

05C2004



Kieling
PHILIPS

Philips Semiconductors

February 28, 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 December 12, 2003 and February 28, 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 January 28-29, 2004. The nine (9) monitoring wells sampled were; MW-1, MW-2, MW4, MW-5, MW-6, NCLF-2, NCLF-3, NCLF-4, and NCLF-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:* Quarterly groundwater monitoring will continue. Next quarter all Philips wells will be sampled for all Appendix IX constituents. This change is in accordance with the Class I Permit Modification issued by NMED to Philips Semiconductors on January 6, 2000. Philips Semiconductors will continue to sample wells quarterly for Tetrachlorethylene.
- *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.
- *D.1(f) - Changes in key project personnel during the reporting period:* The new technical contact is Glen Tsukamoto, Environmental Manager. He can be contacted at; Philips, 1109 McKay DR SJ-55, San Jose, CA 95131-1706; phone 408-474-6129.
- *D.1(g) - Summaries of all changes made in implementation during the reporting period:* No Changes.

Philips Semiconductors, Inc.
9201 Pan American Frwy., NE
Albuquerque, New Mexico 87113
(505)822-7000



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Philips Semiconductors

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,

A handwritten signature in cursive script that reads "Keith Flagler 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

Philips Semiconductors, Inc.
9201 Pan American Frwy., NE
Albuquerque, New Mexico 87113
(505)822-7000



PHILIPS

Philips

January 26, 2004

To Whom It May Concern:

I declare Mr. Glen Tsukamoto, Environmental Manager to be an authorized representative for Philips Semiconductors on environmental permit application, permits and reports related to Philips Semiconductors, Sunnyvale, San Jose, Albuquerque, and San Antonio Sites.

A handwritten signature in cursive script, appearing to read "Keith Flagler".

Keith Flagler
Senior Vice President and General Manager

A handwritten signature in cursive script, appearing to read "Bob Hamilton".

Bob Hamilton
SEHS Manager

A handwritten signature in cursive script, appearing to read "Glen Tsukamoto".

Glen Tsukamoto
Environmental Safety Manager

**PHILIPS SEMICONDUCTORS
JANUARY 2004 QUARTERLY
GROUNDWATER MONITORING REPORT**

February 28, 2004

January 2004 Quarterly Groundwater Monitoring Results

Philips Semiconductors Albuquerque Facility

The following information outlines the events as they took place on January 28-29, 2004. Groundwater sampling was performed on nine (9) monitoring wells; MW-1, MW-2, MW4, MW-5, MW-6, NCLF-2, NCLF-3, NCLF-4, and NCLF-8. All wells were measured for groundwater levels, purged and sampled pursuant to the protocol as listed in the statement of work provided by Philips Semiconductors.

All wells were sampled with a new 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.*

Methods

The groundwater levels were checked in all 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 month of January are illustrated in Table 1.

Throughout the sampling event and purging of all wells, water quality parameters were measured (pH, conductivity and temperature) and recorded in field activity logbooks provided by Philip Semiconductors.

The 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 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 AALI with the required chain of custody.

Laboratory Analysis

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

Data Quality Assessment

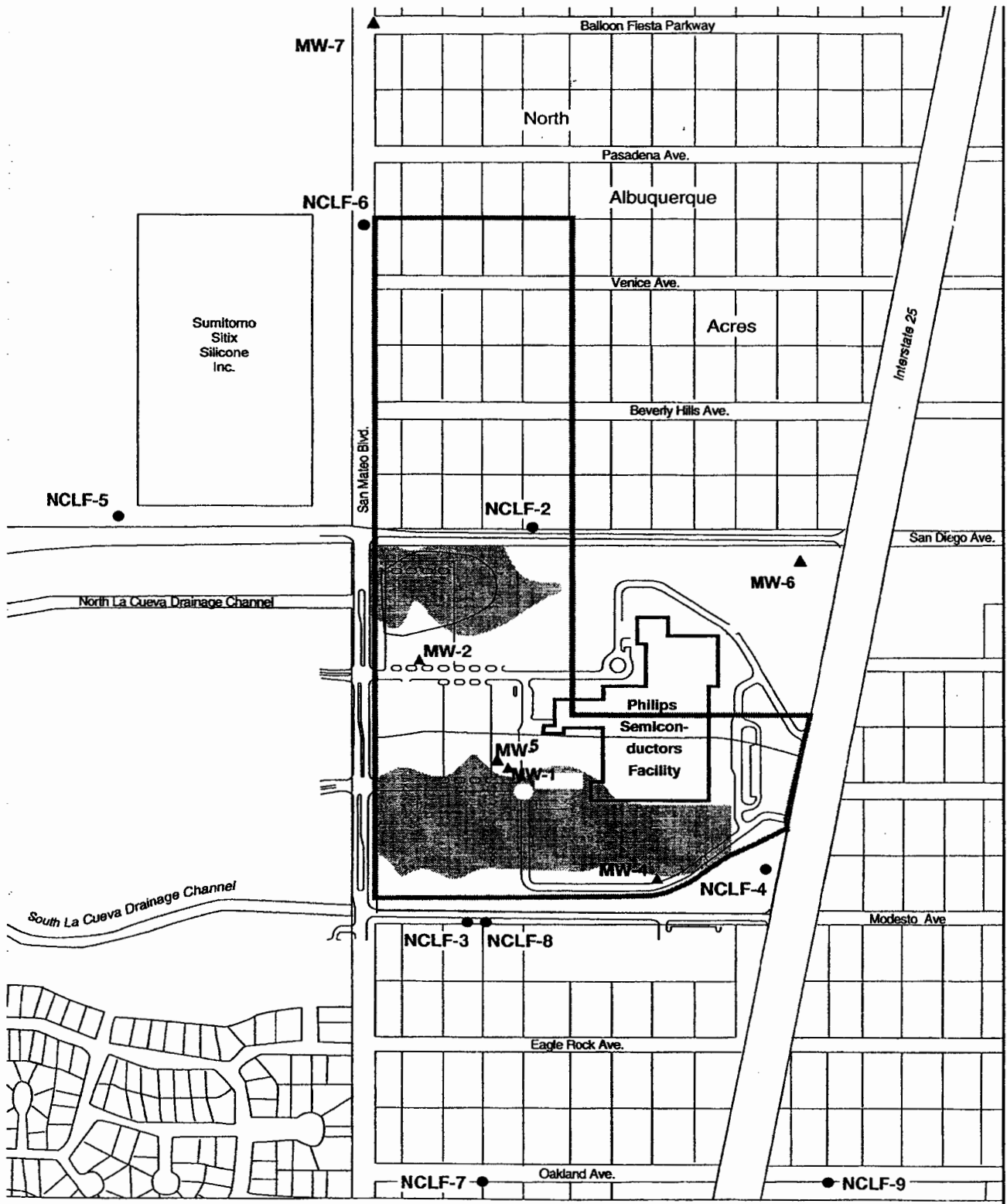
The analytical reports have been reviewed for compliance with data quality objectives, holding times, method requirements, surrogate recoveries, MS & MSD recoveries and their associated RPD. All parameters were performed in strict accordance within holding

times and USEP11A method requirements and were found to meet all criteria. Trace concentrations of PCE were detected in some of the samples, but were below Maximum Contaminant Levels (MCL) as listed in the tables provided by Philips Semiconductors.

Laboratory Results and QA/QC Report

The PCE concentrations detected during the January 2004 groundwater-monitoring event are listed in Table 2 along with MCL's. 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.

Figure 1 – Site Map



Tables 1 & 2

January 2004 Groundwater Depths and Detected Analytes

**Table 1. Depth to Groundwater in Philips Semiconductor Monitor
Wells for October and January 2004 events**

Monitor Well #	January 2004 Levels
MW-1	210.75
MW-2	199.25
MW-4	227.90
MW-5	218.45
MW-6	239.55
NCLF-2	201.85
NCLF-3	207.35
NCLF-4	246.50
NCLF-8	208.55

Table 2. Detected Analytes in Philips

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

	MW 1	MW 2	MW 4	MW 5	MW 6	NCLF 2	NCLF 3	NCLF 4	NCLF 8
PCE ppb	1.1	5.2	4.1	ND	ND	9.0	4.8	3.1	3.0

Red items Denote Analytes over MCL of 5.0 ug/L for Tetrachloroethylene (PCE)

Attachment 1 - Field Activity Notes

MW-#5 DTW - 218.45 TD-316
 Water column - 897.95 (97.95)
 Calc - .653

Gas Purged - 192 (191.38)
 Purge Vol. - Sample Time 12.2

DO	Cond	Temp	Vol.
10:37 2.29 mg/L	32.9	587	17.9 °C 1st
10:50 2.11 mg/L	32.1	592	17.2 2nd
11:05 2.06 mg/L	578		17.4 3rd
11:30 1.99 "	589		17.3 4th
12:00 2.1	583		17.2 5th
12:18 2.09	583		17.2 6th

MW-#1 DTW - 210.75 TD-24

DO	Cond	Temp	Vol.
6.24	337.6	16. °C	1st
			2nd
			3rd
			4th
			5th
			6th

NO. Recovery IN well

Water Column - 31.85
 Calc - .166

Gas Purged - 15.8 APPROX 66
 Sample Time - 14:07

MW-NCLF-7 DTW - 212.5 TD-2350

Time	pH	Cond	Temp	Vol	Comments
1612	7.48	749	18.9	1st	clear
1622	7.52	753	17.7	2nd	NO Solids
1632	7.60	760	17.7	3rd	
1642	7.68	778	17.9	4th	
1652	7.72	780	17.9	5th	
1702	7.73	782	18.1	6th	

Water Column - 22.5
 Calc. - 0.653
 Purge Volume - 44.07

Sampled @ - 17:17

Field Blank @ - 17:38

NCLF-8 DTW - 207.8 TD - 266.5'

Time	pH	Cond	Temp	Vol.	Comments
1742	7.51	675	17.7	1st	clear
1752	7.54	672	17.8	2nd	NO Sediment
1802	7.56	657	18.2	3rd	
1812	7.61	637	18.1	4th	
1822	7.62	642	18.3	5th	
1832	7.61	639	18.2	6th	

Sampled @ 18:38
 Water Column - 58.7'

Calc - 0.653
 Purge Volume - 115 Gals

Time	Ret. To Lab.
1849	EPA 504, 524

Time	Ret. To Lab.
	Brooklyn, NY
	DO, COND, TEM

NCLF-8 DTW-208.55 TD-266.5
 Water col. 57.95
 Calc. .653
 Gls. Purged - 113.52

Time	DO	Cond	Temp	VOL
14:13	1.56	504	15.3	1 ST
14:20	0.66	509	15.9	2 ND
14:23	0.60	516	16.7	3 RD
14:41	0.65	516	16.7	4 TH
14:50	0.67	514	16.7	5 TH
15:10	0.65	512	16.7	6 TH

Sample @ 15:13

NCLF-3 DTW-207.35 TD-221.7

Water col - 14.35
 Calc. - .0653
 Gls. Purged - 28.11
 NO RECOVERY 5 GLS.

Time	DO	Cond	Temp
15:21	2.58	718	13.9

Sampled @ 15:27

Water col. - 18.82
 Calc. .653
 Gls. Purged - 36.8

SP Time	DO	Cond	Temp	VOL
15:51	2.93	1842	15.3	1 ST
16:07	2.09	1914	17.3	2 ND
16:23	1.95	1659	17.2	3 RD
16:36	1.636	1520	17.6	4 TH
16:42	1.62	1490	17.6	5 TH
16:57	1.64	1497	17.6	6 TH

Sample Time, ~~15:07~~ @ 17:07
 29 JAN. 94 SP/JM

NW-#2 The Tubing From The Bladder Pump is Blocking The Access To The Water. WE CANNOT COLLECT A SAMPLE AT THIS TIME. TALKED TO JOE MAUSER AND HE WOULD LIKE FOR US TO SOMEHOW REMOVE TUBING & COLLECT SAMPLE FOR PCR.

Could NOT FIND Monitor well #7, CALLED JOE M. & HE ADVISED US THAT THERE IS NO MW-#7.

29 JAN 04 - SCOTT PRATT / JEFF MEDGARDA

NCLF - 2 DTW - 201.85 TD - 223.25

Water col. - 21.4

Calc - 653

Gas Purged - 41.92

Time	DO	Cond	Temp	Vol
10:57	1.98	618	16.4	1 st
11:12	1.72	624	16.2	2 nd
11:37	1.56	636	16.5	3 rd
11:49	1.67	640	16.6	4 th
12:00	1.38	649	16.8	5 th
12:16	1.41	651	16.7	6 th

Sample Time - 12:21

MW-#6 DTW - 239.55 TD - 263.75

Water col -

Calc -

Gas Purged -

Time	DO	Cond	Temp	Vol
12:27	0.78	399	17.7	1 st
12:31	1.05	405	18.1	2 nd
12:47	0.89	389	17.2	3 rd
13:11	1.32	392	16.9	4 th
13:26	0.92	397	17.1	5 th
13:42	0.98	389	17.0	6 th

Sampled @ 13:51

29 JAN. 04 SP, J

MW - #4 DTW - 227.9 TD

Water col. 17.1

Calc 166

Gas Purged - 6.02

Time	DO	Cond	Temp	Vol
14:22	2.06	711	16.7	1
14:17	1.67	714	16.5	
14:32	1.06	722	17.1	
14:47	1.66	732	17.3	
15:13	1.67	741	17.3	
15:21	1.70	739	17.4	

Sampled @ 15:42

Bought A Trolite Hook + Return TO MW #2. Swapped Tubing + Pulled it out.

MW - #2 DTW - 199.55 TD

Water col - 27.12

Calc - 160

Gas Purged - 13.5

Time	DO	Cond	Temp	Vol
16:10	1.82	554	15.6	1 st
16:17	1.25	535	14.7	2
16:27	.94	549	15.7	3
16:39	1.01	544	16.1	4
16:48	.95	547	16.2	5
17:10	.97	549	16.1	6

Attachment 2 – Laboratory Report – QA/QC Report

Chain of Custody Record

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.: 01015/7 Date 29 JAN. 04

Page 1 of 1

Client DAVID M. FAICO + ASSOC. Project Manager / Contact DAVID FAICO
Address 5383A Kim Rd NE Telephone No. 896-4421
City / State / Zip RIO RANCHO, N.M. Fax No. 896-3696
Project Name / Number Philips Semi. Cond. JAN. 04 Samplers: (signature) Scott Pratt
Contract / Purchase Order / Quote _____

AAI Function Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp. / Method	Quantity	Analysis
7A	MW # 5	1-28-04	1225	GW	40 ML. VIAL	4°C HCL	4	X
8A	MW # 1		1407				4	X
9A	NCLF-8		1513				4	X
10A	NCLF-3		1527				4	X
11A	NCLF-4	1-28-04	1707				4	X
12A	NCLF-2	1-29-04	1221				4	X
13A	MW-#6		1351				4	X
14A	MW #4		1542				4	X
15A	MW-#2		1712				4	X
29 SP JAN 04								

Relinquished by: Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company <u>AAI</u> Reason _____	Date <u>29 JAN 04</u> Time <u>1730</u>	Received by: Signature <u>[Signature]</u> Printed <u>[Printed]</u> Company <u>[Company]</u> Reason <u>[Reason]</u>	Relinquished by: Signature _____ Printed _____ Company _____ Reason _____	Date _____ Time _____	Received by: Signature _____ Printed _____ Company _____ Reason _____
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Method of Shipment _____ Shipment No. _____ Special Instructions: _____	Comments: <u>COOLER Temp. 4°C SP 29 JAN 04</u> <u>MW-#7 DOES NOT EXIST</u> <u>MW-#2 Tubing Blocking Access TO WATER TABLE - 1600 GOT Tubing OUT</u>	After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer
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CARRIER



ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgwood, 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

DAVID M. FALCO & ASSOCIATES

attn: DAVID FALCO

5383A KIM RD NE

RIO RANCHO

NM 87124

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: DAVID M. FALCO & ASSOCIATES

Project: PHILIPS SEMI COND- JAN. 04

Order: 0401547 FAL01 Receipt: 01-30-04

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

Sample: MW- #5

Collected: 01-28-04 12:25:00 By: SP,JM

Matrix: GW

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401547-01A			EPA 524.2 rev 4 Purgeable VOCs by GC/MS					By: JAA		
X0479	XG.2004.212.7	127-18-4	Tetrachloroethylene	ND	ug / L	1	1	1	02-04-04	02-04-04

Sample: MW- #1

Collected: 01-28-04 14:07:00 By: SP,JM

Matrix: GW

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401547-02A			EPA 524.2 rev 4 Purgeable VOCs by GC/MS					By: JAA		
X0479	XG.2004.212.8	127-18-4	Tetrachloroethylene	1.1	ug / L	1	1		02-04-04	02-04-04

Sample: NCLF-8

Collected: 01-28-04 15:13:00 By: SP,JM

Matrix: GW

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401547-03A			EPA 524.2 rev 4 Purgeable VOCs by GC/MS					By: JAA		
X0479	XG.2004.212.9	127-18-4	Tetrachloroethylene	3.0	ug / L	1	1	1	02-04-04	02-04-04



Assagai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **DAVID M. FALCO & ASSOCIATES**
 Project: **PHILIPS SEMI COND- JAN. 04**
 Order: **0401547 FAL01** Receipt: **01-30-04**

Sample: **NCLF-3** Collected: **01-28-04 15:27:00** By: **SP,JM**
 Matrix: **GW**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
EPA 524.2 rev 4 Purgeable VOCs by GC/MS By: JAA										
X0479	XG.2004.212.10	127-18-4	Tetrachloroethylene	4.8	ug / L	1	1		02-04-04	02-04-04

Sample: **NCLF-4** Collected: **01-28-04 17:07:00** By: **SP,JM**
 Matrix: **GW**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
EPA 524.2 rev 4 Purgeable VOCs by GC/MS By: JAA										
X0479	XG.2004.212.11	127-18-4	Tetrachloroethylene	3.1	ug / L	1	1		02-04-04	02-04-04

Sample: **NCLF-2** Collected: **01-29-04 12:21:00** By: **SP,JM**
 Matrix: **GW**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
EPA 524.2 rev 4 Purgeable VOCs by GC/MS By: JAA										
X0479	XG.2004.212.22	127-18-4	Tetrachloroethylene	9.0	ug / L	5	1		02-04-04	02-05-04

Sample: **MW- #6** Collected: **01-29-04 13:51:00** By: **SP,JM**
 Matrix: **GW**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
EPA 524.2 rev 4 Purgeable VOCs by GC/MS By: JAA										
X0479	XG.2004.212.13	127-18-4	Tetrachloroethylene	ND	ug / L	1	1		02-04-04	02-04-04

Sample: **MW- #4** Collected: **01-29-04 15:42:00** By: **SP,JM**
 Matrix: **GW**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
EPA 524.2 rev 4 Purgeable VOCs by GC/MS By: JAA										
X0479	XG.2004.212.14	127-18-4	Tetrachloroethylene	4.1	ug / L	1	1		02-04-04	02-04-04

Assaigai Analytical Laboratories, Inc.
Certificate of Analysis

Client: **DAVID M. FALCO & ASSOCIATES**
Project: **PHILIPS SEMI COND- JAN. 04**
Order: **0401547 FAL01** Receipt: **01-30-04**

Sample: **MW- #2** Collected: **01-29-04 17:12:00** By: **SP, JM**
Matrix: **GW**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401547-09A		EPA 524.2 rev 4 Purgeable VOCs by GC/MS					By: JAA			
X0479	XG.2004.212.15	127-18-4	Tetrachloroethylene	5.2	ug / L	1	1		02-04-04	02-04-04

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 footnotes will appear below.

1 Sample pH at the time of analysis was greater than 2, exceeding QA/QC criteria.

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **DAVID M. FALCO & ASSOCIATES**
 Project: **PHILIPS SEMI COND- JAN. 04**
 Order: **0401547 FAL01**

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	Run Code	Run Date
X0479 EPA 524.2 rev 4 Purgeable VOCs by GC/MS X0479-002									
XG.2004.212.6	127-18-4	Tetrachloroethylene	118	% Recovery	70 - 130	1	NA		02-04-04
X0479 EPA 524.2 rev 4 Purgeable VOCs by GC/MS X0479-013									
XG.2004.212.21	127-18-4	Tetrachloroethylene	126	% Recovery	70 - 130	1	NA		02-05-04

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

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479 EPA 524.2 rev 4 Purgeable VOCs by GC/MS X0479-001									
XG.2004.212.5	127-18-4	Tetrachloroethylene	ND	ug / L		1	1		02-04-04
X0479 EPA 524.2 rev 4 Purgeable VOCs by GC/MS X0479-012									
XG.2004.212.20	127-18-4	Tetrachloroethylene	ND	ug / L		1	1		02-05-04

Assaigai Analytical Laboratories, Inc.
QC Surrogate Summary

Client: **DAVID M. FALCO & ASSOCIATES**
 Project: **PHILIPS SEMI COND- JAN. 04**
 Order: **0401547 FAL01**

Explanation of codes	
D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

Sample: **0401547-01A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-003					
XG.2004.212.7		1,2-Dichlorobenzene-d4 (SS)	105	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.7		Bromofluorobenzene (SS)	104	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-02A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-004					
XG.2004.212.8		1,2-Dichlorobenzene-d4 (SS)	105	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.8		Bromofluorobenzene (SS)	104	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-03A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-005					
XG.2004.212.9		1,2-Dichlorobenzene-d4 (SS)	107	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.9		Bromofluorobenzene (SS)	101	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-04A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-006					
XG.2004.212.10		1,2-Dichlorobenzene-d4 (SS)	105	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.10		Bromofluorobenzene (SS)	100	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-05A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-007					
XG.2004.212.11		1,2-Dichlorobenzene-d4 (SS)	112	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.11		Bromofluorobenzene (SS)	108	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-06A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-014					
XG.2004.212.22		1,2-Dichlorobenzene-d4 (SS)	111	% Recovery	76 - 114	5	NA		02-05-04

Assagai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **DAVID M. FALCO & ASSOCIATES**
 Project: **PHILIPS SEMI COND- JAN. 04**
 Order: **0401547 FAL01**

Explanation of codes

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

Sample: **0401547-06A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479	524							X0479-014	
XG.2004.212.22		Bromofluorobenzene (SS)	107	% Recovery	75 - 125	5	NA		02-05-04

Sample: **0401547-07A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479	524							X0479-009	
XG.2004.212.13		1,2-Dichlorobenzene-d4 (SS)	108	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.13		Bromofluorobenzene (SS)	110	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-08A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479	524							X0479-010	
XG.2004.212.14		Bromofluorobenzene (SS)	114	% Recovery	75 - 125	1	NA		02-04-04

Sample: **0401547-09A** Matrix: **WATER**

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479	524							X0479-011	
XG.2004.212.15		1,2-Dichlorobenzene-d4 (SS)	113	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.15		Bromofluorobenzene (SS)	110	% Recovery	75 - 125	1	NA		02-04-04

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

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479	524							X0479-002	
XG.2004.212.6		1,2-Dichlorobenzene-d4 (SS)	104	% Recovery	76 - 114	1	NA		02-04-04
XG.2004.212.6		Bromofluorobenzene (SS)	100	% Recovery	75 - 125	1	NA		02-04-04
X0479	524							X0479-013	
XG.2004.212.21		Bromofluorobenzene (SS)	115	% Recovery	75 - 125	1	NA		02-05-04

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

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479	524							X0479-001	
XG.2004.212.5		1,2-Dichlorobenzene-d4 (SS)	106	% Recovery	76 - 114	1	NA		02-04-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **DAVID M. FALCO & ASSOCIATES**
 Project: **PHILIPS SEMI COND- JAN. 04**
 Order: **0401547 FAL01**

Explanation of codes	
D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

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

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Run Code	Run Date
X0479		524		X0479-001					
XG.2004.212.5		Bromofluorobenzene (SS)	106	% Recovery	75 - 125	1	NA		02-04-04
X0479		524		X0479-012					
XG.2004.212.20		1,2-Dichlorobenzene-d4 (SS)	106	% Recovery	76 - 114	1	NA		02-05-04
XG.2004.212.20		Bromofluorobenzene (SS)	105	% Recovery	75 - 125	1	NA		02-05-04