 3, 5, 7, and 9 feet below ground surface, with the exception of MSC-P2-HA08, where samples were collected at 1, 3, and 5 feet below ground surface. Sampling was abridged in this boring because of refusal; however, review of the data from boring MSC-P2-HA08 indicates that no analytes were detected at the 3- and 5-foot sample depths. Endosulfan II was detected at 0.0011J ug/kg in the 1-foot sample at an elevation equivalent to the 3-foot sample in other borings. See analytical data listed in Attachment 2. Review of the analytical data from the nearby borings (MSC-P2-HA05, HA06, and HA07) indicates that 4,4 DDE, 4,4 DDT, 2,4 D, 2,4 DB, gamma-Chlordane, Dalapon, Dicofol, Endosulfan sulfate, and MCPA were detected in the 1- and 3-foot samples. No analytes were detected at 5 feet or greater depth, except for trace concentrations (0.0038 J mg/kg) of 4,4 DDE, which was detected below 5-feet depth only in boring MSACP2-HA05. Risk Assessment of the data indicates no risk to human health and the environment greater than 5.61×10^{-8} (see Attachment 3).

Comment No.	Section/Page Number	Comment	Shaw Environmental, Inc.'s Response
Specific Comments from Triss M. Chesney, P.E., Remedial Project Manager, Office of Military Facilities, dated August 21, 2000			
2.		Please provide additional information regarding Thurshan, Crover and Retard-X. Specifically, clarify if these are trade names for a pesticide formulation and if any of the ingredients are hazardous substances as defined by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).	We have searched for any reference to the trade names as listed: Thurshan, Crovar, or Retard-X. The databases searched included: Chemfinder; ToxLaw; California Environmental Protection Agency (Cal EPA); U.S. Environmental Protection Agency (EPA); Dow Chemical, Dupont; American Cyanamid; American Chemical Society; Drexel: Google; and proprietary listings. The greatest problem is that these trade names are no longer used and there is no cross-reference. We found a possible reference to a chemical named Retardex, which is benzoic acid. The chemical may be used as a fungicide; however, this product is also used in food and not thought particularly harmful. We also found a reference to Crovar use with Roundup for weed control in Australia, but no mention of its composition. We reviewed the Environmental Baseline Survey Report (EBS), prepared by JEG 1995, that lists Thurshan, Crovar, and Retard-X. However, the source document referenced by the EBS, the Initial Assessment Study, 1986 lists Retard-X but does not list the names Thurshan or Crovar.

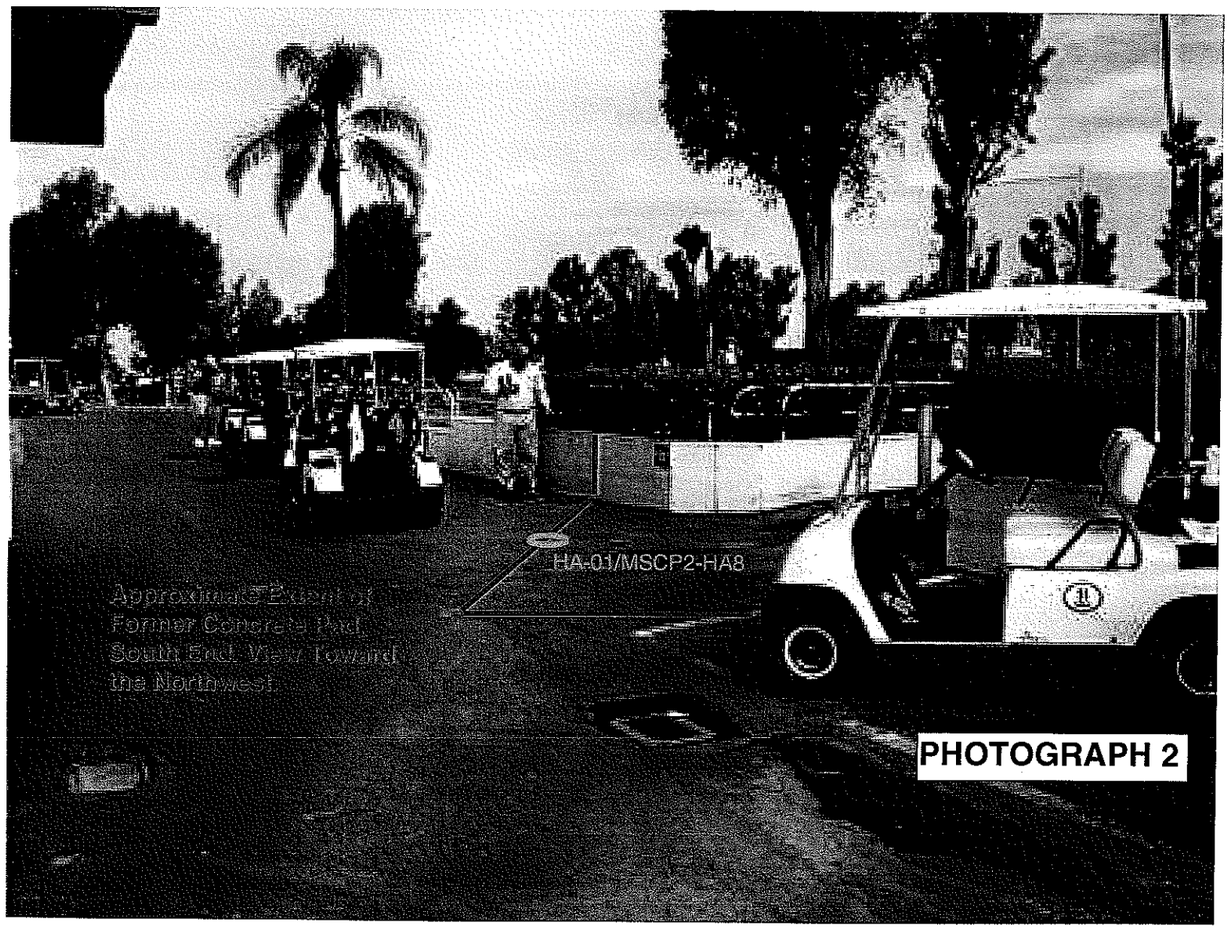
Comment No.	Section/Page Number	Comment	Shaw Environmental, Inc.'s Response
Specific Comments from Triss M. Chesney, P.E., Remedial Project Manager, Office of Military Facilities, dated August 21, 2000			
3.		A common name for kelthane is dicofol. Dicofol, diazinon, malathion and strychnine are identified as hazardous substances by CERCLA. These compounds were reportedly stored and mixed at MSC P2 and were not included in the analysis performed for the previous samples. Please include analysis for dicofol, diazinon, malathion and strychnine with the other potential contaminants in the soil samples collected.	Comment noted. Laboratory analysis of soil samples collected from MSC-P2-HA05 through MSC-P2-HA8 included dicofol, diazinon, malthion and strychnine. Dicofol was detected in one sample at a concentration of 0.0028 J mg/kg from boring MSCP2-HA05 (1-foot depth). Diazinon, malthion, and strychnine were not detected in any sample. A copy of the laboratory analytical results, along with a summary table for samples collected from MSC-P2-HA05 through MSC-P2-HA8, are included in Attachment 2. A screening-level risk calculation performed on May 1999 and October 2000 analytical results, resulted in a site-related cancer risk $5x10^{-8}$. A copy of the screening-level risk table is provided in Attachment 3.
4.		The proposed sample locations shown on Figure 2, Sample Locations, appear to differ from those shown on Exhibit 5, Extract for Historical Drawing of Golf Course Club House Area. Please clarify if the samples were collected around the perimeter of the concrete slab associated with the Quonset huts as intended.	The sample locations from May 1999 and October 2000 are provided in Figure 1, Attachment 1. Soil samples were collected around the perimeter of the former concrete slab associated with the former Quonset huts.

Attachment 1
MSCP2 Sample Locations at Former Concrete Pad



Approximate Extent of Former MSCP 2 Concrete Pad and Sample Locations - View Toward the Southwest

PHOTOGRAPH 1



PHOTOGRAPH 2

PHOTO #1
LOOKING SOUTHWEST

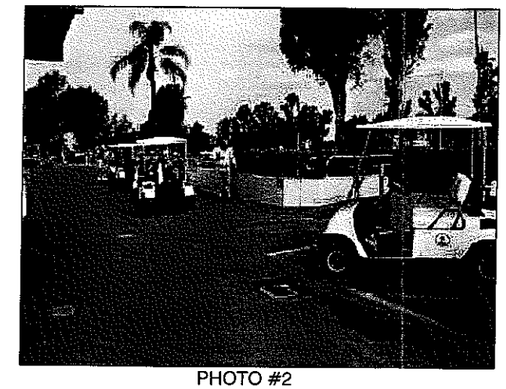
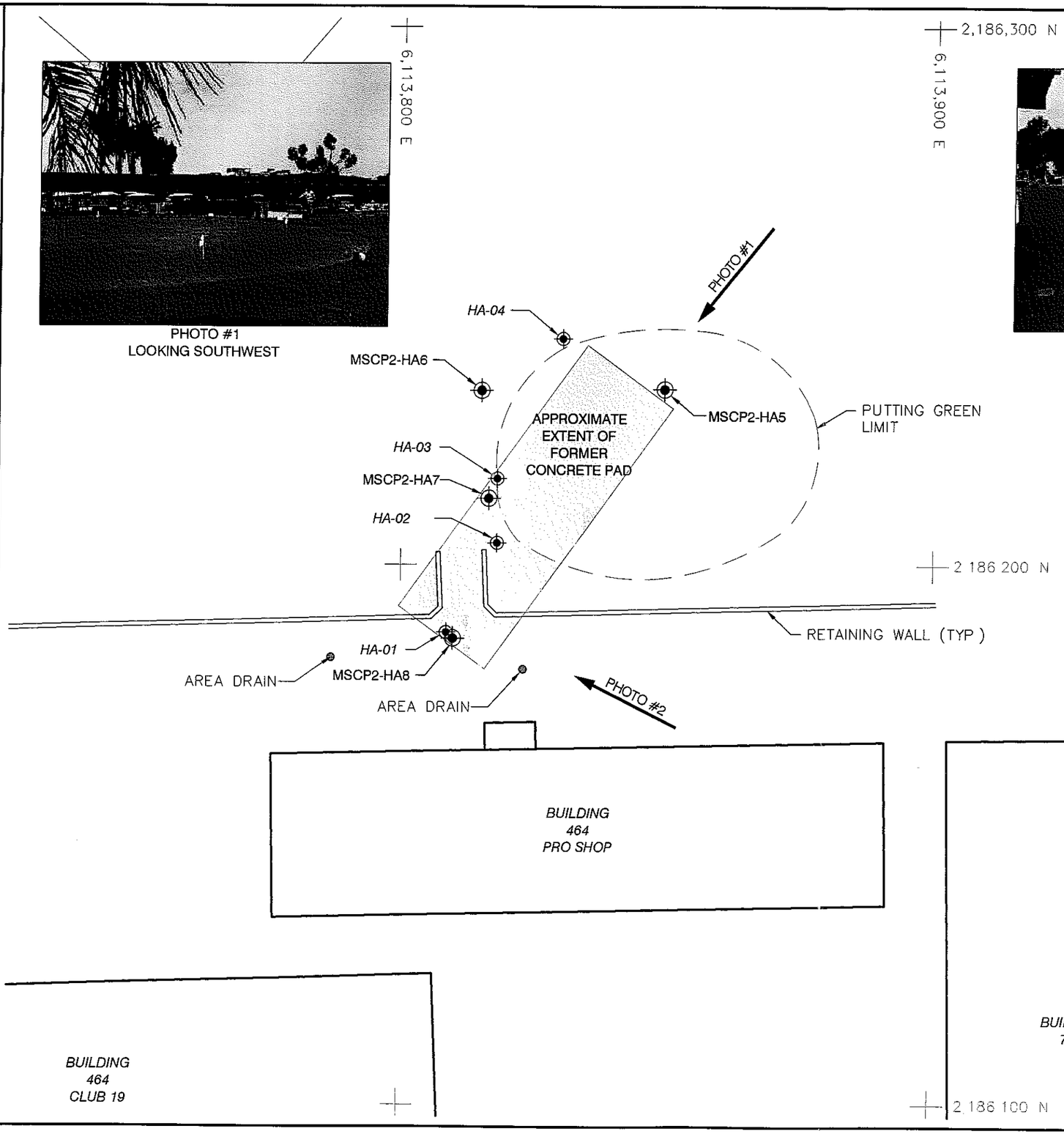


PHOTO #2
LOOKING NORTHWEST



Sample Location Coordinates

Location	Northing	Easting	Elevation
HA-01	2186187.44	6113808.55	334
HA-02	2186204.16	6113818.01	335.65
HA-03	2186216.15	6113817.98	335.7
HA-04	2186242.16	6113830.11	335.32
MSCP2-HA5	2186232.79	6113849.34	334.81
MSCP2-HA6	2186232.51	6113814.91	334.25
MSCP2-HA7	2186212.44	6113816.42	334.29
MSCP2-HA8	2186186.33	6113809.84	333.07

LEGEND

- SAMPLE LOCATIONS, OCTOBER 2000
- SAMPLE LOCATIONS, MAY 1999

TRUE NORTH
STATION NORTH
39°50 49'
N

GRAPHIC SCALE
0 10 20 40
(IN FEET)

Shaw
Shaw Environmental, Inc.

EFA WEST
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CTO 24

FIGURE 1
MSCP2 SAMPLE LOCATIONS AT FORMER CONCRETE PAD

MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

DRAWING NUMBER 818655363
APPROVED BY --
CHECKED BY --
DRAWN BY MY 5/23/03

6/1/2003 3:27 PM 818655363.dwg

Attachment 2
Summary of Analytical Results – MSC P2

Attachment 2
Summary of Analytical Results - MSC P2

Sample Identification					20242-3607	20242-3608	20242-3609	20242-3610	20242-3611	20242-3612	20242-3613
Location Code					MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA06	MSC-P2-HA06
					10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)					1.0	3.0	5.0	7.0	9.0	1.0	3.0
	Unit	Background	PRG Residential	PRG Industrial							
EPA 8081											
4,4'-DDD	mg/kg	0.0361	2.4	17	.089 U B	.048 U B	.048 U B	.047 U B	.049 U B	.054 U B	.058 U B
4,4'-DDE	mg/kg	0.145	1.7	12	.048 J	.028 U	.0038 J	.028 U	.002 J	.0035 J	.035 U
4,4'-DDT	mg/kg	0.236	1.7	12	.076 U	.041 U	.041 U	.041 U	.042 U	.0015 J	.05 U
Aldrin	mg/kg	NE	0.029	0.15	.047 U Y	.025 U	.025 U	.025 U	.025 U	.028 U	.031 U Y
alpha-BHC	mg/kg	NE	0.09	0.59	.04 U	.021 U	.022 U	.021 U	.022 U	.024 U	.026 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.032 U B	.017 U B	.017 U B	.017 U B	.017 U B	.019 U B	.021 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.07 U	.037 U	.038 U	.037 U	.038 U	.042 U	.046 U
Delta-BHC	mg/kg	NE	NE	NE	.023 U	.012 U	.013 U	.012 U	.013 U	.014 U	.015 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.074 U B Y	.04 U B Y	.04 U B Y	.04 U B Y	.04 U B Y	.045 U B Y	.049 U B Y
Endosulfan I	mg/kg	0.000179	370	5300	.044 U B	.024 U B	.024 U B	.024 U B	.024 U B	.027 U B	.029 U B
Endosulfan II	mg/kg	0.00222	370	5300	.051 U B	.027 U B	.027 U B	.027 U B	.028 U B	.031 U B	.033 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.076 U B	.041 U B	.041 U B	.041 U B	.042 U B	.046 U B	.05 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.034 U B	.018 U B	.018 U B	.018 U B	.018 U B	.02 U B	.022 U B
gamma-BHC	mg/kg	NE	0.44	2.9	.042 U	.023 U	.023 U	.023 U	.023 U	.026 U	.028 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.002 J	.017 U B	.017 U B	.017 U B	.017 U B	.001 J	.021 U B
Endrin	mg/kg	NE	0.11	0.55	.042 U	.023 U	.023 U	.023 U	.023 U	.026 U	.028 U
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.044 U	.024 U	.024 U	.024 U	.024 U	.027 U	.029 U
Methoxychlor	mg/kg	NE	310	4400	.12 U	.064 U	.065 U	.064 U	.066 U	.073 U	.079 U
Toxaphene	mg/kg	NE	0.44	2.2	1.5 U Y	.79 U Y	.8 U Y	.79 U Y	.81 U Y	.9 U Y	.97 U Y
Dicofol	mg/kg	NE	0.0011	0.0056	.0028 J Y	.0094 U Y X	.0094 U Y X	.0094 U Y X	.0096 U Y X	.011 U Y X	.012 U Y X
EPA 8141											
Diazinon	µg/kg	NE	55000	790000	110 U	110 U	110 U	110 U	120 U	130 U	140 U
Malathion	µg/kg	NE	1200000	18000000	110 U	110 U	110 U	110 U	120 U	130 U	140 U
EPA 8151											
2,4,5-T	µg/kg	NE	NE	NE	110 U	110 U	110 U	110 U	120 U	130 U	140 U
2,4,5-TP (Silvex)	µg/kg	NE	NE	NE	110 U	110 U	110 U	110 U	120 U	130 U	140 U
2,4-D	µg/kg	NE	NE	NE	11 U	11 U	11 U	11 U	12 U	13 U	6.7 J
2,4-DB	µg/kg	NE	NE	NE	11 U	4.4 J	11 U	11 U	12 U	13 U	14 U
Dalapon	µg/kg	NE	1800	26000	4200 U Y	4500 U Y	4600 U Y	4500 U Y	4600 U Y	5100 U Y	5600 U Y
Dicamba	µg/kg	NE	1800	26000	210 U	230 U	230 U	230 U	230 U	260 U	280 U
Dichlorprop	µg/kg	NE	NE	NE	530 U	570 U	570 U	560 U	580 U	640 U	690 U
Dinoseb	µg/kg	NE	61	880	53 U	57 U	57 U	56 U	58 U	64 U Y	69 U Y
MCPA	µg/kg	NE	NE	NE	1100 U	1100 U	1100 U	1100 U	1200 U	1600	1400 U
MCPP	µg/kg	NE	NE	NE	1100 U	1100 U	1100 U	1100 U	1200 U	1300 U	1400 U
EPA 8270											
Strychnine	µg/kg	NE	18000	260000	710 UJ	760 U	760 U	760 U	770 U	860 U	930 U

Attachment 2
Summary of Analytical Results - MSC P2

Sample Identification					20242-3614	20242-3615	20242-3616	20242-3617 (Dup)	20242-3618	20242-3619	20242-3620
Location Code					MSC-P2-HA06	MSC-P2-HA06	MSC-P2-HA06	MSC-P2-HA06	MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA07
					10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)					5.0	7.0	9.0	9.0	1.0	3.0	5.0
	Unit	**Background**	**PRG Residential**	**PRG Industrial**							
EPA 8081											
4,4'-DDD	mg/kg	0.0361	2.4	17	.049 U B	.047 U B	.047 U B	.046 U B	.044 U B	.046 U B	.047 U B
4,4'-DDE	mg/kg	0.145	1.7	12	.029 U	.028 U	.028 U	.028 U	.016 J	.0053 J	.028 U
4,4'-DDT	mg/kg	0.236	1.7	12	.042 U	.04 U	.04 U	.04 U	.002 J	.04 U	.041 U
Aldrin	mg/kg	NE	0.029	0.15	.026 U	.025 U	.025 U	.024 U	.023 U	.024 U	.025 U
alpha-BHC	mg/kg	NE	0.09	0.59	.022 U	.021 U	.021 U	.021 U	.02 U	.021 U	.021 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.018 U B	.017 U B	.017 U B	.017 U B	.016 U B	.016 U B	.017 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.039 U	.037 U	.037 U	.036 U	.035 U	.036 U	.037 U
Delta-BHC	mg/kg	NE	NE	NE	.013 U	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.041 U B Y	.039 U B Y	.039 U B Y	.039 U B Y	.037 U B Y	.038 U B Y	.04 U B Y
Endosulfan I	mg/kg	0.000179	370	5300	.025 U B	.024 U B	.023 U B	.023 U B	.022 U B	.023 U B	.024 U B
Endosulfan II	mg/kg	0.00222	370	5300	.028 U B	.027 U B	.027 U B	.026 U B	.025 U B	.026 U B	.027 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.042 U B	.04 U B	.04 U B	.04 U B	.038 U B	.04 U B	.041 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.019 U B	.018 U B	.018 U B	.018 U B	.017 U B	.018 U B	.018 U B
gamma-BHC	mg/kg	NE	0.44	2.9	.023 U	.022 U	.022 U	.022 U	.021 U	.022 U	.023 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.018 U B	.017 U B	.017 U B	.017 U B	.0014 J	.00031 J	.017 U B
Endrin	mg/kg	NE	0.11	0.55	.023 U	.022 U	.022 U	.022 U	.021 U	.022 U	.023 U
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.025 U	.024 U	.023 U	.023 U	.022 U	.023 U	.024 U
Methoxychlor	mg/kg	NE	310	4400	.067 U	.064 U	.064 U	.063 U	.06 U	.063 U	.064 U
Toxaphene	mg/kg	NE	0.44	2.2	.82 U Y	.78 U Y	.78 U Y	.77 U Y	.74 U Y	.77 U Y	.79 U Y
Dicofol	mg/kg	NE	0.0011	0.0056	.0097 U Y X	.0093 U Y X	.0093 U Y X	.0092 U Y X	.0088 U Y X	.0091 U Y X	.0094 U Y X
EPA 8141											
Diazinon	µg/kg	NE	55000	790000	120 U	110 U	110 U	110 U	110 U	110 U	110 U
Malathion	µg/kg	NE	1200000	18000000	120 U	110 U	110 U	110 U	110 U	110 U	110 U
EPA 8151											
2,4,5-T	µg/kg	NE	NE	NE	120 U	110 U	110 U	110 U	110 U	110 U	110 U
2,4,5-TP (Silvex)	µg/kg	NE	NE	NE	120 U	110 U	110 U	110 U	110 U	110 U	110 U
2,4-D	µg/kg	NE	NE	NE	12 U	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DB	µg/kg	NE	NE	NE	12 U	11 U	11 U	11 U	5.6 J	11 U	11 U
Dalapon	µg/kg	NE	1800	26000	4700 U Y	4500 U Y	4500 U Y	4400 U Y	4200 U Y	4400 U	4500 U
Dicamba	µg/kg	NE	1800	26000	230 U	220 U	220 U	220 U	210 U	220 U	230 U
Dichlorprop	µg/kg	NE	NE	NE	580 U	560 U	560 U	550 U	530 U	550 U	560 U
Dinoseb	µg/kg	NE	61	880	58 U	56 U	56 U	55 U	53 U	55 U	56 U
MCPA	µg/kg	NE	NE	NE	1200 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
MCPP	µg/kg	NE	NE	NE	1200 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
EPA 8270											
Strychnine	µg/kg	NE	18000	260000	780 U	750 U	750 U	740 U	710 U	740 U	760 U

Attachment 2
Summary of Analytical Results - MSC P2

Sample Identification					20242-3621	20242-3622 (Dup)	20242-3623	20242-3624	20242-3625	20242-3626
Location Code					MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA08	MSC-P2-HA08	MSC-P2-HA08
					10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)					7.0	7.0	9.0	1.0	3.0	5.0
	Unit	**Background**	**PRG Residential**	**PRG Industrial**						
EPA 8081										
4,4'-DDD	mg/kg	0.0361	2.4	17	.047 U B	.047 U B	.045 U B	.046 U B	.047 U B	.046 U B
4,4'-DDE	mg/kg	0.145	1.7	12	.028 U	.028 U	.027 U	.027 U	.028 U	.027 U
4,4'-DDT	mg/kg	0.236	1.7	12	.04 U	.04 U	.039 U	.039 U	.04 U	.039 U
Aldrin	mg/kg	NE	0.029	0.15	.024 U	.025 U	.024 U	.024 U	.024 U	.024 U
alpha-BHC	mg/kg	NE	0.09	0.59	.021 U	.021 U	.02 U	.021 U	.021 U	.021 U
alpha-Chlordane	mg/kg	0.00224	1.6	11	.017 U B	.017 U B	.016 U B	.016 U B	.017 U B	.016 U B
Beta-BHC	mg/kg	NE	0.32	2.1	.037 U	.037 U	.035 U	.036 U	.037 U	.036 U
Delta-BHC	mg/kg	NE	NE	NE	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U
Dieldrin	mg/kg	0.0199	0.03	0.15	.039 U B Y	.039 U B Y	.038 U B Y	.038 U B Y	.039 U B Y	.038 U B Y
Endosulfan I	mg/kg	0.000179	370	5300	.023 U B	.024 U B	.023 U B	.023 U B	.023 U B	.023 U B
Endosulfan II	mg/kg	0.00222	370	5300	.027 U B	.027 U B	.026 U B	.0011 J	.027 U B	.026 U B
Endosulfan sulfate	mg/kg	0.0031	NE	NE	.04 U B	.04 U B	.039 U B	.039 U B	.04 U B	.039 U B
Endrin aldehyde	mg/kg	0.00222	NE	NE	.018 U B	.018 U B	.017 U B	.018 U B	.018 U B	.017 U B
gamma-BHC	mg/kg	NE	0.44	2.9	.022 U	.022 U	.021 U	.022 U	.022 U	.022 U
gamma-Chlordane	mg/kg	0.0027	1.6	11	.017 U B	.017 U B	.016 U B	.016 U B	.017 U B	.016 U B
Endrin	mg/kg	NE	0.11	0.55	.022 U	.022 U	.021 U	.022 U	.022 U	.022 U
Heptachlor epoxide	mg/kg	NE	0.053	0.27	.023 U	.024 U	.023 U	.023 U	.023 U	.023 U
Methoxychlor	mg/kg	NE	310	4400	.063 U	.064 U	.061 U	.063 U	.063 U	.062 U
Toxaphene	mg/kg	NE	0.44	2.2	.78 U Y	.79 U Y	.75 U Y	.77 U Y	.78 U Y	.76 U Y
Dicofol	mg/kg	NE	0.0011	0.0056	.0092 U Y X	.0093 U Y X	.0089 U Y X	.0091 U Y X	.0092 U Y X	.009 U Y X
EPA 8141										
Diazinon	µg/kg	NE	55000	790000	110 U	110 U	110 U	110 U	110 U	110 U
Malathion	µg/kg	NE	1200000	18000000	110 U	110 U	110 U	110 U	110 U	110 U
EPA 8151										
2,4,5-T	µg/kg	NE	NE	NE	110 U	110 U	110 U	110 U	110 U	110 U
2,4,5-TP (Silvex)	µg/kg	NE	NE	NE	110 U	110 U	110 U	110 U	110 U	110 U
2,4-D	µg/kg	NE	NE	NE	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DB	µg/kg	NE	NE	NE	11 U	11 U	11 U	11 U	11 U	11 U
Dalapon	µg/kg	NE	1800	26000	4400 U	4500 U	4300 U	4400 U	4400 U	4300 U
Dicamba	µg/kg	NE	1800	26000	220 U	220 U	210 U	220 U	220 U	220 U
Dichlorprop	µg/kg	NE	NE	NE	550 U	560 U	540 U	550 U	550 U	540 U
Dinoseb	µg/kg	NE	61	880	55 U	56 U	54 U	55 U	55 U	54 U
MCPA	µg/kg	NE	NE	NE	1100 U	1100 U	3600	1100 U	1100 U	1100 U
MCPP	µg/kg	NE	NE	NE	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
EPA 8270										
Strychnine	µg/kg	NE	18000	260000	740 U	750 U	720 U	730 U	740 U	730 U

Attachment 2
Summary of Analytical Results - MSC P2

B - result exceeds established background limits
EPA - United States Environmental Protection Agency
MDL - method detection limit
mg/kg - milligrams per kilogram
NE - not established
PRG - Preliminary Remediation Goal, EPA Region IX, October 1999
RL - reporting limit
U - not detected above or equal to the stated reporting limit.
If the analyte had been detected between the MDL and RL the actual value would have been reported and flagged with a "J" qualifier. For the samples in question, the laboratory did not detect analyte concentrations between the MDL and the RL. As a result, the samples are qualified as non-detect ("U").
UJ - the sample detection limit is an estimated value
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/kg - micrograms per kilogram

Attachment 3
Risk Screening Worksheet for Soil

Attachment 3
Risk Screening Worksheet for Soil
MSC P2, Marine Corps Air Station, El Toro

Detected Chemical	Maximum MSC P2 Soil Concentration (mg/kg)	MCAS El Toro Background Concentration[A] (mg/kg)	CANCER			NON-CANCER		
			Residential PRG[B] (mg/kg)	MSC P2 Maximum Ratio[C]	MCAS El Toro Background Ratio[D]	Residential PRG[E] (mg/kg)	MSC P2 Maximum Ratio[F]	MCAS El Toro Background Ratio[F]
Organics								
Aldrin	0.0006	NE	2.9E-02	2.07E-02	2.07E-02	NE	NE	NE
Apha-BHC	0.0002	NE	9.0E-02	2.22E-03	2.22E-03	NE	NE	NE
4,4'-DDE	0.048	0.145	1.7E+00	2.82E-02	2.82E-02	NE	NE	NE
4,4'-DDT	0.002	0.236	1.7E+00	1.18E-03	1.18E-03	NE	NE	NE
gamma-Chlordane	0.002	0.0027	1.6E+00	1.25E-03	1.25E-03	NE	NE	NE
Endosulfan II	0.0011	0.00222	NE	NE	NE	3.7E+02	2.97E-06	6.00E-06
Dicofol	0.0028	NE	1.1E+00	2.55E-03	2.55E-03	NE	NE	NE
2,4-D	6.7	NE	NE	NE	NE	6.9E+02	9.71E-03	NE
2,4-DB	5.6	NE	NE	NE	NE	4.9E+02	1.14E-02	NE
MCPA	3.6	NE	NE	NE	NE	3.1E+01	1.16E-01	NE
Subtotal sum of ratios				5.61E-02	5.61E-02		1.37E-01	6.00E-06
MCAS EL TORO BACKGROUND RISK RATIOS			CANCER RISK		5.61E-08	NON-CANCER HAZARD INDEX		0.00
MSC P2 SUMMED RISK			CANCER RISK	5.61E-08		NON-CANCER HAZARD INDEX	0.14	
MSC P2 RISK LESS BACKGROUND RISK (NET RISK)			**NET CANCER RISK**	**0.00E+00**				

[A] *MCAS El Toro Background upper threshold limit concentrations from Final Technical Memorandum Background and Reference Levels, Bechtel National, Inc. 1996.*

[B] *Residential soil PRG for cancer from the EPA Region 9, November, 2002 list.*

[C] *The Ratio is determined by dividing the Concentration by the respective PRG.*

[D] *Where the background concentration exceeds the maximum concentration the background ratio was defaulted to the maximum ratio.*

[E] *Residential soil PRG for non-cancer from the EPA Region 9, November, 2002 list.*

[F] *The Ratio is determined by dividing the Concentration by the respective PRG.*

mg/kg - Milligrams per kilogram.

NE - Not established/No entry.

PRG - Preliminary remediation goal.

NE - Not established/No entry.

PRG - Preliminary remediation goal.

Transmittal

Date: **December 19, 2003**

From: **Dhananjay Rawal, Shaw E&I, Inc.**

To: **Rafat Abbasi, DTSC, Region 4**

Re: **Former Pesticide Storage Area, MSC P2 site**
Former MCAS El Toro, California

Per request of Lynn Hornecker, Navy RPM, attached are copies of hard copy of laboratory analytical reports and data validation reports for your file.

Please feel free to call me at (949)-660-7576 for any questions or if you need any other information related to MSC P2 site.

Thanks

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Table 1
Summary of Analytical Results — MSC P2

Sample Identification				20242-3607	20242-3608	20242-3609	20242-3610	20242-3611
Location Code				MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05
Date Sampled				10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)				1.0	3.0	5.0	7.0	9.0
	Unit	Background[1]	PRG Residential[2]					
EPA 8081								
4,4'-DDD	mg/kg	0.0361	2.4	.089 U {.002}	.048 U {.0011}	.048 U {.0022}	.047 U {.0011}	.049 U {.0011}
4,4'-DDE	mg/kg	0.145	1.7	.048 J	.028 U	.0038 J	.028 U	.002 J
4,4'-DDT	mg/kg	0.236	1.7	.076 U	.041 U	.041 U	.041 U	.042 U
Aldrin	mg/kg	NE	0.029	.047 U {.003}	.025 U	.025 U	.025 U	.025 U
alpha-BHC	mg/kg	NE	0.090	.04 U	.021 U	.022 U	.021 U	.022 U
alpha-Chlordane	mg/kg	0.00224	1.6	.032 U {.0018}	.017 U {.00023}	.017 U {.00023}	.017 U {.00023}	.017 U {.00023}
Beta-BHC	mg/kg	NE	0.32	.07 U	.037 U	.038 U	.037 U	.038 U
Delta-BHC	mg/kg	NE	NE	.023 U	.012 U	.013 U	.012 U	.013 U
Dieldrin	mg/kg	0.0199	0.030	.074 U {.0015}	.04 U {.00081}	.04 U {.00081}	.04 U {.00081}	.04 U {.00083}
Endosulfan I	mg/kg	0.000179	370	.044 U {.0011}	.024 U {.00057}	.024 U {.00058}	.024 U {.00057}	.024 U {.00037}
Endosulfan II	mg/kg	0.00222	370	.051 U {.001}	.027 U {.00054}	.027 U {.00054}	.027 U {.00054}	.028 U {.00055}
Endosulfan sulfate	mg/kg	0.0031	NE	.076 U {.0011}	.041 U {.00059}	.041 U {.0006}	.041 U {.00059}	.042 U {.00061}
Endrin	mg/kg	0.00222	18	.076 U {.00092}	.041 U {.00049}	.041 U {.00049}	.041 U {.00049}	.042 U {.0005}
Endrin aldehyde	mg/kg	0.00222	NE	.034 U {.00092}	.018 U {.00054}	.018 U {.00054}	.018 U {.00054}	.018 U {.00055}
gamma-BHC	mg/kg	NE	0.44	.042 U	.023 U	.023 U	.023 U	.023 U
gamma-Chlordane	mg/kg	0.0027	1.6	.002 J	.017 U {.00029}	.017 U {.00029}	.017 U {.00029}	.017 U {.00029}
Heptachlor	mg/kg	NE	0.11	.042 U	.023 U	.023 U	.023 U	.023 U
Heptachlor epoxide	mg/kg	NE	0.053	.044 U	.024 U	.024 U	.024 U	.024 U
Methoxychlor	mg/kg	NE	310	.12 U	.064 U	.065 U	.064 U	.066 U
Toxaphene	mg/kg	NE	0.44	1.5 U {.031}	.79 U {.017}	.8 U {.017}	.79 U {.016}	.81 U {.017}
Dicofol	mg/kg	NE	1.1	.0028 J	.0094 U	.0094 U	.0094 U	.0096 U
EPA 8141								
Diazinon	µg/kg	NE	55000	110 U	110 U	110 U	110 U	120 U
Malathion	µg/kg	NE	1200000	110 U	110 U	110 U	110 U	120 U
EPA 8151								
2,4,5-T	µg/kg	NE	610000	110 U	110 U	110 U	110 U	120 U
2,4,5-TP (Silvex)	µg/kg	NE	490000	110 U	110 U	110 U	110 U	120 U
2,4-D	µg/kg	NE	690000	11 U	11 U	11 U	11 U	12 U
2,4-DB	µg/kg	NE	490000	11 U	4.4 J	11 U	11 U	12 U
Dalapon	µg/kg	NE	1800000	4200 U	4500 U	4600 U	4500 U	4600 U
Dicamba	µg/kg	NE	1800000	210 U	230 U	230 U	230 U	230 U

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Table 1
Summary of Analytical Results — MSC P2

Sample Identification				20242-3607	20242-3608	20242-3609	20242-3610	20242-3611
Location Code				MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05	MSC-P2-HA05
Date Sampled				10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)				1.0	3.0	5.0	7.0	9.0
	Unit	Background[1]	PRG Residential[4]					
Dichlorprop	µg/kg	67.2	NE	530 U {.81}	570 U {.87}	570 U {.87}	560 U {.87}	580 U {.89}
Dinoseb	µg/kg	NE	61000	53 U	57 U	57 U	56 U	58 U
MCPA	µg/kg	28500	31000	1100 U	1100 U	1100 U	1100 U	1200 U
MCPP	µg/kg	NE	61000	1100 U	1100 U	1100 U	1100 U	1200 U
EPA 8270								
Strychnine	µg/kg	NE	18000	710 UJ	760 U	760 U	760 U	770 U

Table 1
Summary of Analytical Results — MSC P2

Sample Identification				20242-3612	20242-3613	20242-3614	20242-3615	20242-3616
Location Code				MSC-P2-HA06	MSC-P2-HA06	MSC-P2-HA06	MSC-P2-HA06	MSC-P2-HA06
Date Sampled				10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)				1.0	3.0	5.0	7.0	9.0
	Unit	Background[1]	PRG Residential[2]					
EPA 8081								
4,4'-DDD	mg/kg	0.0361	2.4	.054 U {.0012}	.058 U {.0013}	.049 U {.0011}	.047 U {.0011}	.047 U {.0011}
4,4'-DDE	mg/kg	0.145	1.7	.0035 J	.035 U	.029 U	.028 U	.028 U
4,4'-DDT	mg/kg	0.236	1.7	.0015 J	.05 U	.042 U	.04 U	.04 U
Aldrin	mg/kg	NE	0.029	.028 U	.031 U {.002}	.026 U	.025 U	.025 U
alpha-BHC	mg/kg	NE	0.090	.024 U	.026 U	.022 U	.021 U	.021 U
alpha-Chlordane	mg/kg	0.00224	1.6	.019 U {.0011}	.021 U {.00028}	.018 U {.00023}	.017 U {.00023}	.017 U {.00022}
Beta-BHC	mg/kg	NE	0.32	.042 U	.046 U	.039 U	.037 U	.037 U
Delta-BHC	mg/kg	NE	NE	.014 U	.015 U	.013 U	.012 U	.012 U
Dieldrin	mg/kg	0.0199	0.030	.045 U {.00092}	.049 U {.00099}	.041 U {.00084}	.039 U {.0008}	.039 U {.0008}
Endosulfan I	mg/kg	0.000179	370	.027 U {.00065}	.029 U {.0007}	.025 U {.00059}	.024 U {.00057}	.023 U {.00057}
Endosulfan II	mg/kg	0.00222	370	.031 U {.00061}	.033 U {.00066}	.028 U {.00056}	.027 U {.00053}	.027 U {.00053}
Endosulfan sulfate	mg/kg	0.0031	NE	.046 U {.00067}	.05 U {.00073}	.042 U {.00061}	.04 U {.00059}	.04 U {.00059}
Endrin	mg/kg	0.00222	18	.046 U {.00055}	.05 U {.0006}	.042 U {.00051}	.04 U {.00048}	.04 U {.00048}
Endrin aldehyde	mg/kg	0.00222	NE	.02 U {.00061}	.022 U {.00067}	.019 U {.00056}	.018 U {.00054}	.018 U {.00053}
gamma-BHC	mg/kg	NE	0.44	.026 U	.028 U	.023 U	.022 U	.022 U
gamma-Chlordane	mg/kg	0.0027	1.6	.001 J	.021 U {.00035}	.018 U {.0003}	.017 U {.00029}	.017 U {.00028}
Heptachlor	mg/kg	NE	0.11	.026 U	.028 U	.023 U	.022 U	.022 U
Heptachlor epoxide	mg/kg	NE	0.053	.027 U	.029 U	.025 U	.024 U	.023 U
Methoxychlor	mg/kg	NE	310	.073 U	.079 U	.067 U	.064 U	.064 U
Toxaphene	mg/kg	NE	0.44	.9 U {.019}	.97 U {.02}	.82 U {.017}	.78 U {.016}	.78 U {.016}
Dicofol	mg/kg	NE	1.1	.011 U	.012 U	.0097 U	.0093 U	.0093 U
EPA 8141								
Diazinon	µg/kg	NE	55000	130 U	140 U	120 U	110 U	110 U
Malathion	µg/kg	NE	1200000	130 U	140 U	120 U	110 U	110 U
EPA 8151								
2,4,5-T	µg/kg	NE	610000	130 U	140 U	120 U	110 U	110 U
2,4,5-TP (Silvex)	µg/kg	NE	490000	130 U	140 U	120 U	110 U	110 U
2,4-D	µg/kg	NE	690000	13 U	6.7 J	12 U	11 U	11 U
2,4-DB	µg/kg	NE	490000	13 U	14 U	12 U	11 U	11 U
Dalapon	µg/kg	NE	1800000	5100 U	5600 U	4700 U	4500 U	4500 U
Dicamba	µg/kg	NE	1800000	260 U	280 U	230 U	220 U	220 U

Table 1
Summary of Analytical Results — MSC P2

Sample Identification Location Code Date Sampled Depth (feet below ground surface)				20242-3612 MSC-P2-HA06 10/06/00 1.0	20242-3613 MSC-P2-HA06 10/06/00 3.0	20242-3614 MSC-P2-HA06 10/06/00 5.0	20242-3615 MSC-P2-HA06 10/06/00 7.0	20242-3616 MSC-P2-HA06 10/06/00 9.0
	Unit	**Background[1]**	**PRG Residential[2]**					
Dichlorprop	µg/kg	67.2	NE	640 U {.98}	690 U {1.1}	580 U {1.3}	560 U {.86}	560 U {.86}
Dinoseb	µg/kg	NE	61000	64 U	69 U	58 U	56 U	56 U
MCPA	µg/kg	28500	31000	1600	1400 U	1200 U	1100 U	1100 U
MCPP	µg/kg	NE	61000	1300 U	1400 U	1200 U	1100 U	1100 U
EPA 8270								
Strychnine	µg/kg	NE	18000	860 U	930 U	780 U	750 U	750 U

Table 1
Summary of Analytical Results — MSC P2

Sample Identification				20242-3617 (Dup)	20242-3618	20242-3619	20242-3620	20242-3621
Location Code				MSC-P2-HA06	MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA07
Date Sampled				10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)				9.0	1.0	3.0	5.0	7.0
	Unit	Background[1]	PRG Residential[2]					
EPA 8081								
4,4'-DDD	mg/kg	0.0361	2.4	.046 U {.001}	.044 U {.0021}	.046 U {.001}	.047 U {.0011}	.047 U {.001}
4,4'-DDE	mg/kg	0.145	1.7	.028 U	.016 J	.0053 J	.028 U	.028 U
4,4'-DDT	mg/kg	0.236	1.7	.04 U	.002 J	.04 U	.041 U	.04 U
Aldrin	mg/kg	NE	0.029	.024 U	.023 U	.024 U	.025 U	.024 U
alpha-BHC	mg/kg	NE	0.090	.021 U	.02 U	.021 U	.021 U	.021 U
alpha-Chlordane	mg/kg	0.00224	1.6	.017 U {.00022}	.016 U {.0009}	.016 U {.00022}	.017 U {.00023}	.017 U {.00022}
Beta-BHC	mg/kg	NE	0.32	.036 U	.035 U	.036 U	.037 U	.037 U
Delta-BHC	mg/kg	NE	NE	.012 U	.012 U	.012 U	.012 U	.012 U
Dieldrin	mg/kg	0.0199	0.030	.039 U {.00079}	.037 U {.00075}	.038 U {.00079}	.04 U {.00081}	.039 U {.00079}
Endosulfan I	mg/kg	0.000179	370	.023 U {.00056}	.022 U {.00053}	.023 U {.00056}	.024 U {.00057}	.023 U {.00056}
Endosulfan II	mg/kg	0.00222	370	.026 U {.00053}	.025 U {.0009}	.026 U {.00052}	.027 U {.00054}	.027 U {.00053}
Endosulfan sulfate	mg/kg	0.0031	NE	.04 U {.00058}	.038 U {.00055}	.04 U {.00058}	.041 U {.00059}	.04 U {.00058}
Endrin	mg/kg	0.00222	18	.04 U {.00048}	.038 U {.00046}	.04 U {.00048}	.041 U {.00049}	.04 U {.00048}
Endrin aldehyde	mg/kg	0.00222	NE	.018 U {.00053}	.017 U {.00051}	.018 U {.00053}	.018 U {.00054}	.018 U {.00053}
gamma-BHC	mg/kg	NE	0.44	.022 U	.021 U	.022 U	.023 U	.022 U
gamma-Chlordane	mg/kg	0.0027	1.6	.017 U {.00028}	.0014 J	.00031 J	.017 U {.00029}	.017 U {.00028}
Heptachlor	mg/kg	NE	0.11	.022 U	.021 U	.022 U	.023 U	.022 U
Heptachlor epoxide	mg/kg	NE	0.053	.023 U	.022 U	.023 U	.024 U	.023 U
Methoxychlor	mg/kg	NE	310	.063 U	.06 U	.063 U	.064 U	.063 U
Toxaphene	mg/kg	NE	0.44	.77 U {.016}	.74 U {.015}	.77 U {.016}	.79 U {.016}	.78 U {.016}
Dicofol	mg/kg	NE	1.1	.0092 U	.0088 U	.0091 U	.0094 U	.0092 U
EPA 8141								
Diazinon	µg/kg	NE	55000	110 U	110 U	110 U	110 U	110 U
Malathion	µg/kg	NE	1200000	110 U	110 U	110 U	110 U	110 U
EPA 8151								
2,4,5-T	µg/kg	NE	610000	110 U	110 U	110 U	110 U	110 U
2,4,5-TP (Silvex)	µg/kg	NE	490000	110 U	110 U	110 U	110 U	110 U
2,4-D	µg/kg	NE	690000	11 U	11 U	11 U	11 U	11 U
2,4-DB	µg/kg	NE	490000	11 U	5.6 J	11 U	11 U	11 U
Dalapon	µg/kg	NE	1800000	4400 U	4200 U	4400 U	4500 U	4400 U
Dicamba	µg/kg	NE	1800000	220 U	210 U	220 U	230 U	220 U

Table 1
Summary of Analytical Results — MSC P2

Sample Identification Location Code Date Sampled Depth (feet below ground surface)				20242-3617 (Dup) MSC-P2-HA06 10/06/00 9.0	20242-3618 MSC-P2-HA07 10/06/00 1.0	20242-3619 MSC-P2-HA07 10/06/00 3.0	20242-3620 MSC-P2-HA07 10/06/00 5.0	20242-3621 MSC-P2-HA07 10/06/00 7.0
	Unit	**Background[1]**	**PRG Residential[2]**					
Dichlorprop	µg/kg	67.2	NE	550 U {.85}	530 U {.81}	550 U {.84}	560 U {.87}	550 U {.85}
Dinoseb	µg/kg	NE	61000	55 U	53 U	55 U	56 U	55 U
MCPA	µg/kg	28500	31000	1100 U	1100 U	1100 U	1100 U	1100 U
MCPP	µg/kg	NE	61000	1100 U	1100 U	1100 U	1100 U	1100 U
EPA 8270								
Strychnine	µg/kg	NE	18000	740 U	710 U	740 U	760 U	740 U

Table 1
Summary of Analytical Results — MSC P2

Sample Identification				20242-3622 (Dup)	20242-3623	20242-3624	20242-3625	20242-3626
Location Code				MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA08	MSC-P2-HA08	MSC-P2-HA08
Date Sampled				10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)				7.0	9.0	1.0	3.0	5.0
	Unit	Background[1]	PRG Residential[2]					
EPA 8081								
4,4'-DDD	mg/kg	0.0361	2.4	.047 U {.0011}	.045 U {.001}	.046 U {.001}	.047 U {.001}	.046 U {.001}
4,4'-DDE	mg/kg	0.145	1.7	.028 U	.027 U	.027 U	.028 U	.027 U
4,4'-DDT	mg/kg	0.236	1.7	.04 U	.039 U	.039 U	.04 U	.039 U
Aldrin	mg/kg	NE	0.029	.025 U	.024 U	.024 U	.024 U	.024 U
alpha-BHC	mg/kg	NE	0.090	.021 U	.02 U	.021 U	.021 U	.021 U
alpha-Chlordane	mg/kg	0.00224	1.6	.017 U {.00023}	.016 U {.00022}	.016 U {.00022}	.017 U {.00022}	.016 U {.00022}
Beta-BHC	mg/kg	NE	0.32	.037 U	.035 U	.036 U	.037 U	.036 U
Delta-BHC	mg/kg	NE	NE	.012 U	.012 U	.012 U	.012 U	.012 U
Dieldrin	mg/kg	0.0199	0.030	.039 U {.0008}	.038 U {.00077}	.038 U {.00078}	.039 U {.00079}	.038 U {.00077}
Endosulfan I	mg/kg	0.000179	370	.024 U {.00057}	.023 U {.00054}	.023 U {.00056}	.023 U {.00056}	.023 U {.00055}
Endosulfan II	mg/kg	0.00222	370	.027 U {.00053}	.026 U {.00051}	.0011 J	.027 U {.00053}	.026 U {.00052}
Endosulfan sulfate	mg/kg	0.0031	NE	.04 U {.00059}	.039 U {.00056}	.039 U {.00058}	.04 U {.00058}	.039 U {.00057}
Endrin	mg/kg	0.00222	18	.04 U {.00049}	.039 U {.00047}	.039 U {.00047}	.04 U {.00048}	.039 U {.00047}
Endrin aldehyde	mg/kg	0.00222	NE	.018 U {.00054}	.017 U {.00051}	.018 U {.00053}	.018 U {.00053}	.017 U {.00052}
gamma-BHC	mg/kg	NE	0.44	.022 U	.021 U	.022 U	.022 U	.022 U
gamma-Chlordane	mg/kg	0.0027	1.6	.017 U {.00029}	.016 U {.00027}	.016 U {.00028}	.017 U {.00028}	.016 U {.00028}
Heptachlor	mg/kg	NE	0.11	.022 U	.021 U	.022 U	.022 U	.022 U
Heptachlor epoxide	mg/kg	NE	0.053	.024 U	.023 U	.023 U	.023 U	.023 U
Methoxychlor	mg/kg	NE	310	.064 U	.061 U	.063 U	.063 U	.062 U
Toxaphene	mg/kg	NE	0.44	.79 U {.016}	.75 U {.016}	.77 U {.016}	.78 U {.016}	.76 U {.016}
Dicofol	mg/kg	NE	1.1	.0093 U	.0089 U	.0091 U	.0092 U	.009 U
EPA 8141								
Diazinon	µg/kg	NE	55000	110 U	110 U	110 U	110 U	110 U
Malathion	µg/kg	NE	1200000	110 U	110 U	110 U	110 U	110 U
EPA 8151								
2,4,5-T	µg/kg	NE	610000	110 U	110 U	110 U	110 U	110 U
2,4,5-TP (Silvex)	µg/kg	NE	490000	110 U	110 U	110 U	110 U	110 U
2,4-D	µg/kg	NE	690000	11 U	11 U	11 U	11 U	11 U
2,4-DB	µg/kg	NE	490000	11 U	11 U	11 U	11 U	11 U
Dalapon	µg/kg	NE	1800000	4500 U	4300 U	4400 U	4400 U	4300 U
Dicamba	µg/kg	NE	1800000	220 U	210 U	220 U	220 U	220 U

Table 1
Summary of Analytical Results — MSC P2

Sample Identification				20242-3622 (Dup)	20242-3623	20242-3624	20242-3625	20242-3626
Location Code				MSC-P2-HA07	MSC-P2-HA07	MSC-P2-HA08	MSC-P2-HA08	MSC-P2-HA08
Date Sampled				10/06/00	10/06/00	10/06/00	10/06/00	10/06/00
Depth (feet below ground surface)				7.0	9.0	1.0	3.0	5.0
	Unit	Background[1]	PRG Residential[2]					
Dichlorprop	µg/kg	67.2	NE	560 U {.86}	540 U {1.2}	550 U {.84}	550 U {.85}	540 U {.83}
Dinoseb	µg/kg	NE	61000	56 U	54 U	55 U	55 U	54 U
MCPA	µg/kg	28500	31000	1100 U	3600	1100 U	1100 U	1100 U
MCPP	µg/kg	NE	61000	1100 U	1100 U	1100 U	1100 U	1100 U
EPA 8270								
Strychnine	µg/kg	NE	18000	750 U	720 U	730 U	740 U	730 U

Table 1
Summary of Analytical Results — MSC P2

Explanations :

EPA - United States Environmental Protection Agency
J - estimated value
mg/kg - milligrams per kilogram
NE - not established
PRG - preliminary remedial goals
U - not detected at or above the stated reporting limit
V - result exceeds residential PRGs
µg/kg - micrograms per kilogram
< > - California Modified preliminary remedial goal
{ } - laboratory method detection limit

[1] Bechtel National, Inc. 1996. Draft Report Anthropogenic PAH Reference-Level Study Marine Corps Air Station, El Toro, California. May.
Bechtel National, Inc. 1996. Final Technical Memorandum Background and Reference Levels Remedial Investigations, Marine Corps Air Station, El Toro, California. October.

[2] EPA Region IX. 2002. Preliminary Remedial Goals (PRG). October.

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

12326

FORM 0019 REV. 9-99

MSCP2

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 003058	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: MSCP 2	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 20242	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: BLDG 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92612		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8309			

Item	Sample Identifier	Matrix	2000 Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: PCBs, 8081	Herb. 8151A	8141A Organo Phosphorus Pesticides	Malathion	8270 SC Semivolatiles	Diesel	Alkane Chain	Cooler	Comments
1	20242 - ~~HA-4~~ 3607	S	10-6	0850	4°C	1	3	5 day	X	X	X		X	X	X	X	
2	20242 - ~~HA-0~~ 3608	↓	↓	0810	↓	↓	↓	↓	↓	↓	↓		↓	↓	↓	↓	
3	20242 - ~~HA-~~ 3609			0825													
4	20242 - ~~HA-~~ 3610			0840													
5	20242 - ~~HA-~~ 3611			0845													
6	20242 - ~~HA-~~ 3612			0920													
7	20242 - ~~HA-~~ 3613			0935													
8	20242 - ~~HA-~~ 3614			0940													
9	20242 - 3615			0950													
10	20242 - 3616			1000													

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Wm. Lyn Jeff	[illegible signature]	10-6-00	3:00	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

MSCP2

Sample Point Location	Sample Type: G	C	F	QC
① MSCP2-HA-05 @ 1.0'-1.5'	X			
② MSCP2-HA-05 @ 3.0'-3.5'	X			
③ MSCP2-HA-05 @ 5.0'-5.5'	X			
④ MSCP2-HA-05 @ 7.0'-7.5'	X			
⑤ MSCP2-HA-05 @ 9.0'-9.5'	X			
⑥ MSCP2-HA-06 @ 1.0'-1.5'	X			
⑦ MSCP2-HA-06 @ 3.0'-3.5'	X			
⑧ MSCP2-HA-06 @ 5.0'-5.5'	X			
⑨ MSCP2-HA-06 @ 7.0'-7.5'	X			
⑩ MSCP2-HA-06 @ 9.0'-9.5'	X			

Comments

due 10/16/00 rec'd 10/16/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6027

SCANNED LEIEW 4W, 0 ... 10/11/8

the i group — IT Corporation, 2790 Mosside Blvd., Monroeville, PA 15146-2792, (412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12344

FORM 0019 REV. 9-99

MSCP2

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-600-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 007058	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: MCSP 2	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 20242	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: DWayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: BLDG 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92612		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-600-7576	PROJECT MANAGER'S FAX: 949-474-8309			

Item	Sample Identifier	Matrix	Date 2000	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: Post. 8081	Herb. 8151A	8141A Diazion	Malathion	8270 C/Stoichiometric	Chlorpyrifos	Ethyl Parathion (Lewis)	Comments
1	20242-3617	S	10-6	1005	4°C	1	4	3 day	X	X	X		X	X	X	
2	20242-3618			1025			3									
3	20242-3619			1030												
4	20242-3620			1040												
5	20242-3621			1050												
6	20242-3622			1055			4									
7	20242-3623			1100			3									
8	20242-3624			1115			3									
9	20242-3625			1125			3									
10	20242-3626			1150			3									

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[illegible signature]	[illegible signature]	10-6-00	300	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

MSCP2

Sample Point Location	Sample Type G	C	F	QC
① MSCP2-HA-06 @ 9.0-9.5' (DUP)	X			X
② MSCP2-HA-07 @ 1.0'-1.5'	X			
③ MSCP2-HA-07 @ 3.0'-3.5'	X			
④ MSCP2-HA-07 @ 5.0'-5.5'	X			
⑤ MSCP2-HA-07 @ ~~9.0'-9.5'~~ 7.0-7.5	X			
⑥ ~~HA~~ MSCP2-HA-07 @ 7.0'-7.5' (DUP)	X			X
⑦ ~~@ 9.0'~~ MSCP2-HA-07 @ 9.0'-9.5'	X			
⑧ MSCP2-HA-08 @ 1.0'-1.5'	X			
⑨ MSCP2-HA-08 @ 3.0'-3.5'	X			
⑩ MSCP2-HA-08 @ 5.0'-5.5'	X			

Comments: due 10/16/00 rec'd 10/16/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

AC

6027

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 10-30-2000
EMAX Batch No.: 00J058

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/20242/D.O. 112

Enclosed is the Laboratory report for samples received on 10/06/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
20242-3607	J058-01	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3608	J058-02	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3609	J058-03	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3610	J058-04	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS

Sample ID	Control #	Col Date	Matrix	Analysis
				DIFOCOL
20242-3611	J058-05	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3612	J058-06	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3613	J058-07	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3614	J058-08	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3615	J058-09	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3616	J058-10	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3617	J058-11	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3618	J058-12	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL

EMAX LABORATORIES, INC., 630 Maple Ave. Torrance CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

Sample ID	Control #	Col Date	Matrix	Analysis
20242-3619	J058-13	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3620	J058-14	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3621	J058-15	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3622	J058-16	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3623	J058-17	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3624	J058-18	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3625	J058-19	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED PESTICIDES ORGANOPHOSPHORUS SEMIVOLATILE ORGANICS BY GCMS DIFOCOL
20242-3626	J058-20	10/06/00	SOIL	PESTICIDES ORGANOCHLORINE HERBICIDES CHLORINATED SEMIVOLATILE ORGANICS BY GCMS PESTICIDES ORGANOPHOSPHORUS DIFOCOL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave. Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3607	Date Analyzed:	10/10/00 20:22
Lab Samp ID:	J058-01	Dilution Factor:	1
Lab File ID:	RJB084	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	5.5
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	710	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	69	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3608	Date Analyzed:	10/10/00 22:19
Lab Samp ID:	J058-02	Dilution Factor:	1
Lab File ID:	RJB087	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	11.6
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	760	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	82	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3609	Date Analyzed: 10/10/00 22:58
Lab Samp ID: J058-03	Dilution Factor: 1
Lab File ID: RJB088	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 12.1
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	760	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	89	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3610	Date Analyzed:	10/10/00 23:37
Lab Samp ID:	J058-04	Dilution Factor:	1
Lab File ID:	RJB089	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	11.4
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	760	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	80	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3611	Date Analyzed: 10/11/00 00:16
Lab Samp ID: J058-05	Dilution Factor: 1
Lab File ID: RJB090	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 13.5
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	770	280

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	83	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3612	Date Analyzed: 10/11/00 19:18
Lab Samp ID: J058-06	Dilution Factor: 1
Lab File ID: RJB111	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 21.9
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	860	310

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	91	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3613	Date Analyzed:	10/11/00 01:34
Lab Samp ID:	J058-07	Dilution Factor:	1
Lab File ID:	RJB092	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	28.0
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	930	330

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	101	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3614	Date Analyzed: 10/11/00 02:13
Lab Samp ID: J058-08	Dilution Factor: 1
Lab File ID: RJB093	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 14.4
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	780	280

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	91	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3615	Date Analyzed:	10/11/00 02:52
Lab Samp ID:	J058-09	Dilution Factor:	1
Lab File ID:	RJB094	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	10.7
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	750	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	100	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3616	Date Analyzed: 10/11/00 03:31
Lab Samp ID: J058-10	Dilution Factor: 1
Lab File ID: RJB095	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 10.4
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	750	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	104	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3617	Date Analyzed:	10/11/00 04:10
Lab Samp ID:	J058-11	Dilution Factor:	1
Lab File ID:	RJB096	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	9.4
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	740	260

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	88	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3618	Date Analyzed: 10/11/00 19:57
Lab Samp ID: J058-12	Dilution Factor: 1
Lab File ID: RJB112	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 5.2
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	710	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	93	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3619	Date Analyzed:	10/11/00 05:27
Lab Samp ID:	J058-13	Dilution Factor:	1
Lab File ID:	RJB098	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	9.0
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	740	260

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	101	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3620	Date Analyzed: 10/11/00 14:46
Lab Samp ID: J058-14	Dilution Factor: 1
Lab File ID: RJB104	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 11.4
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	760	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	73	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3621	Date Analyzed:	10/11/00 15:25
Lab Samp ID:	J058-15	Dilution Factor:	1
Lab File ID:	RJ8105	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	9.9
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	740	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	77	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3622	Date Analyzed: 10/11/00 16:04
Lab Samp ID: J058-16	Dilution Factor: 1
Lab File ID: RJB106	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 10.9
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	750	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	80	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3623	Date Analyzed:	10/11/00 16:42
Lab Samp ID:	J058-17	Dilution Factor:	1
Lab File ID:	RJB107	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	6.9
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	720	260

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	76	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.Q. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3624	Date Analyzed:	10/11/00 17:21
Lab Samp ID:	J058-18	Dilution Factor:	1
Lab File ID:	RJB108	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	8.8
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	730	260

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	72	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/10/00 19:30
Sample ID:	20242-3625	Date Analyzed:	10/11/00 18:00
Lab Samp ID:	J058-19	Dilution Factor:	1
Lab File ID:	RJB109	Matrix :	SOIL
Ext Btch ID:	SVJ013S	% Moisture :	9.9
Calib. Ref.:	RIB224	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	740	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	79	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: 20242-3626	Date Analyzed: 10/11/00 18:39
Lab Samp ID: J058-20	Dilution Factor: 1
Lab File ID: RJB110	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : 7.7
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	730	260

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	76	32-136

PRL : Project Reporting Limit

METHOD 3550A/8270B
SEMIVOLATILE ORGANICS BY GC/MS

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/20242/D.O. 112	Date Received: NA
Batch No. : 00J058	Date Extracted: 10/10/00 19:30
Sample ID: MBLK1S	Date Analyzed: 10/10/00 19:04
Lab Samp ID: SVJ013SB	Dilution Factor: 1
Lab File ID: RJB082	Matrix : SOIL
Ext Btch ID: SVJ013S	% Moisture : NA
Calib. Ref.: RIB224	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
STRYCHNINE	ND	670	240

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	75	32-136

PRL : Project Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: METHOD 3550A/8270B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	SVJ013SB	SVJ013SL	SVJ013SC		
LAB FILE ID:	RJB082	RJB102	RJB103		
DATE EXTRACTED:	10/10/0019:30	10/10/0019:30	10/10/0019:30	DATE COLLECTED:	NA
DATE ANALYZED:	10/10/0019:04	10/11/0013:29	10/11/0014:08	DATE RECEIVED:	NA
PREP. BATCH:	SVJ013S	SVJ013S	SVJ013S		
CALIB. REF:	RIB224	RIB224	RIB224		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Strychnine	ND	2670	2340	88	2670	2370	89	1	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Terphenyl-d14	3330	2390	72	3330	2300	69	32-136

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: METHOD 3550A/8270B

MATRIX:	SOIL			% MOISTURE:	5.5
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	20242-3607				
LAB SAMP ID:	J058-01	J058-01M	J058-01S		
LAB FILE ID:	RJB084	RJB085	RJB086		
DATE EXTRACTED:	10/10/0019:30	10/10/0019:30	10/10/0019:30	DATE COLLECTED:	10/06/00
DATE ANALYZED:	10/10/0020:22	10/10/0021:01	10/10/0021:40	DATE RECEIVED:	10/06/00
PREP. BATCH:	SVJ013S	SVJ013S	SVJ013S		
CALIB. REF:	RIB224	RIB224	RIB224		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Strychnine	ND	2830	1020	36	2830	828	29*	20	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
Terphenyl-d14	3520	2810	80	3520	2990	85	32-136

METHOD 3550A/8081
PESTICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3607	Date Analyzed: 10/13/00 09:27
Lab Samp ID: J058-01	Dilution Factor: 1
Lab File ID: SJ12032A	Matrix : SOIL
Ext Btch ID: CPJ015S	% Moisture : 5.5
Calib. Ref.: SJ12028A	Instrument ID : GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.00098J | (ND)	.02	.00065 | .00056
BETA-BHC	.0021J | (ND)	.035	.0015 | .00048
DELTA-BHC	.026E | (ND)	.012	.00087 | .00083
GAMMA-BHC (LINDANE)	(ND) | ND	.021	.00032 | .0014
ALPHA-CHLORDANE	.0006J | (ND)	.016	.00021 | .0009
GAMMA-CHLORDANE	.0018J | (.002J)	.016	.00027 | .00027
4,4'-DDD	.0012J | (ND)	.044	.0010 | .0021
4,4'-DDE	(.045E) | .048E	.026	.00076 | .00053
4,4'-DDT	(ND) | .0015J	.038	.00093 | .00041
ALDRIN	(ND) | ND	.023	.0015 | .0015
DIELDRIN	(ND) | ND	.037	.00076 | .0021
ENDOSULFAN I	(ND) | ND	.022	.00054 | .00034
ENDOSULFAN II	(ND) | ND	.025	.0005 | .00091
ENDOSULFAN SULFATE	(ND) | ND	.038	.00056 | .00038
ENDRIN	(ND) | ND	.038	.00046 | .00057
ENDRIN ALDEHYDE	(ND) | .0011J	.017	.00051 | .00046
HEPTACHLOR	(ND) | .0027J	.021	.00063 | .00077
HEPTACHLOR EPOXIDE	.0017J | (.00063J)	.022	.0006 | .00031
METHOXYCHLOR	(ND) | ND	.06	.004 | .0038
TOXAPHENE	(ND) | ND	.74	.015 | .012

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(80) | 76	25-143
TETRACHLORO-M-XYLENE	(71) | 70	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3607	Date Analyzed:	10/13/00 09:27
Lab Samp ID:	J058-01	Dilution Factor:	1
Lab File ID:	SJ12032A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	5.5
Calib. Ref.:	SJ12031A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0052J|(.0028J)	.0088	.00063|.00087

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3607DL	Date Analyzed:	10/16/00 17:17
Lab Samp ID:	J058-01T	Dilution Factor:	2
Lab File ID:	SJ16007A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	5.5
Calib. Ref.:	SJ16003A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | ND	.04	.0013 | .0011
BETA-BHC	(ND) | ND	.07	.0031 | .00097
DELTA-BHC	.028 | (ND)	.023	.0017 | .0017
GAMMA-BHC (LINDANE)	(ND) | ND	.042	.00065 | .0028
ALPHA-CHLORDANE	.00065J | (ND)	.032	.00043 | .0018
GAMMA-CHLORDANE	.0018J | (.002J)	.032	.00054 | .00054
4,4'-DDD	(ND) | ND	.089	.002 | .0041
4,4'-DDE	(.048J) | .048J	.053	.0015 | .0011
4,4'-DDT	(ND) | .0014J	.076	.0019 | .00082
ALDRIN	(ND) | ND	.047	.003 | .0029
DIELDRIN	(ND) | ND	.074	.0015 | .0043
ENDOSULFAN I	(ND) | ND	.044	.0011 | .00068
ENDOSULFAN II	(ND) | ND	.051	.001 | .0018
ENDOSULFAN SULFATE	(ND) | ND	.076	.0011 | .00076
ENDRIN	(ND) | ND	.076	.00092 | .0011
ENDRIN ALDEHYDE	.001J | (ND)	.034	.001 | .00092
HEPTACHLOR	(ND) | .0033J	.042	.0013 | .0015
HEPTACHLOR EPOXIDE	.0021J | (ND)	.044	.0012 | .00063
METHOXYCHLOR	(ND) | ND	.12	.0081 | .0076
TOXAPHENE	(ND) | ND	1.5	.031 | .025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(48) | 46	25-143
TETRACHLORO-M-XYLENE	(38) | 37	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID	: 20242-3608	Date Analyzed:	10/13/00 01:45
Lab Samp ID	: J058-02	Dilution Factor:	1
Lab File ID	: SJ12014A	Matrix	: SOIL
Ext Btch ID	: CPJ015S	% Moisture	: 11.6
Calib. Ref.	: SJ12008A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.0007	.0006
BETA-BHC	(ND)	ND	.037	.0017	.00052
DELTA-BHC	(ND)	ND	.012	.00093	.00089
GAMMA-BHC (LINDANE)	(ND)	ND	.023	.00035	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00097
GAMMA-CHLORDANE	.0028J	(ND)	.017	.00029	.00029
4,4'-DDD	(ND)	ND	.048	.0011	.0022
4,4'-DDE	(ND)	ND	.028	.00081	.00057
4,4'-DDT	(ND)	ND	.041	.0010	.00061
ALDRIN	(ND)	ND	.025	.0015	.0015
DIELDRIN	(ND)	ND	.04	.00081	.0023
ENDOSULFAN I	(ND)	ND	.024	.00057	.00037
ENDOSULFAN II	(ND)	ND	.027	.00054	.00097
ENDOSULFAN SULFATE	(ND)	ND	.041	.00059	.00041
ENDRIN	(ND)	ND	.041	.00049	.00061
ENDRIN ALDEHYDE	(ND)	ND	.018	.00054	.00049
HEPTACHLOR	(ND)	.0028J	.023	.00067	.00083
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00064	.00033
METHOXYCHLOR	(ND)	ND	.064	.0043	.0041
TOXAPHENE	(ND)	ND	.79	.017	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(85)	81	25-143
TETRACHLORO-M-XYLENE	(73)	72	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3608	Date Analyzed:	10/13/00 01:45
Lab Samp ID:	J058-02	Dilution Factor:	1
Lab File ID:	SJ12014A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	11.6
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0051J|(ND)	.0094	.00068|.00093

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3609	Date Analyzed:	10/13/00 02:11
Lab Samp ID:	J058-03	Dilution Factor:	1
Lab File ID:	SJ12015A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	12.1
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.022	.0007	.00061
BETA-BHC	(ND)	ND	.038	.0017	.00052
DELTA-BHC	(ND)	ND	.013	.00094	.00089
GAMMA-BHC (LINDANE)	(ND)	ND	.023	.00035	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00097
GAMMA-CHLORDANE	.00097J	(ND)	.017	.00029	.00029
4,4'-DDD	.0012J	(ND)	.048	.0011	.0022
4,4'-DDE	(.0038J)	.0038J	.028	.00082	.00057
4,4'-DDT	(ND)	ND	.041	.001	.00044
ALDRIN	(ND)	ND	.025	.0016	.0016
DIELDRIN	(ND)	ND	.04	.00081	.0023
ENDOSULFAN I	(ND)	ND	.024	.00058	.00037
ENDOSULFAN II	(ND)	ND	.027	.00054	.00097
ENDOSULFAN SULFATE	(ND)	ND	.041	.0006	.00041
ENDRIN	(ND)	ND	.041	.00049	.00061
ENDRIN ALDEHYDE	(ND)	ND	.018	.00054	.00049
HEPTACHLOR	(ND)	.0025J	.023	.00068	.00083
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00065	.00034
METHOXYCHLOR	(ND)	ND	.065	.0043	.0041
TOXAPHENE	(ND)	ND	.8	.017	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(84)	83	25-143
TETRACHLORO-M-XYLENE	(81)	78	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3609	Date Analyzed:	10/13/00 02:11
Lab Samp ID:	J058-03	Dilution Factor:	1
Lab File ID:	SJ12015A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	12.1
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0045J|(ND)	.0094	.00068|.00093

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3610	Date Analyzed:	10/13/00 02:37
Lab Samp ID:	J058-04	Dilution Factor:	1
Lab File ID:	SJ12016A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	11.4
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.0007	.0006
BETA-BHC	(ND)	ND	.037	.0016	.00052
DELTA-BHC	(ND)	ND	.012	.00093	.00089
GAMMA-BHC (LINDANE)	(ND)	ND	.023	.00035	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00097
GAMMA-CHLORDANE	.001J	(ND)	.017	.00029	.00029
4,4'-DDD	(ND)	ND	.047	.0011	.0022
4,4'-DDE	(ND)	.00057J	.028	.00081	.00057
4,4'-DDT	(ND)	ND	.041	.00099	.00044
ALDRIN	(ND)	ND	.025	.0016	.0016
DIELDRIN	(ND)	ND	.04	.00081	.0023
ENDOSULFAN I	(ND)	ND	.024	.00057	.00036
ENDOSULFAN II	(ND)	ND	.027	.00054	.00097
ENDOSULFAN SULFATE	(ND)	ND	.041	.00059	.00041
ENDRIN	(ND)	ND	.041	.00049	.00061
ENDRIN ALDEHYDE	(ND)	ND	.018	.00054	.00049
HEPTACHLOR	(ND)	.0024J	.023	.00067	.00082
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00064	.00033
METHOXYCHLOR	(ND)	ND	.064	.0043	.0041
TOXAPHENE	(ND)	ND	.79	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	86	(87)	25-143
TETRACHLORO-M-XYLENE	77	(77)	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3610	Date Analyzed:	10/13/00 02:37
Lab Samp ID:	J058-04	Dilution Factor:	1
Lab File ID:	SJ12016A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	11.4
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0041J|(ND)	.0094	.00068|.00093

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3611	Date Analyzed: 10/13/00 03:02
Lab Samp ID: J058-05	Dilution Factor: 1
Lab File ID: SJ12017A	Matrix : SOIL
Ext Btch ID: CPJ015S	% Moisture : 13.5
Calib. Ref.: SJ12008A	Instrument ID : GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.022	.00071	.00062
BETA-BHC	(ND)	ND	.038	.0017	.00053
DELTA-BHC	.0017J	(ND)	.013	.00095	.00091
GAMMA-BHC (LINDANE)	(ND)	ND	.023	.00035	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00099
GAMMA-CHLORDANE	.0011J	(ND)	.017	.00029	.00029
4,4'-DDD	(ND)	ND	.049	.0011	.0023
4,4'-DDE	.0019J	(.002J)	.029	.00083	.00058
4,4'-DDT	(ND)	ND	.042	.001	.00045
ALDRIN	(ND)	ND	.025	.0017	.0016
DIELDRIN	(ND)	ND	.04	.00083	.0023
ENDOSULFAN I	.0013J	(ND)	.024	.00059	.00037
ENDOSULFAN II	(ND)	ND	.028	.00055	.00099
ENDOSULFAN SULFATE	(ND)	ND	.042	.00061	.00042
ENDRIN	(ND)	ND	.042	.0005	.00062
ENDRIN ALDEHYDE	(ND)	ND	.018	.00055	.0005
HEPTACHLOR	(ND)	.0032J	.023	.00069	.00084
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00066	.00034
METHOXYCHLOR	(ND)	ND	.066	.0044	.0042
TOXAPHENE	(ND)	ND	.81	.017	.014

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	83	(84)	25-143
TETRACHLORO-M-XYLENE	(69)	61	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3611	Date Analyzed: 10/13/00 03:02
Lab Samp ID: J058-05	Dilution Factor: 1
Lab File ID: SJ12017A	Matrix : SOIL
Ext Btch ID: CPJ015S	% Moisture : 13.5
Calib. Ref.: SJ12011A	Instrument ID : GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0045J|(ND)	.0096	.00069|.00095

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3612	Date Analyzed:	10/13/00 10:44
Lab Samp ID:	J058-06	Dilution Factor:	1
Lab File ID:	SJ12035A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	21.9
Calib. Ref.:	SJ12028A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	.0046J | (ND)	.024	.00079 | .00068
BETA-BHC	.004J | (ND)	.042	.0019 | .00059
DELTA-BHC	.0074J | (ND)	.014	.0011 | .001
GAMMA-BHC (LINDANE)	(ND) | ND	.026	.00039 | .0017
ALPHA-CHLORDANE	.0009J | (ND)	.019	.00026 | .0011
GAMMA-CHLORDANE	(.001J) | .0007J	.019	.00033 | .00033
4,4'-DDD	(ND) | ND	.054	.0013 | .0025
4,4'-DDE	(.0025J) | .00301	.032	.00002 | .00064
4,4'-DDT	(.0015J) | .0015J	.046	.0011 | .0005
ALDRIN	(ND) | ND	.028	.0018 | .0018
DIELDRIN	(ND) | ND	.045	.00092 | .0026
ENDOSULFAN I	(ND) | ND	.027	.00065 | .00041
ENDOSULFAN II	(ND) | ND	.031	.00061 | .0011
ENDOSULFAN SULFATE	(ND) | ND	.046	.00067 | .00046
ENDRIN	(ND) | ND	.046	.00055 | .00069
ENDRIN ALDEHYDE	(ND) | .0008J	.02	.00061 | .00056
HEPTACHLOR	(ND) | .0027J	.026	.00076 | .00093
HEPTACHLOR EPOXIDE	(ND) | ND	.027	.00073 | .00038
METHOXYCHLOR	(ND) | ND	.073	.0049 | .0046
TOXAPHENE	(ND) | ND	.9	.019 | .015

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	81 | (101)	25-143
TETRACHLORO-M-XYLENE	(89) | 87	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3612	Date Analyzed:	10/13/00 10:44
Lab Samp ID:	J058-06	Dilution Factor:	1
Lab File ID:	SJ12035A	Matrix	: SOIL
Ext Btch ID:	CPJ015S	% Moisture	: 21.9
Calib. Ref.:	SJ12031A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0045J|(ND)	.011	.00077|.001

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3613	Date Analyzed:	10/13/00 11:10
Lab Samp ID:	J058-07	Dilution Factor:	1
Lab File ID:	SJ12036A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	28.0
Calib. Ref.:	SJ12028A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.0012J	.026	.00086	.00074
BETA-BHC	(ND)	ND	.046	.002	.00064
DELTA-BHC	.0022J	(ND)	.015	.0011	.0011
GAMMA-BHC (LINDANE)	(ND)	ND	.028	.00043	.0018
ALPHA-CHLORDANE	(ND)	ND	.021	.00028	.0012
GAMMA-CHLORDANE	.0011J	(ND)	.021	.00035	.00035
4,4'-DDD	(ND)	ND	.058	.0013	.0027
4,4'-DDE	(ND)	.0013J	.035	.001	.0007
4,4'-DDT	.0012J	(ND)	.05	.0012	.00054
ALDRIN	(ND)	ND	.031	.002	.0019
DIELDRIN	(ND)	ND	.049	.00099	.0028
ENDOSULFAN I	(ND)	ND	.029	.0007	.00045
ENDOSULFAN II	(ND)	ND	.033	.00066	.0012
ENDOSULFAN SULFATE	(ND)	ND	.05	.00073	.0005
ENDRIN	(ND)	ND	.05	.0006	.00075
ENDRIN ALDEHYDE	(ND)	ND	.022	.00067	.0006
HEPTACHLOR	(ND)	.0032J	.028	.00083	.001
HEPTACHLOR EPOXIDE	(ND)	ND	.029	.00079	.00041
METHOXYCHLOR	(ND)	ND	.079	.0053	.005
TOXAPHENE	(ND)	ND	.97	.02	.016

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	73	(91)	25-143
TETRACHLORO-M-XYLENE	(85)	84	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3613	Date Analyzed:	10/13/00 11:10
Lab Samp ID:	J058-07	Dilution Factor:	1
Lab File ID:	SJ12036A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	28.0
Calib. Ref.:	SJ12031A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0048J|(ND)	.012	.00083|.0011

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3614	Date Analyzed:	10/13/00 11:36
Lab Samp ID:	J058-08	Dilution Factor:	1
Lab File ID:	SJ12037A	Matrix	: SOIL
Ext Btch ID:	CPJ015S	% Moisture	: 14.4
Calib. Ref.:	SJ12028A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.022	.00072	.00062
BETA-BHC	(ND)	ND	.039	.0017	.00054
DELTA-BHC	.0011J	(ND)	.013	.00096	.00092
GAMMA-BHC (LINDANE)	(ND)	ND	.023	.00036	.0015
ALPHA-CHLORDANE	(ND)	ND	.018	.00023	.0010
GAMMA-CHLORDANE	.0012J	(ND)	.018	.0003	.0003
4,4'-DDD	(ND)	ND	.049	.0011	.0023
4,4'-DDE	(ND)	.00084J	.029	.00084	.00059
4,4'-DDT	(ND)	ND	.042	.001	.00045
ENDRIN	(ND)	ND	.026	.0017	.0016
DIELDRIN	(ND)	ND	.041	.00084	.0024
ENDOSULFAN I	(ND)	ND	.025	.00059	.00038
ENDOSULFAN II	(ND)	ND	.028	.00056	.001
ENDOSULFAN SULFATE	(ND)	ND	.042	.00061	.00042
ENDRIN	(ND)	ND	.042	.00051	.00063
ENDRIN ALDEHYDE	(ND)	ND	.019	.00056	.00051
HEPTACHLOR	(ND)	.003J	.023	.0007	.00085
HEPTACHLOR EPOXIDE	(ND)	ND	.025	.00066	.00035
METHOXYCHLOR	(ND)	ND	.067	.0045	.0042
TOXAPHENE	(ND)	ND	.82	.017	.014

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(79)	75	25-143
TETRACHLORO-M-XYLENE	(81)	79	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3614	Date Analyzed:	10/13/00 11:36
Lab Samp ID:	J058-08	Dilution Factor:	1
Lab File ID:	SJ12037A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	14.4
Calib. Ref.:	SJ12031A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0051J|(ND)	.0097	.0007|.00096

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration.
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3615	Date Analyzed:	10/13/00 03:28
Lab Samp ID:	J058-09	Dilution Factor:	1
Lab File ID:	SJ12018A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	10.7
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00069	.0006
BETA-BHC	(ND)	ND	.037	.0016	.00051
DELTA-BHC	(ND)	ND	.012	.00092	.00088
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00096
GAMMA-CHLORDANE	.00098J	(ND)	.017	.00028	.00029
4,4'-DDD	(ND)	ND	.047	.0011	.0022
4,4'-DDE	(ND)	ND	.028	.00081	.00056
4,4'-DDT	(ND)	ND	.04	.00099	.00043
ALDRIN	(ND)	ND	.025	.0016	.0015
DIELDRIN	(ND)	ND	.039	.0008	.0023
ENDOSULFAN I	(ND)	ND	.024	.00057	.00036
ENDOSULFAN II	(ND)	ND	.027	.00053	.00096
ENDOSULFAN SULFATE	(ND)	ND	.04	.00059	.0004
ENDRIN	(ND)	ND	.04	.00048	.0006
ENDRIN ALDEHYDE	(ND)	ND	.018	.00054	.00049
HEPTACHLOR	(ND)	.0028J	.022	.00067	.00082
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00064	.00033
METHOXYCHLOR	(ND)	ND	.064	.0043	.004
TOXAPHENE	(ND)	ND	.78	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(83)	82	25-143
TETRACHLORO-M-XYLENE	(74)	72	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3615	Date Analyzed:	10/13/00 03:28
Lab Samp ID:	J058-09	Dilution Factor:	1
Lab File ID:	SJ12018A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	10.7
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0037J|(ND)	.0093	.00067|.00092

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3616	Date Analyzed:	10/13/00 03:54
Lab Samp ID:	J058-10	Dilution Factor:	1
Lab File ID:	SJ12019A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	10.4
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00069	.00059
BETA-BHC	(ND)	ND	.037	.0016	.00051
DELTA-BHC	(ND)	ND	.012	.00092	.00088
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00022	.00095
GAMMA-CHLORDANE	.00091J	(ND)	.017	.00028	.00028
4,4'-DDD	(ND)	ND	.047	.0011	.0022
4,4'-DDE	(ND)	ND	.028	.0008	.00056
4,4'-DDT	(ND)	ND	.04	.00098	.00043
ALDRIN	(ND)	ND	.025	.0016	.0015
DIELDRIN	(ND)	ND	.039	.0008	.0023
ENDOSULFAN I	(ND)	ND	.023	.00057	.00036
ENDOSULFAN II	(ND)	ND	.027	.00053	.00096
ENDOSULFAN SULFATE	(ND)	ND	.04	.00059	.0004
ENDRIN	(ND)	ND	.04	.00048	.0006
ENDRIN ALDEHYDE	(ND)	ND	.018	.00053	.00048
HEPTACHLOR	(ND)	.0023J	.022	.00067	.00081
HEPTACHLOR EPOXIDE	(ND)	ND	.023	.00063	.00033
METHOXYCHLOR	(ND)	ND	.064	.0043	.004
TOXAPHENE	(ND)	ND	.78	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	84	(84)	25-143
TETRACHLORO-M-XYLENE	(72)	71	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3616	Date Analyzed:	10/13/00 03:54
Lab Samp ID:	J058-10	Dilution Factor:	1
Lab File ID:	SJ12019A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	10.4
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0034J|(ND)	.0093	.00067|.00092

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3617	Date Analyzed:	10/13/00 04:19
Lab Samp ID:	J058-11	Dilution Factor:	1
Lab File ID:	SJ12020A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.4
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00068	.00059
BETA-BHC	(ND)	ND	.036	.0016	.00051
DELTA-BHC	(ND)	ND	.012	.00091	.00087
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0014
ALPHA-CHLORDANE	(ND)	ND	.017	.00022	.00094
GAMMA-CHLORDANE	.0012J	(ND)	.017	.00028	.00028
4,4'-DDD	(ND)	ND	.046	.001	.0022
4,4'-DDE	(ND)	ND	.028	.00079	.00055
4,4'-DDT	(ND)	ND	.04	.00097	.00043
ALDRIN	(ND)	ND	.024	.0016	.0015
DIELDRIN	(ND)	ND	.039	.00079	.0022
ENDOSULFAN I	(ND)	ND	.023	.00056	.00036
ENDOSULFAN II	(ND)	ND	.026	.00053	.00095
ENDOSULFAN SULFATE	(ND)	ND	.04	.00058	.0004
ENDRIN	(ND)	ND	.04	.00048	.0006
ENDRIN ALDEHYDE	(ND)	ND	.018	.00053	.00048
HEPTACHLOR	(ND)	.0029J	.022	.00066	.00081
HEPTACHLOR EPOXIDE	(ND)	ND	.023	.00063	.00033
METHOXYCHLOR	(ND)	ND	.063	.0042	.004
TOXAPHENE	(ND)	ND	.77	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	84	(85)	25-143
TETRACHLORO-M-XYLENE	(69)	67	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3617	Date Analyzed:	10/13/00 04:19
Lab Samp ID:	J058-11	Dilution Factor:	1
Lab File ID:	SJ12020A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.4
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0046J|(ND)	.0092	.00066|.00091

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3618	Date Analyzed:	10/13/00 12:01
Lab Samp ID:	J058-12	Dilution Factor:	1
Lab File ID:	SJ12038A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	5.2
Calib. Ref.:	SJ12028A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	.00093J	.02	.00065	.00056
BETA-BHC	(ND)	.003J	.035	.0015	.00048
DELTA-BHC	.0064J	(ND)	.012	.00087	.00083
GAMMA-BHC (LINDANE)	.00075J	(ND)	.021	.00032	.0014
ALPHA-CHLORDANE	.00079J	(ND)	.016	.00021	.0009
GAMMA-CHLORDANE	(.0014J)	.00094J	.016	.00027	.00027
4,4'-DDD	.0011J	(ND)	.044	.00099	.0021
4,4'-DDE	(.016J)	.017J	.026	.00076	.00055
4,4'-DDT	(.002J)	.001J	.038	.00093	.00041
ALDRIN	(ND)	ND	.023	.0015	.0015
DIELDRIN	(ND)	ND	.037	.00075	.0021
ENDOSULFAN I	(ND)	ND	.022	.00053	.00034
ENDOSULFAN II	.00057J	(ND)	.025	.0005	.0009
ENDOSULFAN SULFATE	(ND)	ND	.038	.00055	.00038
ENDRIN	(ND)	ND	.038	.00046	.00057
ENDRIN ALDEHYDE	(ND)	ND	.017	.00051	.00046
HEPTACHLOR	(ND)	.0027J	.021	.00063	.00077
HEPTACHLOR EPOXIDE	(ND)	ND	.022	.0006	.00031
METHOXYCHLOR	(ND)	ND	.06	.004	.0038
TOXAPHENE	(ND)	ND	.74	.015	.012

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	70	(76)	25-143
TETRACHLORO-M-XYLENE	87	(87)	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3618	Date Analyzed:	10/13/00 12:01
Lab Samp ID:	J058-12	Dilution Factor:	1
Lab File ID:	SJ12038A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	5.2
Calib. Ref.:	SJ12031A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0052J|(ND)	.0088	.00063|.00086

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3619	Date Analyzed:	10/13/00 12:27
Lab Samp ID:	J058-13	Dilution Factor:	1
Lab File ID:	SJ12039A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.0
Calib. Ref.:	SJ12028A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
ALPHA-BHC	(ND) | .00064J	.021	.00068 | .00058
BETA-BHC	(ND) | ND	.036	.0016 | .0005
DELTA-BHC	.0035J | (ND)	.012	.00091 | .00086
GAMMA-BHC (LINDANE)	(ND) | ND	.022	.00034 | .0014
ALPHA-CHLORDANE	(ND) | ND	.016	.00022 | .00094
GAMMA-CHLORDANE	.0017J | (.00031J)	.016	.00028 | .00028
4,4'-DDD	(ND) | ND	.046	.001 | .0021
4,4'-DDE	(.00531J) | .0056J	.027	.00079 | .00055
4,4'-DDT	(ND) | ND	.04	.00097 | .00043
ALDRIN	(ND) | ND	.024	.0016 | .0015
DIELDRIN	(ND) | ND	.038	.00079 | .0022
ENDOSULFAN I	(ND) | ND	.023	.00056 | .00035
ENDOSULFAN II	(ND) | ND	.026	.00052 | .00094
ENDOSULFAN SULFATE	(ND) | ND	.04	.00058 | .00039
ENDRIN	(ND) | ND	.04	.00048 | .00059
ENDRIN ALDEHYDE	(ND) | ND	.018	.00053 | .00048
HEPTACHLOR	(ND) | .0029J	.022	.00065 | .0008
HEPTACHLOR EPOXIDE	(ND) | .00036J	.023	.00062 | .00033
METHOXYCHLOR	(ND) | ND	.063	.0042 | .004
TOXAPHENE	(ND) | ND	.77	.016 | .013

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	70 | (79)	25-143
TETRACHLORO-M-XYLENE	(80) | 79	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3619	Date Analyzed:	10/13/00 12:27
Lab Samp ID:	J058-13	Dilution Factor:	1
Lab File ID:	SJ12039A	Matrix	: SOIL
Ext Btch ID:	CPJ015S	% Moisture	: 9.0
Calib. Ref.:	SJ12031A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0049J|(ND)	.0091	.00066|.0009

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3620	Date Analyzed:	10/13/00 04:45
Lab Samp ID:	J058-14	Dilution Factor:	1
Lab File ID:	SJ12021A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	11.4
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.0007	.0006
BETA-BHC	(ND)	ND	.037	.0016	.00052
DELTA-BHC	(ND)	ND	.012	.00093	.00089
GAMMA-BHC (LINDANE)	(ND)	ND	.023	.00035	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00097
GAMMA-CHLORDANE	.00086J	(ND)	.017	.00029	.00029
4,4'-DDD	(ND)	ND	.047	.0011	.0022
4,4'-DDE	(ND)	ND	.028	.00081	.00057
4,4'-DDT	(ND)	ND	.041	.00099	.00044
ALDRIN	(ND)	ND	.025	.0016	.0016
DIELDRIN	(ND)	ND	.04	.00081	.0023
ENDOSULFAN I	(ND)	ND	.024	.00057	.00036
ENDOSULFAN II	(ND)	ND	.027	.00054	.00097
ENDOSULFAN SULFATE	(ND)	ND	.041	.00059	.00041
ENDRIN	(ND)	ND	.041	.00049	.00061
ENDRIN ALDEHYDE	(ND)	ND	.018	.00054	.00049
HEPTACHLOR	(ND)	.0027J	.023	.00067	.00082
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00064	.00033
METHOXYCHLOR	(ND)	ND	.064	.0043	.0041
TOXAPHENE	(ND)	ND	.79	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	84	(84)	25-143
TETRACHLORO-M-XYLENE	74	(74)	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3620	Date Analyzed:	10/13/00 04:45
Lab Samp ID:	J058-14	Dilution Factor:	1
Lab File ID:	SJ12021A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	11.4
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0029J|(ND)	.0094	.00068|.00093

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3621	Date Analyzed:	10/13/00 05:11
Lab Samp ID:	J058-15	Dilution Factor:	1
Lab File ID:	SJ12022A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.9
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00068	.00059
BETA-BHC	(ND)	ND	.037	.0016	.00051
DELTA-BHC	(ND)	ND	.012	.00092	.00087
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00022	.00095
GAMMA-CHLORDANE	.00087J	(ND)	.017	.00028	.00028
4,4'-DDD	(ND)	ND	.047	.001	.0022
4,4'-DDE	(ND)	ND	.028	.0008	.00056
4,4'-DDT	(ND)	ND	.04	.00098	.00043
ALDRIN	(ND)	ND	.024	.0016	.0015
DIELDRIN	(ND)	ND	.039	.00079	.0023
ENDOSULFAN I	(ND)	ND	.023	.00056	.00036
ENDOSULFAN II	(ND)	ND	.027	.00053	.00095
ENDOSULFAN SULFATE	(ND)	ND	.04	.00058	.0004
ENDRIN	(ND)	ND	.04	.00048	.0006
ENDRIN ALDEHYDE	(ND)	ND	.018	.00053	.00048
HEPTACHLOR	(ND)	.0026J	.022	.00066	.00081
HEPTACHLOR EPOXIDE	(ND)	ND	.023	.00063	.00033
METHOXYCHLOR	(ND)	ND	.063	.0042	.004
TOXAPHENE	(ND)	ND	.78	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	79	(79)	25-143
TETRACHLORO-M-XYLENE	63	(63)	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3621	Date Analyzed:	10/13/00 05:11
Lab Samp ID:	J058-15	Dilution Factor:	1
Lab File ID:	SJ12022A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.9
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0031J|(ND)	.0092	.00067|.00091

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3622	Date Analyzed:	10/13/00 05:36
Lab Samp ID:	J058-16	Dilution Factor:	1
Lab File ID:	SJ12023A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	10.9
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00069	.0006
BETA-BHC	(ND)	ND	.037	.0016	.00051
DELTA-BHC	(ND)	ND	.012	.00093	.00088
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00023	.00096
GAMMA-CHLORDANE	.0011J	(ND)	.017	.00029	.00029
4,4'-DDD	(ND)	ND	.047	.0011	.0022
4,4'-DDE	(ND)	ND	.028	.00081	.00056
4,4'-DDT	(ND)	ND	.04	.00099	.00043
ALDRIN	(ND)	ND	.025	.0016	.0015
DIELDRIN	(ND)	ND	.039	.0008	.0023
ENDOSULFAN I	(ND)	ND	.024	.00057	.00036
ENDOSULFAN II	(ND)	ND	.027	.00053	.00096
ENDOSULFAN SULFATE	(ND)	ND	.04	.00059	.0004
ENDRIN	(ND)	ND	.04	.00049	.00061
ENDRIN ALDEHYDE	(ND)	ND	.018	.00054	.00049
HEPTACHLOR	(ND)	.0021J	.022	.00067	.00082
HEPTACHLOR EPOXIDE	(ND)	ND	.024	.00064	.00033
METHOXYCHLOR	(ND)	ND	.064	.0043	.004
TOXAPHENE	(ND)	ND	.79	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	84	(84)	25-143
TETRACHLORO-M-XYLENE	(82)	80	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3622	Date Analyzed:	10/13/00 05:36
Lab Samp ID:	J058-16	Dilution Factor:	1
Lab File ID:	SJ12023A	Matrix	: SOIL
Ext Btch ID:	CPJ015S	% Moisture	: 10.9
Calib. Ref.:	SJ12011A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0041J|(ND)	.0093	.00067|.00092

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3623	Date Analyzed:	10/13/00 06:02
Lab Samp ID:	J058-17	Dilution Factor:	1
Lab File ID:	SJ12024A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	6.9
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.02	.00066	.00057
BETA-BHC	(ND)	ND	.035	.0016	.00049
DELTA-BHC	(ND)	ND	.012	.00089	.00084
GAMMA-BHC (LINDANE)	(ND)	ND	.021	.00033	.0014
ALPHA-CHLORDANE	(ND)	ND	.016	.00022	.00092
GAMMA-CHLORDANE	.00081J	(ND)	.016	.00027	.00027
4,4'-DDD	(ND)	ND	.045	.001	.0021
4,4'-DDE	(ND)	ND	.027	.00077	.00054
4,4'-DDT	(ND)	ND	.039	.00095	.00042
ALDRIN	(ND)	ND	.024	.0015	.0015
DIELDRIN	(ND)	ND	.038	.00077	.0022
ENDOSULFAN I	(ND)	ND	.023	.00054	.00035
ENDOSULFAN II	(ND)	ND	.026	.00051	.00092
ENDOSULFAN SULFATE	(ND)	ND	.039	.00056	.00039
ENDRIN	(ND)	ND	.039	.00047	.00058
ENDRIN ALDEHYDE	(ND)	ND	.017	.00051	.00047
HEPTACHLOR	(ND)	.0021J	.021	.00064	.00078
HEPTACHLOR EPOXIDE	(ND)	ND	.023	.00061	.00032
METHOXYCHLOR	(ND)	ND	.061	.0041	.0039
TOXAPHENE	(ND)	ND	.75	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	83	(84)	25-143
TETRACHLORO-M-XYLENE	(74)	73	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3623	Date Analyzed:	10/13/00 06:02
Lab Samp ID:	J058-17	Dilution Factor:	1
Lab File ID:	SJ12024A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	6.9
Calib. Ref.:	SJ12011A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0031J|(ND)	.0089	.00064|.00088

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3624	Date Analyzed:	10/13/00 12:53
Lab Samp ID:	J058-18	Dilution Factor:	1
Lab File ID:	SJ12040A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	8.8
Calib. Ref.:	SJ12028A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00068	.00058
BETA-BHC	(ND)	ND	.036	.0016	.0005
DELTA-BHC	(ND)	ND	.012	.0009	.00086
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0014
ALPHA-CHLORDANE	(ND)	ND	.016	.00022	.00094
GAMMA-CHLORDANE	(ND)	ND	.016	.00028	.00028
4,4'-DDD	(ND)	ND	.046	.001	.0021
4,4'-DDE	(ND)	ND	.027	.00079	.00055
4,4'-DDT	(ND)	ND	.039	.00096	.00042
ALDRIN	(ND)	.0022J	.024	.0016	.0015
DIELDRIN	(ND)	ND	.038	.00078	.0022
ENDOSULFAN I	(ND)	ND	.023	.00056	.00035
ENDOSULFAN II	(.0011J)	.001J	.026	.00052	.00094
ENDOSULFAN SULFATE	(ND)	ND	.039	.00058	.00039
ENDRIN	(ND)	ND	.039	.00047	.00059
ENDRIN ALDEHYDE	(ND)	.0011J	.018	.00053	.00048
HEPTACHLOR	(ND)	.00089J	.022	.00065	.0008
HEPTACHLOR EPOXIDE	.001J	(ND)	.023	.00062	.00032
METHOXYCHLOR	(ND)	ND	.063	.0042	.0039
TOXAPHENE	(ND)	ND	.77	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(77)	72	25-143
TETRACHLORO-M-XYLENE	(78)	77	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3624	Date Analyzed:	10/13/00 12:53
Lab Samp ID:	J058-18	Dilution Factor:	1
Lab File ID:	SJ12040A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	8.8
Calib. Ref.:	SJ12031A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	(ND)|ND	.0091	.00066|.0009

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3625	Date Analyzed:	10/13/00 13:18
Lab Samp ID:	J058-19	Dilution Factor:	1
Lab File ID:	SJ12041A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.9
Calib. Ref.:	SJ12028A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00068	.00059
BETA-BHC	(ND)	ND	.037	.0016	.00051
DELTA-BHC	(ND)	ND	.012	.00092	.00087
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00034	.0015
ALPHA-CHLORDANE	(ND)	ND	.017	.00022	.00095
GAMMA-CHLORDANE	.00077J	(ND)	.017	.00028	.00028
4,4'-DDD	(ND)	ND	.047	.001	.0022
4,4'-DDE	(ND)	ND	.028	.0008	.00056
4,4'-DDT	(ND)	ND	.04	.00098	.00043
ALDRIN	(ND)	ND	.024	.0016	.0015
DIELDRIN	(ND)	ND	.039	.00079	.0023
ENDOSULFAN I	(ND)	ND	.023	.00056	.00036
ENDOSULFAN II	(ND)	ND	.027	.00053	.00095
ENDOSULFAN SULFATE	(ND)	ND	.04	.00058	.0004
ENDRIN	(ND)	ND	.04	.00048	.0006
ENDRIN ALDEHYDE	(ND)	ND	.018	.00053	.00048
HEPTACHLOR	(ND)	.0019J	.022	.00066	.00081
HEPTACHLOR EPOXIDE	(ND)	ND	.023	.00063	.00033
METHOXYCHLOR	(ND)	ND	.063	.0042	.004
TOXAPHENE	(ND)	ND	.78	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	70	(70)	25-143
TETRACHLORO-M-XYLENE	(69)	66	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3625	Date Analyzed:	10/13/00 13:18
Lab Samp ID:	J058-19	Dilution Factor:	1
Lab File ID:	SJ12041A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	9.9
Calib. Ref.:	SJ12031A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	(ND)|ND	.0092	.00067|.00091

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

5051

METHOD 3550A/8081
PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3626	Date Analyzed:	10/13/00 06:28
Lab Samp ID:	J058-20	Dilution Factor:	1
Lab File ID:	SJ12025A	Matrix :	SOIL
Ext Btch ID:	CPJ015S	% Moisture :	7.7
Calib. Ref.:	SJ12008A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.021	.00067	.00058
BETA-BHC	(ND)	ND	.036	.0016	.0005
DELTA-BHC	(ND)	ND	.012	.00089	.00085
GAMMA-BHC (LINDANE)	(ND)	ND	.022	.00033	.0014
ALPHA-CHLORDANE	(ND)	ND	.016	.00022	.00093
GAMMA-CHLORDANE	.00088J	(ND)	.016	.00028	.00028
4,4'-DDD	(ND)	ND	.046	.001	.0021
4,4'-DDE	(ND)	ND	.027	.00078	.00054
4,4'-DDT	(ND)	ND	.039	.00095	.00042
ALDRIN	(ND)	ND	.024	.0016	.0015
DIELDRIN	(ND)	ND	.038	.00077	.0022
ENDOSULFAN I	(ND)	ND	.023	.00055	.00035
ENDOSULFAN II	(ND)	ND	.026	.00052	.00093
ENDOSULFAN SULFATE	(ND)	ND	.039	.00057	.00039
ENDRIN	(ND)	ND	.039	.00047	.00059
ENDRIN ALDEHYDE	(ND)	ND	.017	.00052	.00047
HEPTACHLOR	(ND)	.003J	.022	.00065	.00079
HEPTACHLOR EPOXIDE	(ND)	ND	.023	.00062	.00032
METHOXYCHLOR	(ND)	ND	.062	.0041	.0039
TOXAPHENE	(ND)	ND	.76	.016	.013

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	82	(82)	25-143
TETRACHLORO-M-XYLENE	(64)	62	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3626	Date Analyzed:	10/13/00 06:28
Lab Samp ID:	J058-20	Dilution Factor:	1
Lab File ID:	SJ12025A	Matrix	: SOIL
Ext Btch ID:	CPJ015S	% Moisture	: 7.7
Calib. Ref.:	SJ12011A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	.0032J|(ND)	.009	.00065|.00089

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
PESTICIDES

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/11/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: MBLK1S	Date Analyzed: 10/13/00 00:54
Lab Samp ID: CPJ015SB	Dilution Factor: 1
Lab File ID: SJ12012A	Matrix : SOIL
Ext Btch ID: CPJ015S	% Moisture : NA
Calib. Ref.: SJ12008A	Instrument ID : GCT050

PARAMETERS	RESULTS (mg/kg)		PQL (mg/kg)	MDL (mg/kg)	
ALPHA-BHC	(ND)	ND	.019	.00062	.00053
BETA-BHC	(ND)	ND	.033	.0015	.00046
DELTA-BHC	(ND)	ND	.011	.00083	.00079
GAMMA-BHC (LINDANE)	(ND)	ND	.02	.00031	.0013
ALPHA-CHLORDANE	(ND)	ND	.015	.0002	.00085
GAMMA-CHLORDANE	(ND)	.00042J	.015	.00025	.00025
4,4'-DDD	(ND)	ND	.042	.00094	.0019
4,4'-DDE	(ND)	ND	.025	.00072	.0005
4,4'-DDT	(ND)	ND	.036	.00088	.00039
ALDRIN	(ND)	ND	.022	.0014	.0014
DIELDRIN	(ND)	ND	.035	.00071	.002
ENDOSULFAN I	(ND)	ND	.021	.00051	.00032
ENDOSULFAN II	(ND)	ND	.024	.00048	.00086
ENDOSULFAN SULFATE	(ND)	ND	.036	.00052	.00036
ENDRIN	(ND)	ND	.036	.00043	.00054
ENDRIN ALDEHYDE	(ND)	ND	.016	.00048	.00043
HEPTACHLOR	(ND)	ND	.02	.0006	.00073
HEPTACHLOR EPOXIDE	(ND)	ND	.021	.00057	.0003
METHOXYCHLOR	(ND)	ND	.057	.0038	.0036
TOXAPHENE	(ND)	ND	.7	.015	.012

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(93)	90	25-143
TETRACHLORO-M-XYLENE	(92)	89	35-135

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

METHOD 3550A/8081
DICOFOL

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/11/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: MBLK1S	Date Analyzed: 10/13/00 00:54
Lab Samp ID: CPJ015SB	Dilution Factor: 1
Lab File ID: SJ12012A	Matrix : SOIL
Ext Btch ID: CPJ015S	% Moisture : NA
Calib. Ref.: SJ12011A	Instrument ID : GCT050

PARAMETERS	RESULTS (mg/kg)	PQL (mg/kg)	MDL (mg/kg)
DICOFOL	(ND)|ND	.0083	.0006|.00082

PQL : Practical Quantitation Limit
Left of | is result from the first column. Right of | result from the second column
( ) Final result
* Outside of QC limit
J : An estimated value between PQL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: METHOD 3550A/8081

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPJ015SB CPJ015SL
LAB FILE ID: SJ12012A SJ12013A
DATE EXTRACTED: 10/11/0020:00 10/11/0020:00 DATE COLLECTED: NA
DATE ANALYZED: 10/13/0000:54 10/13/0001:19 DATE RECEIVED: 10/11/00
PREP. BATCH: CPJ015S CPJ015S
CALIB. REF: SJ12008A SJ12008A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
gamma-BHC (Lindane)	(ND) | ND	.00667	(.00576J) | .00568J	(86) | 85	33-130
4,4'-DDT	(ND) | ND	.0133	.0112J | (.0114J)	84 | (86)	25-153
Aldrin	(ND) | ND	.00667	(.00556J) | .00547J	(84) | 82	37-128
Dieldrin	(ND) | ND	.0133	.0118J | (.0119J)	89 | (89)	32-142
Endrin	(ND) | ND	.0133	(.0132J) | .0129J	(99) | 97	33-144
Heptachlor	(ND) | ND	.00667	.00557J | (.00584J)	84 | (88)	35-138

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Decachlorobiphenyl	.0133	(.012) | .0119	(90) | 89	25-143
Tetrachloro-m-xylene	.0133	(.0117) | .0112	(88) | 84	35-133

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/20242/D.O. 112
ATCH NO.: 00J058
ETHOD: METHOD 3550A/8081

ATRIX:	SOIL			% MOISTURE:	5.5
ILUTION FACTOR:	1	1	1		
AMPLE ID:	20242-3607				
AB SAMP ID:	J058-01	J058-01M	J058-01S		
AB FILE ID:	SJ12032A	SJ12033A	SJ12034A		
ATE EXTRACTED:	10/11/0020:00	10/11/0020:00	10/11/0020:00	DATE COLLECTED:	10/06/00
ATE ANALYZED:	10/13/0009:27	10/13/0009:53	10/13/0010:19	DATE RECEIVED:	10/06/00
REP. BATCH:	CPJ015S	CPJ015S	CPJ015S		
ALIB. REF:	SJ12028A	SJ12028A	SJ12028A		

CCESSION:

ARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
amma-BHC (Lindane)	(ND) | ND	.00706	(.0068J) | .0062J	(96) | 88	.00706	.006J | (.0074J)	85 | (105)	12 | (18)	33-130	50
,4'-DDT	(ND) | .0015J	.0141	(.015J) | .014J	(106) | 89	.0141	(.014J) | .013J	(99) | 82	(7) | 7	25-153	50
ldrin	(ND) | ND	.00706	.0061J | (.0081J)	86 | (115)	.00706	.0056J | (.0074J)	79 | (105)	9 | (9)	37-126	50
ieldrin	(ND) | ND	.0141	.012J | (.014J)	85 | (99)	.0141	.012J | (.014J)	85 | (99)	0 | (0)	32-142	50
ndrin	(ND) | ND	.0141	.014J | (.015J)	99 | (106)	.0141	.014J | (.015J)	99 | (106)	0 | (0)	33-144	50
eptachlor	(ND) | .0027J	.00706	.0073J | (.0096J)	103 | (98)	.00706	.0069J | (.0095J)	98 | (96)	6 | (1)	35-138	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Decachlorobiphenyl	.0141	.011 | (.013)	80 | (91)	.0141	(.012) | .012	82 | (86)	25-143
Tetrachloro-m-xylene	.0141	(.011) | .011	78 | (79)	.0141	(.011) | .0099	(76) | 70	35-133

5058

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3607	Date Analyzed:	10/12/00 16:36
Lab Samp ID:	J058-01	Dilution Factor:	1
Lab File ID:	YJ12018A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	5.5
Calib. Ref.:	YJ12008A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.4
MALATHION	ND	110	8.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	137	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3608	Date Analyzed:	10/12/00 20:31
Lab Samp ID:	J058-02	Dilution Factor:	1
Lab File ID:	YJ12025A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	11.6
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.8
MALATHION	ND	110	9.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	97	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3609	Date Analyzed:	10/12/00 21:18
Lab Samp ID:	J058-03	Dilution Factor:	1
Lab File ID:	YJ12027A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	12.1
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.9
MALATHION	ND	110	9.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	91	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3610	Date Analyzed:	10/12/00 21:41
Lab Samp ID:	J058-04	Dilution Factor:	1
Lab File ID:	YJ12028A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	11.4
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.8
MALATHION	ND	110	9.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	81	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3611	Date Analyzed:	10/12/00 22:05
Lab Samp ID:	J058-05	Dilution Factor:	1
Lab File ID:	YJ12029A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	13.5
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	120	7
MALATHION	ND	120	9.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	86	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3612	Date Analyzed:	10/12/00 15:25
Lab Samp ID:	J058-06	Dilution Factor:	1
Lab File ID:	YJ12015A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	21.9
Calib. Ref.:	YJ12008A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	130	7.7
MALATHION	ND	130	11

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	133	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3613	Date Analyzed:	10/12/00 15:49
Lab Samp ID:	J058-07	Dilution Factor:	1
Lab File ID:	YJ12016A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	28.0
Calib. Ref.:	YJ12008A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	140	8.4
MALATHION	ND	140	12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	134	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3614	Date Analyzed:	10/12/00 18:57
Lab Samp ID:	J058-08	Dilution Factor:	1
Lab File ID:	YJ12021A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	14.4
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	120	7.1
MALATHION	ND	120	9.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	101	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3615	Date Analyzed: 10/12/00 22:28
Lab Samp ID: J058-09	Dilution Factor: 1
Lab File ID: YJ12030A	Matrix : SOIL
Ext Btch ID: NPJ006S	% Moisture : 10.7
Calib. Ref.: YJ12020A	Instrument ID : GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.8
MALATHION	ND	110	9.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	102	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3616	Date Analyzed: 10/12/00 22:52
Lab Samp ID: J058-10	Dilution Factor: 1
Lab File ID: YJ12031A	Matrix : SOIL
Ext Btch ID: NPJ006S	% Moisture : 10.4
Calib. Ref.: YJ12020A	Instrument ID ; GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.7
MALATHION	ND	110	9.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	94	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3617	Date Analyzed:	10/12/00 23:15
Lab Samp ID:	J058-11	Dilution Factor:	1
Lab File ID:	YJ12032A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	9.4
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.7
MALATHION	ND	110	9.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	96	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3618	Date Analyzed:	10/12/00 16:13
Lab Samp ID:	J058-12	Dilution Factor:	1
Lab File ID:	YJ12017A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	5.2
Calib. Ref.:	YJ12008A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.4
MALATHION	ND	110	8.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	131	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3619	Date Analyzed:	10/12/00 19:44
Lab Samp ID:	J058-13	Dilution Factor:	1
Lab File ID:	YJ12023A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	9.0
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.6
MALATHION	ND	110	9.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	82	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3620	Date Analyzed:	10/12/00 23:39
Lab Samp ID:	J058-14	Dilution Factor:	1
Lab File ID:	YJ12033A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	11.4
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.8
MALATHION	ND	110	9.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	99	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3621	Date Analyzed:	10/13/00 00:02
Lab Samp ID:	J058-15	Dilution Factor:	1
Lab File ID:	YJ12034A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	9.9
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.7
MALATHION	ND	110	9.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	93	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3622	Date Analyzed:	10/13/00 00:26
Lab Samp ID:	J058-16	Dilution Factor:	1
Lab File ID:	YJ12035A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	10.9
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.8
MALATHION	ND	110	9.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	89	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3623	Date Analyzed:	10/12/00 14:15
Lab Samp ID:	J058-17	Dilution Factor:	1
Lab File ID:	YJ12012A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	6.9
Calib. Ref.:	YJ12008A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.5
MALATHION	ND	110	9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	115	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3624	Date Analyzed: 10/12/00 19:20
Lab Samp ID: J058-18	Dilution Factor: 1
Lab File ID: YJ12022A	Matrix : SOIL
Ext Btch ID: NPJ006S	% Moisture : 8.8
Calib. Ref.: YJ12020A	Instrument ID : GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.6
MALATHION	ND	110	9.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	101	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/11/00 20:00
Sample ID: 20242-3625	Date Analyzed: 10/12/00 20:07
Lab Samp ID: J058-19	Dilution Factor: 1
Lab File ID: YJ12024A	Matrix : SOIL
Ext Btch ID: NPJ006S	% Moisture : 9.9
Calib. Ref.: YJ12020A	Instrument ID : GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.7
MALATHION	ND	110	9.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	105	30-150

PRL: Project Reporting Limit

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	10/06/00
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/06/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	20242-3626	Date Analyzed:	10/12/00 20:54
Lab Samp ID:	J058-20	Dilution Factor:	1
Lab File ID:	YJ12026A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	7.7
Calib. Ref.:	YJ12020A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	110	6.5
MALATHION	ND	110	9.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	118	30-150

PRL: Project Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: EPA 8141A

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	NPJ006SB	NPJ006SL		
LAB FILE ID:	YJ12009A	YJ12010A		
DATE EXTRACTED:	10/11/0020:00	10/11/0020:00	DATE COLLECTED:	NA
DATE ANALYZED:	10/12/0013:28	10/12/0013:51	DATE RECEIVED:	10/11/00
PREP. BATCH:	NPJ006S	NPJ006S		
CALIB. REF:	YJ12008A	YJ12008A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	QC LIMIT (%)
Diazinon	ND	833	856	103	30-150
Malathion	ND	833	1020	122	30-150

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	QC LIMIT (%)
Triphenyl Phosphate	833	1020	122	30-150

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: EPA 8141A

MATRIX:	SOIL			% MOISTURE:	6.9
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	20242-3623				
LAB SAMP ID:	J058-17	J058-17M	J058-17S		
LAB FILE ID:	YJ12012A	YJ12013A	YJ12014A		
DATE EXTRACTED:	10/11/0020:00	10/11/0020:00	10/11/0020:00	DATE COLLECTED:	10/06/00
DATE ANALYZED:	10/12/0014:15	10/12/0014:38	10/12/0015:02	DATE RECEIVED:	10/06/00
PREP. BATCH:	NPJ006S	NPJ006S	NPJ006S		
CALIB. REF:	YJ12008A	YJ12008A	YJ12008A		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diazinon	ND	895	902	101	895	852	95	6	30-150	50
Malathion	ND	895	1050	117	895	1020	114	3	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
Triphenyl Phosphate	895	1110	124	895	1090	121	30-150

EPA METHOD 8141A
ORGANOPHOSPHORUS PESTICIDES

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/11/00
Batch No.	: 00J058	Date Extracted:	10/11/00 20:00
Sample ID:	MBLK1S	Date Analyzed:	10/12/00 13:28
Lab Samp ID:	NPJ006SB	Dilution Factor:	1
Lab File ID:	YJ12009A	Matrix :	SOIL
Ext Btch ID:	NPJ006S	% Moisture :	NA
Calib. Ref.:	YJ12008A	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
DIAZINON	ND	100	100
MALATHION	ND	100	100

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIPHENYL PHOSPHATE	110	30-150

PRL: Project Reporting Limit
MDL study ongoing. These values are not true MDLs

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3607	Date Analyzed: 10/13/00 16:17
Lab Samp ID: J058-01	Dilution Factor: 1
Lab File ID: QJ12036A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 5.5
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.3 | .75
2,4-DB	(ND) | ND	11	1.6 | 1.7
2,4,5-T	(ND) | ND	110	1.4 | 1.1
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .93
DALAPON	(ND) | ND	4200	.54 | .52
DICAMBA	1.6J | (ND)	210	1.1 | 1.3
DICHLOROPROP	(ND) | ND	530	.81 | 1.2
DINOSEB	1.5J | (ND)	53	1.3 | 1.1
MCPA	(ND) | ND	1100	170 | 160
MCPP	(ND) | ND	1100	130 | 75

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(58) | 55	30-150

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EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3608	Date Analyzed: 10/13/00 16:56
Lab Samp ID: J058-02	Dilution Factor: 1
Lab File ID: QJ12037A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 11.6
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .8
2,4-DB	(4.4J) | 11J	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | 1.0
DALAPON	(ND) | ND	4500	.58 | .56
DICAMBA	(ND) | ND	230	1.2 | 1.4
DICHLOROPROP	(ND) | ND	570	.87 | 1.3
DINOSEB	(ND) | ND	57	1.4 | 1.2
MCPA	(ND) | ND	1100	180 | 150
MCPP	(ND) | ND	1100	140 | 80

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(103) | 97	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3609	Date Analyzed: 10/13/00 17:34
Lab Samp ID: J058-03	Dilution Factor: 1
Lab File ID: QJ12038A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 12.1
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .81
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.3 | 1
DALAPON	13J | (ND)	4600	.58 | .56
DICAMBA	(ND) | ND	230	1.2 | 1.4
DICHLOROPROP	(ND) | ND	570	.87 | 1.3
DINOSEB	(ND) | ND	57	1.4 | 1.2
MCPA	(ND) | ND	1100	180 | 160
MCPP	(ND) | ND	1100	140 | 81

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(88) | 85	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3610	Date Analyzed: 10/13/00 18:13
Lab Samp ID: J058-04	Dilution Factor: 1
Lab File ID: QJ12039A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 11.4
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .8
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | 1.0
DALAPON	16J | (ND)	4500	.57 | .56
DICAMBA	(ND) | ND	230	1.2 | 1.4
DICHLOROPROP	(ND) | ND	560	.87 | 1.3
DINOSEB	(ND) | ND	56	1.4 | 1.2
MCPA	(ND) | ND	1100	180 | 150
MCPP	(ND) | ND	1100	140 | 80

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(104) | 101	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3611	Date Analyzed: 10/13/00 20:09
Lab Samp ID: J058-05	Dilution Factor: 1
Lab File ID: QJ12042A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 13.5
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	12	1.4 | .82
2,4-DB	(ND) | ND	12	1.7 | 1.9
2,4,5-T	(ND) | ND	120	1.5 | 1.3
2,4,5-TP(SILVEX)	(ND) | ND	120	1.3 | 1
DALAPON	12J | (ND)	4600	.59 | .57
DICAMBA	(ND) | ND	230	1.2 | 1.5
DICHLOROPROP	(ND) | ND	580	.89 | 1.3
DINOSEB	(ND) | ND	58	1.4 | 1.2
MCPA	(ND) | ND	1200	180 | 160
MCPP	(ND) | ND	1200	150 | 82

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(90) | 86	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3612	Date Analyzed: 10/13/00 20:48
Lab Samp ID: J058-06	Dilution Factor: 1
Lab File ID: QJ12043A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 21.9
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	13	1.6 | .91
2,4-DB	(ND) | 12J	13	1.9 | 2.1
2,4,5-T	(ND) | ND	130	1.7 | 1.4
2,4,5-TP(SILVEX)	12J | (ND)	130	1.4 | 1.1
DALAPON	20J | (ND)	5100	.65 | .64
DICAMBA	1.8J | (ND)	260	1.3 | 1.6
DICHLOROPROP	(ND) | ND	640	.98 | 1.5
DINOSEB	(ND) | ND	64	1.6 | 1.3
MCPA	(1600) | 6900	1300	200 | 180
MCPP	(ND) | ND	1300	160 | 91

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(35) | 34	30-150

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EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3613	Date Analyzed: 10/13/00 21:26
Lab Samp ID: J058-07	Dilution Factor: 1
Lab File ID: QJ12044A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 28.0
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(6.7J) | 5.2J	14	1.7 | .98
2,4-DB	(ND) | ND	14	2.1 | 2.2
2,4,5-T	(ND) | ND	140	1.8 | 1.5
2,4,5-TP(SILVEX)	(ND) | ND	140	1.5 | 1.2
DALAPON	18J | (ND)	5600	.71 | .69
DICAMBA	(ND) | ND	280	1.4 | 1.8
DICHLOROPROP	(ND) | ND	690	1.1 | 1.6
DINOSEB	(ND) | ND	69	1.7 | 1.4
MCPA	(ND) | ND	1400	220 | 190
MCPP	(ND) | ND	1400	170 | 99

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(45) | 43	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3614	Date Analyzed: 10/13/00 22:05
Lab Samp ID: J058-08	Dilution Factor: 1
Lab File ID: QJ12045A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 14.4
Calib. Ref.: QJ12032A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	12	1.4 | .83
2,4-DB	(ND) | ND	12	1.8 | 1.9
2,4,5-T	(ND) | ND	120	1.5 | 1.3
2,4,5-TP(SILVEX)	(ND) | ND	120	1.3 | 1
DALAPON	9.6J | (ND)	4700	.59 | .58
DICAMBA	(ND) | ND	230	1.2 | 1.5
DICHLOROPROP	4J | (ND)	580	.9 | 1.3
DINOSEB	(ND) | ND	58	1.5 | 1.2
MCPA	(ND) | ND	1200	180 | 160
MCPP	(ND) | ND	1200	150 | 83

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(85) | 81	30-150

Left of | is related to first column; Right of | related to second column
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EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3615	Date Analyzed: 10/14/00 00:01
Lab Samp ID: J058-09	Dilution Factor: 1
Lab File ID: QJ12048A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 10.7
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .79
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .99
DALAPON	18J | (ND)	4500	.57 | .56
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	560	.86 | 1.3
DINOSEB	(ND) | ND	56	1.4 | 1.1
MCPA	(ND) | ND	1100	180 | 150
MCPP	(ND) | ND	1100	140 | 80

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(77) | 75	30-150

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( ) included the reported data

EPA METHOD 8151A
HERBICIDES

lient : IT CORPORATION	Date Collected: 10/06/00
roject : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
atch No. : 00J058	Date Extracted: 10/12/00 19:00
ample ID: 20242-3616	Date Analyzed: 10/14/00 00:40
ab Samp ID: J058-10	Dilution Factor: 1
ab File ID: QJ12049A	Matrix : SOIL
xt Btch ID: HEJ004S	% Moisture : 10.4
alib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .79
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .99
DALAPON	12J | (ND)	4500	.57 | .55
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	560	.86 | 1.3
DINOSEB	(ND) | ND	56	1.4 | 1.1
MCPA	(ND) | ND	1100	180 | 150
MCPP	(ND) | ND	1100	140 | 79

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(82) | 78	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3617	Date Analyzed: 10/14/00 01:19
Lab Samp ID: J058-11	Dilution Factor: 1
Lab File ID: QJ12050A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 9.4
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.3 | .78
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .97
DALAPON	12J | (ND)	4400	.56 | .55
DICAMBA	2J | (ND)	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	550	.85 | 1.3
DINOSEB	(ND) | ND	55	1.4 | 1.1
MCPA	(ND) | ND	1100	170 | 150
MCPP	(ND) | ND	1100	140 | 78

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(84) | 81	30-150

Left of | is related to first column; Right of | related to second column
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EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3618	Date Analyzed: 10/14/00 01:58
Lab Samp ID: J058-12	Dilution Factor: 1
Lab File ID: QJ12051A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 5.2
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	3.3J | (ND)	11	1.3 | .75
2,4-DB	(5.6J) | 27	11	1.6 | 1.7
2,4,5-T	(ND) | ND	110	1.4 | 1.1
2,4,5-TP(SILVEX)	5J | (ND)	110	1.2 | .93
DALAPON	17J | (ND)	4200	.54 | .52
DICAMBA	2.2J | (ND)	210	1.1 | 1.3
DICHLOROPROP	(ND) | ND	530	.81 | 1.2
DINOSEB	1.3J | (ND)	53	1.3 | 1.1
MCPA	(ND) | ND	1100	170 | 140
MCPP	(ND) | ND	1100	150 | 75

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(64) | 62	30-150

Left of | is related to first column; Right of | related to second column
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EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3619	Date Analyzed: 10/14/00 02:36
Lab Samp ID: J058-13	Dilution Factor: 1
Lab File ID: QJ12052A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 9.0
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.3 | .78
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .97
DALAPON	(ND) | 9.6J	4400	.56 | .55
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	550	.84 | 1.3
DINOSEB	(ND) | ND	55	1.4 | 1.1
MCPA	(ND) | ND	1100	170 | 150
MCPP	(ND) | ND	1100	140 | 78

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(68) | 66	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3620	Date Analyzed: 10/14/00 03:15
Lab Samp ID: J058-14	Dilution Factor: 1
Lab File ID: QJ12053A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 11.4
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .8
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	2.1J | (ND)	110	1.2 | 1.0
DALAPON	(ND) | ND	4500	.57 | .56
DICAMBA	(ND) | ND	230	1.2 | 1.4
DICHLOROPROP	(ND) | ND	560	.87 | 1.3
[illegible]	(ND) | ND	56	1.4 | 1.2
[illegible]	(ND) | ND	1100	180 | 150
MCPP	(ND) | ND	1100	140 | 80

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(76) | 75	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3621	Date Analyzed: 10/14/00 03:54
Lab Samp ID: J058-15	Dilution Factor: 1
Lab File ID: QJ12054A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 9.9
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.3 | .79
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .98
DALAPON	(ND) | ND	4400	.56 | .55
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	550	.85 | 1.3
DINOSEB	(ND) | ND	55	1.4 | 1.1
MCPA	(ND) | ND	1100	170 | 150
MCPP	(ND) | ND	1100	140 | 79

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(89) | 84	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3622	Date Analyzed: 10/14/00 04:32
Lab Samp ID: J058-16	Dilution Factor: 1
Lab File ID: QJ12055A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 10.9
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.4 | .8
2,4-DB	(ND) | ND	11	1.7 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	2.1J | (ND)	110	1.2 | .99
DALAPON	19J | (ND)	4500	.57 | .56
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	560	.86 | 1.3
DINOSEB	(ND) | ND	56	1.4 | 1.2
MCPA	(ND) | ND	1100	180 | 150
MCPP	(ND) | ND	1100	140 | 80

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(88) | 86	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

lient : IT CORPORATION	Date Collected: 10/06/00
roject : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
atch No. : 00J058	Date Extracted: 10/12/00 19:00
ample ID: 20242-3623	Date Analyzed: 10/14/00 05:11
ab Samp ID: J058-17	Dilution Factor: 1
ab File ID: QJ12056A	Matrix : SOIL
xt Btch ID: HEJ004S	% Moisture : 6.9
alib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	2.4J | (ND)	11	1.3 | .76
2,4-DB	(ND) | ND	11	1.6 | 1.7
2,4,5-T	(ND) | ND	110	1.4 | 1.2
2,4,5-TP(SILVEX)	(ND) | 4.6J	110	1.2 | .95
DALAPON	21J | (ND)	4300	.55 | .53
DICAMBA	2.2J | (ND)	210	1.1 | 1.4
DICHLOROPROP	2.6J | (ND)	540	.82 | 1.2
DINOSEB	3.4J | (ND)	54	1.3 | 1.1
MCPA	(3600) | 37000E	1100	170 | 150
MCPP	(ND) | ND	1100	140 | 76

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(87) | 85	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3624	Date Analyzed: 10/14/00 05:50
Lab Samp ID: J058-18	Dilution Factor: 1
Lab File ID: QJ12057A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 8.8
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.3 | .78
2,4-DB	(ND) | ND	11	1.6 | 1.8
2,4,5-T	(ND) | ND	110	1.5 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .97
DALAPON	11J | (ND)	4400	.56 | .54
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	550	.84 | 1.3
DINOSEB	(ND) | ND	55	1.4 | 1.1
MCPA	(ND) | ND	1100	170 | 150
MCPP	(ND) | ND	1100	140 | 78

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(63) | 59	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3625	Date Analyzed: 10/14/00 06:28
Lab Samp ID: J058-19	Dilution Factor: 1
Lab File ID: QJ12058A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 9.9
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)		PRL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)	ND	11	1.3	.79
2,4-DB	(ND)	ND	11	1.7	1.8
2,4,5-T	(ND)	ND	110	1.5	1.2
2,4,5-TP(SILVEX)	(ND)	ND	110	1.2	.98
DALAPON	19J	(ND)	4400	.56	.55
DICAMBA	(ND)	ND	220	1.1	1.4
DICHLOROPROP	(ND)	ND	550	.85	1.3
DINOSEB	(ND)	ND	55	1.4	1.1
MCPA	(ND)	ND	1100	570	150
MCPP	(ND)	ND	1100	140	79

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
2,4-DCPAA	(95)	90	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

Client : IT CORPORATION	Date Collected: 10/06/00
Project : MCAS EL TORO/20242/D.O. 112	Date Received: 10/06/00
Batch No. : 00J058	Date Extracted: 10/12/00 19:00
Sample ID: 20242-3626	Date Analyzed: 10/14/00 07:07
Lab Samp ID: J058-20	Dilution Factor: 1
Lab File ID: QJ12059A	Matrix : SOIL
Ext Btch ID: HEJ004S	% Moisture : 7.7
Calib. Ref.: QJ12046A	Instrument ID : GCT009

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
2,4-D	(ND) | ND	11	1.3 | .77
2,4-DB	(ND) | ND	11	1.6 | 1.7
2,4,5-T	(ND) | ND	110	1.4 | 1.2
2,4,5-TP(SILVEX)	(ND) | ND	110	1.2 | .96
DALAPON	16J | (ND)	4300	.55 | .54
DICAMBA	(ND) | ND	220	1.1 | 1.4
DICHLOROPROP	(ND) | ND	540	.83 | 1.2
DINOSEB	(ND) | ND	54	1.4 | 1.1
MCPA	(ND) | ND	1100	170 | 150
MCPP	(ND) | ND	1100	140 | 77

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4-DCPAA	(78) | 74	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EPA METHOD 8151A
HERBICIDES

lient	: IT CORPORATION	Date Collected:	NA
roject	: MCAS EL TORO/20242/D.O. 112	Date Received:	10/12/00
atch No.	: 00J058	Date Extracted:	10/12/00 19:00
ample ID:	MBLK1S	Date Analyzed:	10/13/00 15:00
ab Samp ID:	HEJ004SB	Dilution Factor:	1
ab File ID:	QJ12034A	Matrix :	SOIL
xt Btch ID:	HEJ004S	% Moisture :	NA
alib. Ref.:	QJ12032A	Instrument ID :	GCT009

PARAMETERS	RESULTS (ug/kg)		PRL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)	ND	10	1.2	.71
2,4-DB	(ND)	ND	10	1.5	1.6
2,4,5-T	(ND)	ND	100	1.3	1.1
2,4,5-TP(SILVEX)	(ND)	ND	100	1.1	.88
DALAPON	17J	(ND)	4000	.51	.5
DICAMBA	(ND)	ND	200	1	1.3
DICHLOROPROP	(ND)	ND	500	.77	1.2
DINOSEB	(ND)	ND	50	1.3	1
MCPA	(ND)	ND	1000	160	140
MCPP	(ND)	ND	1000	130	71

SURROGATE PARAMETERS	% RECOVERY		QC LIMIT
2,4-DCPAA	(99)	93	30-150

Left of | is related to first column; Right of | related to second column
( ) included the reported data

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: EPA 8151A

MATRIX: SOIL
% MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HEJ004SB HEJ004SL
LAB FILE ID: QJ12034A QJ12035A
DATE EXTRACTED: 10/12/0019:00 10/12/0019:00
DATE COLLECTED: NA
DATE ANALYZED: 10/13/0015:00 10/13/0015:38
DATE RECEIVED: 10/12/00
PREP. BATCH: HEJ004S HEJ004S
CALIB. REF: QJ12032A QJ12032A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	QC LIMIT (%)
2,4-D	(ND) | ND	50	31.1 | (34.8)	62 | (70)	30-150
2,4,5-T	(ND) | ND	50	(41.2J) | 41.2J	(82) | 82	30-150
2,4,5-TP(Silvex)	(ND) | ND	50	(41.5J) | 35.4J	(83) | 71	30-150

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	QC LIMIT (%)
2,4-DCPAA	500	(450) | 434	(90) | 87	30-150

5328

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/20242/D.O. 112
BATCH NO.: 00J058
METHOD: EPA 8151A

MATRIX: SOIL
% MOISTURE: 11.4

DILUTION FACTOR:	1	1	1
SAMPLE ID:	20242-3610		
LAB SAMP ID:	J058-04	J058-04M	J058-04S
LAB FILE ID:	QJ12039A	QJ12040A	QJ12041A
DATE EXTRACTED:	10/12/0019:00	10/12/0019:00	10/12/0019:00
DATE ANALYZED:	10/13/0018:13	10/13/0018:51	10/13/0019:30
PREP. BATCH:	HEJ004S	HEJ004S	HEJ004S
CALIB. REF:	QJ12032A	QJ12032A	QJ12032A

DATE COLLECTED: 10/06/00
DATE RECEIVED: 10/06/00

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
2,4-D	(ND) | ND	56.4	46.2 | (52.6)	82 | (93)	56.4	48.4 | (53.9)	86 | (96)	5 | (2)	30-150	50
2,4,5-T	(ND) | ND	56.4	57.5J | (58.8J)	102 | (104)	56.4	61.4J | (62J)	109 | (110)	7 | (5)	30-150	50
2,4,5-TP(Silvex)	(ND) | ND	56.4	(59.4J) | 49.2J	(105) | 87	56.4	(60.7J) | 51.3J	(108) | 91	(2) | 4	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
2,4-DCPAA	564	(575) | 558	(102) | 99	564	(599) | 583	(106) | 103	30-150

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 6, 2000

LDC Report Date: November 13, 2000

Matrix: Soil

Parameters: Strychnine

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00J058

Sample Identification

20242-3607	20242-3607MS
20242-3608	20242-3607MSD
20242-3609	
20242-3610	
20242-3611	
20242-3612	
20242-3613	
20242-3614	
20242-3615	
20242-3616	
20242-3617**	
20242-3618	
20242-3619	
20242-3620	
20242-3621	
20242-3622**	
20242-3623	
20242-3624	
20242-3625	
20242-3626	

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 22 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270B for Strychnine.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review. NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 20.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No strychnine was found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
20242-3607MS/MSD (All samples in SDG 00J058)	Strychnine	-	29 (30-150)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

XV. Overall Assessment

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples 20242-3616 and 20242-3617** and samples 20242-3621 and 20242-3622** were identified as field duplicates. No strychnine was detected in any of the samples.

XVII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Strychnine - Data Qualification Summary - SDG 00J058

SDG	Sample	Compound	Flag	A or P	Reason
00J058	20242-3607 20242-3608 20242-3609 20242-3610 20242-3611 20242-3612 20242-3613 20242-3614 20242-3615 20242-3616 20242-3617** 20242-3618 20242-3619 20242-3620 20242-3621 20242-3622** 20242-3623 20242-3624 20242-3625 20242-3626	Strychnine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)

MCAS El Toro
Strychnine - Laboratory Blank Data Qualification Summary - SDG 00J058

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 6, 2000

LDC Report Date: November 13, 2000

Matrix: Soil

Parameters: Chlorinated Pesticides & Dicofol

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00J058

Sample Identification

20242-3607
20242-3607DL
20242-3608
20242-3609
20242-3610
20242-3611
20242-3612
20242-3613
20242-3614
20242-3615
20242-3616
20242-3617**
20242-3618
20242-3619
20242-3620
20242-3621
20242-3622**
20242-3623
20242-3624
20242-3625
20242-3626
20242-3607MS
20242-3607MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 23 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081 for Chlorinated Pesticides and Dicofol.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples on which a Level C review was performed.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

Retention times (RT) of all compounds in the calibration standards were within QC limits for samples on which a NFESC Level D review was performed.

Raw data were not evaluated for the samples on which a Level C review was performed.

The individual 4,4'-DDT and Endrin breakdowns were less than 15.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants or dicofol were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria

XII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
20242-3607	4,4'-DDE	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not evaluated for the samples reviewed by Level C criteria.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples 20242-3616 and 20242-3617** and samples 20242-3621 and 20242-3622** were identified as field duplicates. No chlorinated pesticides or dicofol were detected in any of the samples.

XV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Chlorinated Pesticides & Dicofol - Data Qualification Summary - SDG 00J058

SDG	Sample	Compound	Flag	A or P	Reason
00J058	20242-3607	4,4'-DDE	J (all detects)	A	Compound quantitation and CRQLs

MCAS El Toro
Chlorinated Pesticides & Dicofol - Laboratory Blank Data Qualification Summary - SDG 00J058

No Sample Data Qualified in this SDG

LDC Report# 5589E5

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 6, 2000

LDC Report Date: November 11, 2000

Matrix: Soil

Parameters: Herbicides

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc

Sample Delivery Group (SDG): 00J058

Sample Identification

20242-3607	20242-3610MS
20242-3608	20242-3610MSD
20242-3609	
20242-3610	
20242-3611	
20242-3612	
20242-3613	
20242-3614	
20242-3615	
20242-3616	
20242-3617**	
20242-3618	
20242-3619	
20242-3620	
20242-3621	
20242-3622**	
20242-3623	
20242-3624	
20242-3625	
20242-3626	

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 22 soil samples listed on the cover sheet including dilutions and reanalysis as applicable The analyses were per EPA SW 846 Method 8151A for Herbicides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above

A table summarizing all data qualification flags is provided at the end of this report Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature

Blank results are summarized in Section III

Field duplicates are summarized in Section IX

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review NFESC Level C review was performed on all of the other samples Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is based on QC data

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable

N Presumptive evidence of presence of the constituent

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples on which NFESC Level C review was performed.

b. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

Retention times (RT) of all compounds in the calibration standards were within QC limits for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples on which NFESC Level C review was performed.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No herbicide contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/(Matrix Spike) Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed Raw data were not evaluated for the samples reviewed by NFESC Level C criteria

VII. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report

IX. Field Duplicates

Samples 20242-3616 and 20242-3617** and samples 20242-3621 and 20242-3622** were identified as field duplicates No herbicides were detected in any of the samples.

X. Field Blanks

No field blanks were identified in this SDG

MCAS El Toro
Herbicides - Data Qualification Summary - SDG 00J058

No Sample Data Qualified in this SDG

MCAS El Toro
Herbicides - Laboratory Blank Data Qualification Summary - SDG 00J058

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: October 6, 2000

LDC Report Date: November 13, 2000

Matrix: Soil

Parameters: Organophosphorus Pesticides

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00J058

Sample Identification

20242-3607	20242-3623MS
20242-3608	20242-3623MSD
20242-3609	
20242-3610	
20242-3611	
20242-3612	
20242-3613	
20242-3614	
20242-3615	
20242-3616	
20242-3617**	
20242-3618	
20242-3619	
20242-3620	
20242-3621	
20242-3622**	
20242-3623	
20242-3624	
20242-3625	
20242-3626	

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 22 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8141A for Organophosphorus Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review. NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples on which NFESC Level C review was performed.

b. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were less than or equal to 15.0% .

Retention times (RT) of all compounds in the calibration standards were within QC limits for samples on which NFESC Level D review was performed.

Raw data were not evaluated for the samples on which NFESC Level C review was performed.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No organophosphorus pesticide contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. The percent recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

IX. Field Duplicates

Samples 20242-3616 and 20242-3617** and samples 20242-3621 and 20242-3622** were identified as field duplicates. No organophosphorus pesticides were detected in any of the samples.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Organophosphorus Pesticides - Data Qualification Summary - SDG 00J058

No Sample Data Qualified in this SDG

MCAS El Toro
Organophosphorus Pesticides - Laboratory Blank Data Qualification Summary - SDG 00J058

No Sample Data Qualified in this SDG