

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

AMEC Earth & Environmental
550 South Wadsworth Boulevard
Suite 500
Lakewood, CO 80226

Package ID T713MT7

Task Order 313150010

SDG No. Multiple

No. of Analyses 4

Laboratory Del Mar - Irvine

Reviewer E. Wessling

Analysis/Method Metals

Date: December 7, 2005

Reviewer's Signature [Signature]

ACTION ITEMS^a

Case Narrative
Deficiencies

2. Out of Scope
Analyses

3. Analyses Not Conducted

4. Missing Hardcopy
Deliverables

5. Incorrect Hardcopy
Deliverables

6. Deviations from Analysis
Protocol, e.g.,

Holding Times

GC/MS Tune/Inst. Performance

Calibration

Method blanks

Surrogates

Matrix Spike/Dup LCS

Field QC

Internal Standard Performance

Compound Identification

Quantitation

System Performance

Qualifications were assigned for the following:

Method and calibration blank contamination

ICV calibration outliers

COMMENTS^b

^a Subcontracted analytical laboratory is not meeting contract and/or method requirements.

^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.



DATA VALIDATION REPORT

Topanga Fire Ash Samples

ANALYSIS: METALS

SAMPLE DELIVERY GROUP: IOJ1234, IOJ1235, IOJ1236,
IOJ1337

Prepared by

AMEC—Denver Operations
355 South Teller Street, Suite 300
Lakewood, Colorado 80226

DATA VALIDATION REPORT

Project: Topanga Fire
SDG No.: Multiple
Analysis: METALS

1. INTRODUCTION

Task Order Title: Topanga Fire Ash Samples
Contract Task Order #: 313150010
SDG#: IOJ1234, IOJ1235, IOJ1236, and IOJ1337
Project Manager: P. Costa
Matrix: Water
Analysis: Metals
QC Level: Level IV
No. of Samples: 4
No. of Reanalyses/Dilutions: 0
Reviewer: E. Wessling
Date of Review: December 7, 2005

The samples listed in Table 1 were validated based on the guidelines outlined in the *AMEC Data Validation Procedure for Levels III and IV ICP Metals* (DVP-5, Rev. 2), *SW-846 Methods 6010B for ICP-AES and 7471A for Mercury (Manual Cold-Vapor Technique)*, and validation guidelines outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review* (2/94). Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

DATA VALIDATION REPORT

Project: Topanga Fire
SDG No.: Multiple
Analysis: METALS

Table 1. Sample identification

Client ID	EPA ID	Laboratory ID	Matrix	COC Method
PCC-1	WL034	IOJ1234-01	Water	200.7/200.8/245.1
CF-1	WL033	IOJ1235-01	Water	200.7/200.8/245.1
SSM-1	WL032	IOJ1236-01	Water	200.7/200.8/245.1
WC-1	WL035	IOJ1337-01	Water	200.7/200.8/245.1

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

One of the samples in this SDG was received at the laboratory above the temperature limits of 4°C \pm 2°C, at 17°C; however, as the samples were not volatile in nature, no qualifications were required. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The COC was signed and dated by field and laboratory personnel. The COC accounted for the samples and analyses presented in this SDG. No sample qualifications were required.

2.1.3 Holding Times

The dates of collection recorded on the COC and the dates of analyses recorded in the raw data, documented that the sample analyses were performed within the specified holding times of six months for the ICP and ICP/MS metals and 28-days for mercury. No qualifications were required.

2.2 ICP-MS TUNING

The ICP-MS met the method specified tune criteria; therefore, no qualifications were required for ICP-MS tuning.

2.3 CALIBRATION

The ICV and CCV results showed acceptable recoveries, 90-110% for ICP and ICP/MS metals and 80-120% for mercury. The laboratory analyzed reporting limit check standards in association with these SDGs and all recoveries were acceptable with the ICV for zinc associated with samples PCC-1, CF-1, and SSM-1. Zinc was qualified as an estimated detect in these samples. No further qualifications were required.

2.4 BLANKS

Negative values for boron and chromium were detected in method blank 5J20094-BLK1 at -0.0128 and -0.0042 mg/L; respectively. Associated detects were qualified as estimated detects, "J", up to five times the absolute value of the negative detect and nondetects were qualified as estimated nondetects, "UJ."

DATA VALIDATION REPORT

Project: Topanga Fire
SDG No.: Multiple
Analysis: METALS

Cadmium and thallium were detected in method blank 5J19098-BLK1 at 0.10857 and 0.44239 mg/L; respectively. Cadmium was detected in method blank 5J20094-BLK1 at 0.0580 ug/L. Detects were qualified as estimated nondetects, "UJ." Iron was detected in method blank 5J20104-BLK1 at 0.162 mg/L, however, the method blank result was insufficient to qualify the iron sample results. Nickel was detected at levels up to 0.0163 mg/L and boron was detected up to -0.0775 mg/L in the CCBs associated with samples PCC-1, CF-1, and SSM-1. The remaining method blank and CCB results were nondetects at the reporting limit. No qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

ICSA and ICSAB analyses were included in the raw data for the ICP and ICP/MS analyses. The recoveries were within the control limits and no qualifications were required.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The ICP LCS samples, ICP/MS LCS samples and mercury LCS samples as reported on the LCS on the summary forms and in the raw data were within the laboratory-established control limits. No qualifications were required.

2.7 LABORATORY DUPLICATES

MS/MSD analyses were performed on samples not associated with these sites. No evaluation was made for the samples in these SDGs.

2.8 MATRIX SPIKE

MS/MSD analyses were performed on samples not associated with these sites. No evaluation was made for the samples in these SDGs.

2.9 FURNACE ATOMIC ABSORPTION QC

Furnace atomic absorption was not utilized for the analyses of these samples; therefore, furnace atomic absorption QC is not applicable.

2.10 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the samples in this SDG; therefore, no assessment was made with respect to this criterion.

2.11 INTERNAL STANDARDS PERFORMANCE

For the target compounds analyzed by ICP/MS, the ICP/MS internal standards were within established control limits. No qualifications were required.

2.12 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the samples in this data package. Calculations were verified, and the sample results reported on the Form Is were verified against the raw data. No transcription errors or calculation errors were noted. Some target analytes were reported from dilution analyses due to matrix interference. Reporting limits and MDLs were adjusted accordingly. No qualifications were required.

2.13 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.13.1 Field Blanks and Equipment Rinsates

The samples in this SDG had no associated field QC samples. No qualifications were required.

2.13.2 Field Duplicates

There were no field duplicate analyses performed in association with the site samples.



Del Mar Analytical

17461 Dorian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (619) 505-8596 FAX (619) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
Palo Comado Canyon
Report Number: IOJ1234

Sampled: 10/18/05
Received: 10/18/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Best Qual	Qual Code
Sample ID: IOJ1234-01 (WL034 - Water) - cont.											
Reporting Units: mg/l											
Barium	EPA 200.7	5J19080	0.0028	0.010	0.19	1	10/19/05	10/22/05			
Boron	EPA 200.7	5J19080	0.0080	0.050	0.047	1	10/19/05	10/22/05	J	J	3,000
Iron	EPA 200.7	5J19080	0.0088	0.040	12	1	10/19/05	10/24/05			

Del Mar Analytical, Irvine
Michele Harper
Project Manager

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 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (619) 505-8596 FAX (619) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
 Palo Comado Canyon
 Report Number: IOJ1234

Sampled: 10/18/05
 Received: 10/18/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1234-01 (WL034 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8	5J19098	0.18	2.0	0.56	1	10/19/05	10/20/05	J
Arsenic	EPA 200.7	5J19080	3.8	5.0	6.0	1	10/19/05	10/22/05	J, B
Beryllium	EPA 200.7	5J19080	0.62	2.0	ND	1	10/19/05	10/22/05	J, B
Cadmium	EPA 200.8	5J19098	0.015	1.0	0.34	1	10/19/05	10/20/05	J, B
Chromium	EPA 200.7	5J19080	0.68	5.0	13	1	10/19/05	10/24/05	J, B
Cobalt	EPA 200.7	5J19080	2.0	10	6.6	1	10/19/05	10/22/05	J
Copper	EPA 200.8	5J19098	0.49	2.0	9.5	1	10/19/05	10/20/05	J
Lead	EPA 200.8	5J19098	0.13	1.0	13	1	10/19/05	10/20/05	J
Manganese	EPA 200.7	5J19080	3.2	20	910	1	10/19/05	10/22/05	J, B
Mercury	EPA 245.1	5J19052	0.063	0.20	ND	1	10/19/05	10/19/05	J, B
Nickel	EPA 200.7	5J19080	2.0	10	20	1	10/19/05	10/22/05	J, B
Selenium	EPA 200.8	5J19098	0.36	2.0	2.1	1	10/19/05	10/20/05	J, B
Silver	EPA 200.8	5J19098	0.089	1.0	ND	1	10/19/05	10/20/05	J, B
Thallium	EPA 200.8	5J19098	0.075	1.0	0.12	1	10/19/05	10/20/05	J, B
Vanadium	EPA 200.7	5J19080	3.0	10	22	1	10/19/05	10/22/05	J, B
Zinc	EPA 200.7	5J19080	3.7	20	59	1	10/19/05	10/22/05	J, B

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 Michele Harper
 Project Manager

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite 8-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
China Flat
Report Number: IOJ1235

Sampled: 10/18/05
Received: 10/18/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Rev	Anal	code
Sample ID: IOJ1235-01 (WL033 - Water) - cont.												
Reporting Units: mg/l												
Barium	EPA 200.7	5J19080	0.0028	0.010	0.21	1	10/19/05	10/22/05	J	J		B, D, K
Boron	EPA 200.7	5J19080	0.0080	0.050	0.029	1	10/19/05	10/22/05				
Iron	EPA 200.7	5J19080	0.0088	0.040	10	1	10/19/05	10/24/05				

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Project Manager

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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
China Flat
Report Number: IOJ1235

Sampled: 10/18/05
Received: 10/18/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Row Qual	Qual Cond
Sample ID: IOJ1235-01 (WL033 - Water) - cont.											
Reporting Units: ug/l											
Antimony	EPA 200.8	5J19098	0.18	2.0	0.90	1	10/19/05	10/20/05	J	J	DNG
Arsenic	EPA 200.7	5J19080	3.8	5.0	ND	1	10/19/05	10/22/05		U	
Beryllium	EPA 200.7	5J19080	0.62	2.0	ND	1	10/19/05	10/22/05		U	
Cadmium	EPA 200.8	5J19098	0.015	1.0	0.23	1	10/19/05	10/20/05	J, B	UJ	B
Chromium	EPA 200.7	5J19080	0.68	5.0	10	1	10/19/05	10/24/05		UJ	B
Cobalt	EPA 200.7	5J19080	2.0	10	5.5	1	10/19/05	10/22/05	J	J	DNG
Copper	EPA 200.8	5J19098	0.49	2.0	11	1	10/19/05	10/20/05			
Lead	EPA 200.8	5J19098	0.13	1.0	7.4	1	10/19/05	10/20/05			
Manganese	EPA 200.7	5J19080	3.2	20	760	1	10/19/05	10/22/05			
Mercury	EPA 245.1	5J19052	0.063	0.20	ND	1	10/19/05	10/19/05		U	B
Nickel	EPA 200.7	5J19080	2.0	10	21	1	10/19/05	10/22/05		UJ	
Selenium	EPA 200.8	5J19098	0.36	2.0	2.0	1	10/19/05	10/20/05		U	
Silver	EPA 200.8	5J19098	0.089	1.0	ND	1	10/19/05	10/20/05		U	B
Thallium	EPA 200.8	5J19098	0.075	1.0	0.15	1	10/19/05	10/20/05	B, J	UJ	
Vanadium	EPA 200.7	5J19080	3.0	10	18	1	10/19/05	10/22/05			
Zinc	EPA 200.7	5J19080	3.7	20	46	1	10/19/05	10/22/05		J	R

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
Santa Susana Mts
Report Number: IOJ1236

Sampled: 10/18/05
Received: 10/18/05

METALS

METALS											
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Rev Qual	Qual
Sample ID: IOJ1236-01 (WL032 - Water) - cont.											
Reporting Units: ug/l											
Antimony	EPA 200.8	SJ19098	0.36	4.0	ND	2	10/19/05	10/21/05	RL-1	U	
Arsenic	EPA 200.7	SJ19080	3.8	5.0	ND	1	10/19/05	10/22/05		U	
Beryllium	EPA 200.7	SJ19080	0.62	2.0	ND	1	10/19/05	10/22/05		U	
Cadmium	EPA 200.8	SJ19098	0.030	2.0	0.098	2	10/19/05	10/21/05	B, RL-1, J	UJ	B
Chromium	EPA 200.7	SJ19080	0.68	5.0	6.3	1	10/19/05	10/24/05		UJ	B
Cobalt	EPA 200.7	SJ19080	2.0	10	3.5	1	10/19/05	10/22/05	J	J	DNV
Copper	EPA 200.8	SJ19098	2.0	8.0	9.9	4	10/19/05	10/20/05			
Lead	EPA 200.8	SJ19098	0.52	4.0	6.6	4	10/19/05	10/20/05			
Manganese	EPA 200.7	SJ19080	3.2	20	270	1	10/19/05	10/22/05		U	
Mercury	EPA 245.1	SJ19052	0.063	0.20	ND	1	10/19/05	10/19/05		UJ	B
Nickel	EPA 200.7	SJ19080	2.0	10	27	1	10/19/05	10/22/05	RL-1	U	
Selenium	EPA 200.8	SJ19098	0.72	4.0	ND	2	10/19/05	10/21/05	RL-1	U	
Silver	EPA 200.8	SJ19098	0.18	2.0	ND	2	10/19/05	10/21/05	RL-1	U	
Thallium	EPA 200.8	SJ19098	0.15	2.0	ND	2	10/19/05	10/21/05	RL-1	U	
Vanadium	EPA 200.7	SJ19080	3.0	10	9.9	1	10/19/05	10/22/05	J	J	DNV
Zinc	EPA 200.7	SJ19080	3.7	20	63	1	10/19/05	10/22/05		J	B

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Project Manager

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
Santa Susana Mts
Report Number: IOJ1236

Sampled: 10/18/05
Received: 10/18/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Data
Sample ID: IOJ1236-01 (WL032 - Water) - cont. Reporting Units: mg/l										
Barium	EPA 200.7	SJ19080	0.0028	0.010	0.079	1	10/19/05	10/22/05	Raw Qual	Qual
Boron	EPA 200.7	SJ19080	0.0080	0.050	ND	1	10/19/05	10/22/05	uJ	B
Iron	EPA 200.7	SJ19080	0.0088	0.040	4.3	1	10/19/05	10/24/05		

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
Wildwood Canyon
Report Number: IOJ1337

Sampled: 10/18/05
Received: 10/19/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1337-01 (WL035 - Water) - cont. Reporting Units: mg/l									
Barium	EPA 200.7	5J20104	0.0028	0.010	0.48	1	10/20/05	10/28/05	Raw Qual
Boron	EPA 200.7	5J20104	0.0080	0.050	0.055	1	10/20/05	10/28/05	u.s. Qual Code
Iron	EPA 200.7	5J20104	0.0088	0.040	51	1	10/20/05	10/28/05	B

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Michele Harper
Project Manager

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 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9630 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Offsite Storm Water Samples
 Wildwood Canyon
 Report Number: IOJ1337

Sampled: 10/18/05
 Received: 10/19/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1337-01 (WL035 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8	5J20094	0.18	2.0	0.42	1	10/20/05	10/20/05	J J DNR
Arsenic	EPA 200.7	5J20104	3.8	5.0	12	1	10/20/05	10/28/05	J J DNR
Beryllium	EPA 200.7	5J20104	0.62	2.0	1.5	1	10/20/05	10/28/05	J, B U J B
Cadmium	EPA 200.8	5J20094	0.015	1.0	0.20	1	10/20/05	10/20/05	
Chromium	EPA 200.8	5J20104	0.68	5.0	92	1	10/20/05	10/28/05	
Cobalt	EPA 200.7	5J20104	2.0	10	33	1	10/20/05	10/28/05	
Copper	EPA 200.7	5J20104	0.49	2.0	34	1	10/20/05	10/20/05	
Lead	EPA 200.8	5J20094	0.13	1.0	19	1	10/20/05	10/20/05	
Manganese	EPA 200.8	5J20094	0.13	1.0	19	1	10/20/05	10/28/05	
Mercury	EPA 200.7	5J20104	3.2	20	1800	1	10/20/05	10/28/05	U
Nickel	EPA 245.1	5J20058	0.063	0.20	ND	1	10/20/05	10/20/05	
Selenium	EPA 200.7	5J20104	2.0	10	83	1	10/20/05	10/28/05	J J DNR
Silver	EPA 200.8	5J20094	0.36	2.0	0.75	1	10/20/05	10/20/05	J U
Thallium	EPA 200.8	5J20094	0.089	1.0	ND	1	10/20/05	10/20/05	J J DNR
Vanadium	EPA 200.8	5J20094	0.075	1.0	0.32	1	10/20/05	10/20/05	
Zinc	EPA 200.7	5J20104	3.0	10	110	1	10/20/05	10/28/05	
	EPA 200.7	5J20104	3.7	20	180	1	10/20/05	10/28/05	

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager

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