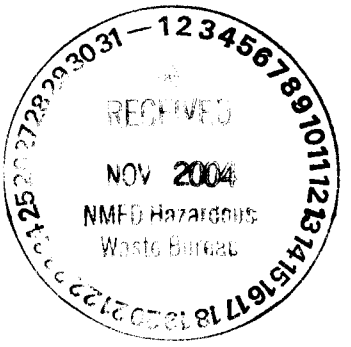
James PSC04

PHILIPS

Philips Semiconductors

October 25, 2004



Mr. William McDonald
New Mexico Environment Department
c/o Sandia National Laboratory
P.O. Box 5800/MS-1087
Albuquerque, NM 87185

SUBJECT: Quarterly Progress Report

Dear Mr. McDonald:

In compliance with Philips Semiconductors' HSWA permit (NMD000709782-1), modified March 18, 1996, this letter serves as the quarterly progress report as required. The following progress has been made between July 1, 2004, and September 1, 2004:

- *D.1(a) - A description of the work completed and an estimate of the percentage of work completed:* Quarterly groundwater monitoring was completed on August 23, 2004. Nine (9) monitoring wells were sampled on the Philips site and four off-site NCLF wells. The five Philips wells were MW-1, MW-2, MW4, MW-5, MW-6, and the four NCLF wells were 2, 4, 3 and 8.

- *D.1(b) - Summaries of all findings, including summaries of laboratory data:* A quarterly groundwater monitoring report is included with this report for your files. All wells were sampled only for Tetrachlorethylene (PCE). This change is in accordance with the Class I Permit Modification issued by NMED to Philips Semiconductors on January 6, 2000 that places all Philips wells on annual monitoring frequency.

- *D.1(c) - Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems:* No problems identified.

- *D.1(d) - Projected work for the next reporting period:* Per your September 24, 2004, letter Philips will forgo conducting the final quarter of groundwater monitoring.

- *D.1(e) - Summaries of contacts pertaining to corrective action or environmental matters with representatives of the local community, public interest groups or State government during the reporting period:*
  No contact or communication made this quarter.

PHILIPS
Philips Semiconductors, Inc.
1109 McKay Drive
San Jose, CA 95131-1706
(408) 434-3000
www.philips.com

- *D.1(f) - Changes in key project personnel during the reporting period:* No changes.

- *D.1(g) - Summaries of all changes made in implementation during the reporting period:* No Changes.

If you have any questions regarding this submission, please call our technical contact Glen Tsukamoto at (408) 474-6129.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Glen Tsukamoto for

Keith Flagler
VP and General Manager, Semiconductor Shared Services

cc:
w/ enclosure:
James Harris, USEPA Region VI
Doug Earp, City of Albuquerque
Philips Semiconductors Environmental File

w/o enclosures:

Philips Legal Counsel - Sunnyvale
James P. Bearzi, NMED
Baird Swanson, NMED/GWP

Sangre De Cristo Sciences, LLC

9012 Washington NE • Albuquerque NM 87113-2704
(505) 822-8061 • Fax (505) 822-8063

September 23, 2004

Mr. Bob Sanders
EHS Manager
Philips Semiconductors, Inc.
9201 Pan American Highway NE
Albuquerque, NM 87113

Re: August 2004 Groundwater Monitoring Results

Philips Semiconductors Albuquerque Facility

Dear Bob,

The following information outlines the events as they took place by *Sangre De Cristo Sciences, LLC*. On August 23, 2004 representatives from *Sangre De Cristo Sciences, LLC (SDCS, LLC)* performed the quarterly monitoring of 9 groundwater wells on **Philips Semiconductors** site and on off site NCLF city wells. Two wells at the Philips site, MW-1, MW-2, MW-4, MW-5 & MW-6, and four wells at the former Nazareth Colorado Landfill (NCLF- 2, 4, 3 & 8) were measured for groundwater levels, purged and sampled pursuant to the protocol as listed in the statement of work provided by **Philips Semiconductors**. Additionally, MW-5 was sampled in duplicate for QC purposes and listed on the chain of custody as MW-8.

Mr. Scott Pratt and Mr. Elvin J. Chavez of *SDCS, LLC* conducted the groundwater monitoring in accordance with the scope of work. All wells were sampled with a stainless steel Grundfos Rediflo 2 pump, reel and PTFE tubing. Wells were sampled in order of cleanest or least contaminated to dirtiest or those with higher concentrations of contaminants. ***Field notes are included as Attachment 1.***

Also of concern, were Monitor Wells 6, 4 and NCLF 8. Though these wells have exhibited some color in the past, this event was excessive. MW-6 was excessively dark in color for the first 25 – 30 gallons of purged water with a peculiar odor somewhat similar to diesel and sulfur. MW-4 was very cloudy for a prolonged pumping period but was purged to parameter stability and clear. NCLF-8 was also more red than it has been in the past 2 years. These are being noted as what appear to be significant changes in purge water appearance. However, these wells were continually monitored for field parameter stabilization and purged until clear water was obtained.

Methods

The groundwater levels were checked in all 9 monitor wells, measured from the top of each well casing and total well depths were used to calculate the required 3 well volumes for purging. Measurements for the previous event, June 2004, and the current August are illustrated in Table 1. Water levels were slightly different than those taken in June.

Throughout the sampling event and purging of all 9 wells, *SDCS, LLC* personnel monitored water quality parameters (pH, conductivity and temperature) and recorded all results in field activity logbooks provided by **Philip Semiconductors.**

The nine wells were purged and sampled using a Grundfos Rediflo 2 stainless steel pump, reel and tubing, which has been dedicated to this project only. Three well casing volumes were purged and water quality parameters were allowed to stabilize prior to collecting groundwater samples for analysis.

All samples were collected in appropriate containers provided by **Assaigai Analytical Laboratories, Inc. (AALI)** of Albuquerque, NM. Samples were labeled, filled and stored in a cooler, on ice and delivered to newly constructed **AALI** laboratory at 4301 Masthead NE, with the required chain of custody.

Laboratory Analysis

The groundwater samples were analyzed for PCE only by USEPA 524.2. All laboratory analytical results, chain of custody forms and QA/QC reports are supplied as ***Attachment 2.***

Data Quality Assessment

SDCS, LLC has reviewed the analytical reports for compliance with data quality objectives, holding times, method requirements, surrogate recoveries, MS & MSD recoveries and their associated RPD. All parameters were performed in strict accordance within holding times and USEPA method requirements and were found to meet all criteria. Trace concentrations of Volatile Organic Compounds (VOC) were detected in the samples, but were well below Maximum Contaminant Levels (MCL) as listed in the tables provided by **Philips Semiconductors**.

Laboratory Results and QA/QC Report

The analytes detected during the August 2004 quarterly groundwater-monitoring event are listed in Table 2 along with MCL's. The VOC of concern detected was Tetrachloroethylene, (PCE). The attached QA/QC report shows all associated QC including method blanks, Laboratory Control Sample (LCS & LCSD), Matrix Spikes (MS & MSD) and all supporting statistical data.

Sangre De Cristo Sciences, LLC appreciates the opportunity to work for you and **Philips Semiconductors** and looks forward to continued business with you. If you should have any questions or comments regarding this report or event, please feel free to contact me at (505) 259-9795.

Respectfully submitted,

Elvin J. Chavez

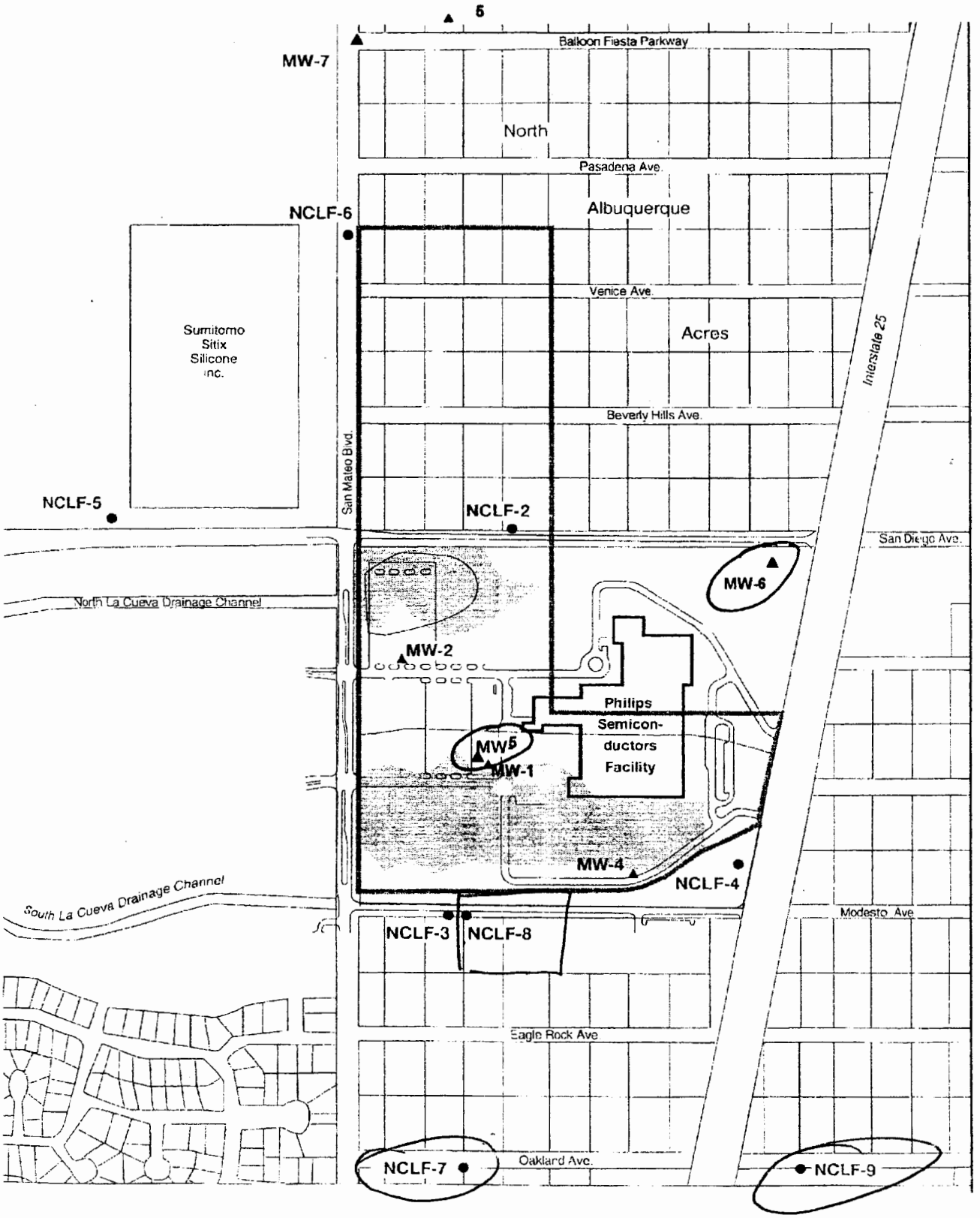
President

Sangre De Cristo Sciences, LLC

Figure 1 – Site Map

12. Figures

12.1 Site Map



Tables 1 & 2

August 2004 Groundwater Depths and Detected Analytes

Table 1. Depth to Groundwater in Philips Semiconductor Monitor Wells for June 2004 and the August 2004 events

Monitor Well #	June 2004 Levels	August 2004 Levels	Difference in Elevation
MW-1	212.37	212.58	-0.21
MW-2	199.77	199.67	0.10
MW-4	228.07	228.06	0.01
MW-5	218.75	218.7	0.05
MW-6	238.87	239.78	0.12
NCLF-2	201.98	201.95	-0.91
NCLF-3	207.78	207.6	0.18
NCLF-4	246.9	246.85	0.05
NCLF-8	208.86	207.9	0.96

Table 2. Detected Analytes in Philips Semiconductor Monitor Wells for August 2004

	MW 5	MW 8 dup	MW 6	NCLF 2	NCLF 4	NCLF 3	NCLF 8	MCL*
Tetrachloroethylene (PCE), ppb	<0.1	<0.1	0.58	5.8	5.0	4.0		**5.0 ug/L (ppb)**

Red items Denote Analytes over MCL

Table 2 cont. Detected Analytes in Philips Semiconductor Monitor Wells for August 2004

	MW 1	MW 2	MW 4	MCL*
Tetrachloroethylene (PCE), ppb	0.9	4.3	3.3	**5.0 ug/L (ppb)**

Red items Denote Analytes over MCL

Attachment 1 - Field Activity Notes

August 2004

). 263.75 4" casing

240.0 2" casing

6.67 2" casing

8/23/04

pH 4.00 = 3.98 Cond True 706 µm/s ~ 700
7.00 = 7.01
10.60 = 10.01

MW-5 D.T.W. 218.7 T.D. 316.4 4" casing
water column 97.3 purge vol. 190

Time	Cond.	Temp	pH	Vol.
1040	653	19.2	6.88	1st
1058	646	18.7	7.34	40
1115	648	19.9	7.38	90
1135	641	19.3	7.40	100
1155	645	18.4	7.42	140
1205	645	18.4	7.43	190

Sampled @ 1208

MW-8 dup same as 4600@ MW-8 is 4600 dup. of MW-5!

Sampled @ 1215

MW-1 D.T.W. 212.58 T.D. 247.52 2" casing
water column 34.94 purge vol 17

Time	Cond	Temp	pH	Vol
1225	445	23.4	6.87	1st
1229	435	22.3	6.89	10
1235	440	22.2	7.01	15
1240	435	22.2	7.10	20

Sampled @ 1242

NCLF-~~EC~~ 3 D.T.W. 207.6 T.D 221.7 4"
water column 14.1 purge vol. 27

Time	Cond	temp	pH	vol.
1310	751	19.7	6.76	1st
1320	744	19.0	6.79	10
1330	723	20.1	6.83	20
1340	724	20.0	6.82	30

Sampled @ 1343

G T.D 266.5 4"

er vol.

pH	vol.	
7.44	1st	red/pinkish color
7.40	25gal	Clear
7.47	50gal	"
7.29	85gal.	"
7.30	110gal.	"

sc

T.D 265.32 4"

e vol.

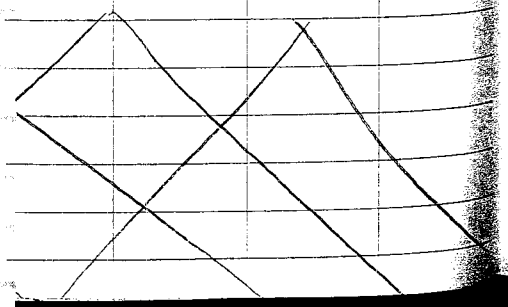
vol.

3t	Clear	
10	"	
5	"	
15	"	
25	"	

T.D. 223.25 4"

20L

15L	clear	
20	"	
30	"	
40	"	



MW-6 D.T.W. 239.78 T.D. 263.75 4"

WATER column 23.97 purge vol. 18

Time	cond.	Temp.	pH	vol.	
1613	462	22.3	7.56	1st	BLACK
1620	462	19.2	7.90	25	"
1625	466	19.0	7.59	35	Brown
1630	467	19.1	7.60	45	clear

Sampled @ 1632

additional readings taken to ensure stability due to excess color of water temp 19.1, cond 470, pH 7.5

MW-4 D.T.W. 228.06 T.D. 240 2"

water column 12 purge vol 6

Time	cond	temp	pH	vol.	
1650	681	22.5	7.35	1st	cloudy
1658	745	20.3	6.58		clear
1710	747	20.5	6.63		"
1720	745	20.5	6.70		"
1728	746	20.6	6.68		"

Sampled @ 1730

Ocean Pump with 10gal/4 cannon & 60gal. D.I.

Equipment Blank Sampled @ 1747

MW-2 D.T.W. 195.67 T.D. 226.67 2"

water column 27 purge vol. 13

Time	cond	temp	pH	vol.
~~1826~~ 1820	620	19.8	7.27	1st
1830	617	19.8	7.26	3
1835	618	19.8	7.26	6
1840	617	19.8	7.26	12
	Sampled @ 1845			

NCLF-8 O.T.W 207.9 T.D. 266.5 4"

water column 58.6 purge vol. 115 gal.

Time	Cond	Temp	pH	vol.	
1350	588	18.8	7.44	1st	red/pinkish color
1400	585	18.4	7.40	25 gal	clear
1410	584	18.4	7.47	50 gal	"
1415	578	18.7	7.29	85 gal.	"
1425	578	18.4	7.30	110 gal.	"

Sampled @ 1430

NCLF-4 D.T.W. 246.85 ~~D~~ D.T.D 265.32 4"

water column 18.47 purge vol. 36

Time	Cond.	Temp	pH	vol.	
1440	1381	23.3	~~7.24~~ 6.62 EC	1st	clear
1447	1425	19.5	~~7.22~~ 6.58 EC	10	"
1459	1438	19.9	6.55	15	"
1506	1439	20.4	6.58	25	"
1515	1438	20.3	6.57	35	"

Sampled @ 1517

NCLF-2 O.T.W. 201.95 T.D. 223.25 4"

~~1530~~ water col. 21.3 purge vol. 42

Time	Cond.	Temp.	pH	vol	
1530	700	23.1	~~6.4~~ 7.20 EC	1st	clear
1540	683	20.0	7.29	20	"
1550	680	20.0	7.26	30	"
1600	681	19.9	7.29	40	"

Sampled @ 1603

MW-6 D.T.

WATER column

Time	cond
1613	462
1620	462
1625	466
1630	467

Sampled @ 1632

add

to r

MW-4 D.T.

water column

Time	cond
1650	681
1658	745
1710	747
1720	745
1728	746

Sampled @ 1730

Ocean Pump wi

Equipment Bl

MW-2 D.T.

water column

Time	cond
~~1820~~ 1820 EC	620
1830	619
1835	618
1840	617

Sample

8/23/04

~~Equip~~ EC Trip BLANK 1900

Attachment 2 – Laboratory Report – QA/QC Report
August 2004

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes

B	*analyte detected in Method Blank*
E	*result is estimated*
H	*analyzed out of hold time*
N	*tentatively identified compound*
S	*subcontracted*
1-9	*see footnote*

PHILIPS SEMICONDUCTORS
attn: **BOB SANDERS**
9201 PAN AMERICAN FRWY NE
ALBUQUERQUE NM 87113

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16** Receipt: **08-24-04**

For William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***MW- #5*** Collected: *08-23-04 12:08:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-01A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.8	127-18-4	Tetrachloroethylene	ND	ug / L	1	0.5		08-26-04	08-26-04

Sample: ***MW- #8*** Collected: *08-23-04 12:15:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-02A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.9	127-18-4	Tetrachloroethylene	ND	ug / L	1	0.5		08-26-04	08-26-04

Sample: ***MW- #1*** Collected: *08-23-04 12:42:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-03A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.10	127-18-4	Tetrachloroethylene	0.90	ug / L	1	0.5		08-26-04	08-26-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16** Receipt: **08-24-04**

Sample: ***NCLF- 3*** Collected: *08-23-04 13:43:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-04A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.11	127-18-4	Tetrachloroethylene	4.0	ug / L	1	0.5		08-26-04	08-26-04

Sample: ***NCLF- 8*** Collected: *08-23-04 14:30:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-05A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.12	127-18-4	Tetrachloroethylene	3.1	ug / L	1	0.5		08-26-04	08-26-04

Sample: ***NCLF- 4*** Collected: *08-23-04 15:17:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-06A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.13	127-18-4	Tetrachloroethylene	5.0	ug / L	1	0.5		08-26-04	08-26-04

Sample: ***NCLF- 2*** Collected: *08-23-04 16:03:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-07A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041075	XG.2004.1521.14	127-18-4	Tetrachloroethylene	5.8	ug / L	1	0.5		08-26-04	08-26-04

Sample: ***MW- #6*** Collected: *08-23-04 16:32:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-08A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041080	XG.2004.1521.21	127-18-4	Tetrachloroethylene	0.58	ug / L	1	0.5		08-27-04	08-27-04

Sample: ***MW- #4*** Collected: *08-23-04 17:30:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-09A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041080	XG.2004.1521.22	127-18-4	Tetrachloroethylene	3.3	ug / L	1	0.5		08-27-04	08-27-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16** Receipt: **08-24-04**

Sample: ***MW- #4*** Collected: *08-23-04 17:30:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date

Sample: ***EQUIP BLANK*** Collected: *08-23-04 17:47:00* By: *EC*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-10A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041080	XG.2004.1521.23	127-18-4	Tetrachloroethylene	ND	ug / L	1	0.5		08-27-04	08-27-04

Sample: ***MW- #2*** Collected: *08-23-04 18:45:00* By: *EC*
Matrix: ***GW***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-11A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041080	XG 2004.1526.24	127-18-4	Tetrachloroethylene	4.3	ug / L	1	0.5		08-27-04	08-27-04

Sample: ***TRIP BLANK*** Collected: *08-23-04 19:00:00* By: *EC*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0408472-12A		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						By: CWJ		
X041080	XG.2004.1526.25	127-18-4	Tetrachloroethylene	ND	ug / L	1	0.5		08-27-04	08-27-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

Chain of Custody Record

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab Job No.: [illegible] Date 23 Aug. 04

Page 1 of 1

Client: Philips Semiconductors
Project Manager / Contact: Bob Sanders
Address:
Telephone No.:
City / State / Zip:
Fax No.:
Project Name / Number: MW's - Aug. 04
Samplers : (signature)
Contract / Purchase Order / Quote:

AALI Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation: Temp.	Preservation: Chemical	No. of Containers	8260 - (PCE only)	524.2 EPA	Remarks
1H	MW-#5	8-23-04	1208	GW	40 ML VIAL	4°C	HCL	2	X		
2H	MW-#3		1245					2	X		
3H	MW-#1		1342					2	X		
4H	NCLF-3		1343					2	X		
5H	NCLF-2		1430					2	X		
6H	NCLF-4		1512					2	X		
7H	NCLF-1		1603					2	X		
8H	MW-#6		1632					2	X		
9H	MW-#4		1730	↓				2	X		
10H	Equip Blank		1745	1/20				2	X		
11H	MW-#2		1845	GW				2	X		
12H	Trip Blank	↓	1900	1/20	↓	↓	↓	2	X		

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature [signature]	8/24/04	Signature [signature]	Signature		Signature
Printed [illegible]	Time 9:22	Printed [illegible]	Printed	Time	Printed
Company		Company [illegible]	Company		Company
Reason		Reason [illegible]	Reason		Reason

Method of Shipment:
Shipment No.:
Special Instructions:

Comments: DMCC

After analysis, samples are to be:
- ❑ Disposed of (additional fee)
- ❑ Stored (30 days max)
- ❑ Stored over 30 days (additional fee)
- ❑ Returned to customer

ASSAIGAI PROJECT FILE

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16**

Explanation of codes

D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***LCS: Lab Control Spike*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						**X041075-002**	
XG.2004.1521.6	127-18-4	Tetrachloroethylene	130	% Recovery	70 - 130	1	NA		08-26-04
X041080		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						**X041080-002**	
XG.2004.1521.20	127-18-4	Tetrachloroethylene	101	% Recovery	70 - 130	1	NA		08-27-04

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						**X041075-001**	
XG.2004.1521.5	127-18-4	Tetrachloroethylene	ND	ug / L		1	0.5		08-26-04
X041080		**EPA 524.2 rev 4 Purgeable VOCs by GC/MS**						**X041080-001**	
XG.2004.1521.19	127-18-4	Tetrachloroethylene	ND	ug / L		1	0.5		08-27-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16**

Explanation of codes

D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***0408472-01A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		524						X041075-004	
XG.2004.1521.8		1,2-Dichlorobenzene-d4 (SS)	103	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.8		Bromofluorobenzene (SS)	97	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-02A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		524						X041075-005	
XG.2004.1521.9		1,2-Dichlorobenzene-d4 (SS)	99	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.9		Bromofluorobenzene (SS)	101	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-03A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		524						X041075-006	
XG.2004.1521.10		1,2-Dichlorobenzene-d4 (SS)	103	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.10		Bromofluorobenzene (SS)	96	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-04A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		524						X041075-007	
XG.2004.1521.11		1,2-Dichlorobenzene-d4 (SS)	96	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.11		Bromofluorobenzene (SS)	95	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-05A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		524						X041075-008	
XG.2004.1521.12		1,2-Dichlorobenzene-d4 (SS)	102	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.12		Bromofluorobenzene (SS)	98	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-06A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		524						X041075-009	
XG.2004.1521.13		1,2-Dichlorobenzene-d4 (SS)	104	% Recovery	76 - 114	1	NA		08-26-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16**

Explanation of codes

D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***0408472-06A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075	**524**							**X041075-009**	
XG 2004.1521.13		Bromofluorobenzene (SS)	101	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-07A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075	**524**							**X041075-010**	
XG.2004.1521.14		1,2-Dichlorobenzene-d4 (SS)	102	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.14		Bromofluorobenzene (SS)	98	% Recovery	75 - 125	1	NA		08-26-04

Sample: ***0408472-08A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041080	**524**							**X041080-003**	
XG.2004.1521.21		1,2-Dichlorobenzene-d4 (SS)	95	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1521.21		Bromofluorobenzene (SS)	96	% Recovery	75 - 125	1	NA		08-27-04

Sample: ***0408472-09A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041080	**524**							**X041080-004**	
XG.2004.1521.22		1,2-Dichlorobenzene-d4 (SS)	97	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1521.22		Bromofluorobenzene (SS)	101	% Recovery	75 - 125	1	NA		08-27-04

Sample: ***0408472-10A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041080	**524**							**X041080-005**	
XG.2004.1521.23		1,2-Dichlorobenzene-d4 (SS)	101	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1521.23		Bromofluorobenzene (SS)	96	% Recovery	75 - 125	1	NA		08-27-04

Sample: ***0408472-11A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041080	**524**							**X041080-006**	
XG.2004.1526.24		1,2-Dichlorobenzene-d4 (SS)	103	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1526.24		Bromofluorobenzene (SS)	93	% Recovery	75 - 125	1	NA		08-27-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **PHILIPS SEMICONDUCTORS**
Project: **MW'S- AUG. 04**
Order: **0408472 PHI16**

Explanation of codes

D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***0408472-12A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041080		**524**						**X041080-007**	
XG.2004.1526.25		1,2-Dichlorobenzene-d4 (SS)	94	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1526.25		Bromofluorobenzene (SS)	92	% Recovery	75 - 125	1	NA		08-27-04

Sample: ***LCS*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		**524**						**X041075-002**	
XG.2004.1521.6		1,2-Dichlorobenzene-d4 (SS)	99	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.6		Bromofluorobenzene (SS)	96	% Recovery	75 - 125	1	NA		08-26-04
X041080		**524**						**X041080-002**	
XG.2004.1521.20		1,2-Dichlorobenzene-d4 (SS)	96	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1521.20		Bromofluorobenzene (SS)	93	% Recovery	75 - 125	1	NA		08-27-04

Sample: ***MB*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X041075		**524**						**X041075-001**	
XG.2004.1521.5		1,2-Dichlorobenzene-d4 (SS)	103	% Recovery	76 - 114	1	NA		08-26-04
XG.2004.1521.5		Bromofluorobenzene (SS)	101	% Recovery	75 - 125	1	NA		08-26-04
X041080		**524**						**X041080-001**	
XG.2004.1521.19		1,2-Dichlorobenzene-d4 (SS)	100	% Recovery	76 - 114	1	NA		08-27-04
XG.2004.1521.19		Bromofluorobenzene (SS)	99	% Recovery	75 - 125	1	NA		08-27-04