

Wickham, Jerry, Env. Health

From: Nicholas Roy [nroy@ninyoandmoore.com]
Sent: Wednesday, January 19, 2011 11:42 AM
To: Wickham, Jerry, Env. Health
Subject: RE: Holland Park Hayward, Soil Lab Analytical Results
Attachments: Pacheco Brothers - Dirt Fill.pdf

Jerry,

The contractor indicated the soil is coming from a construction company stockpile yard in Newark (37521 Willow Ave, DryCo Construction Inc) and the source of that soil is from various school sites in the Fremont and New Haven Unified School Districts. They provided a letter from DryCo that I attached to this email. Please let me know if this will be suitable.

Thanks

Senior Staff Environmental Scientist

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 633-5640 (x5230)
nroy@ninyoandmoore.com

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-----Original Message-----

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]
Sent: Wednesday, January 19, 2011 8:57 AM
To: Nicholas Roy
Cc: sims@haywardrec.org; Larry Lepore
Subject: RE: Holland Park Hayward, Soil Lab Analytical Results

Nicholas,

What is the fill source (type of land use) and can you document the fill is from a site that would not be considered "undesirable," as described in the DTSC "Clean Imported Fill Guidance?"

Regards,

Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502-6577

phone: 510-567-6791

jerry.wickham@acgov.org

From: Nicholas Roy [<mailto:nroy@ninyoandmoore.com>]
Sent: Wednesday, January 19, 2011 8:33 AM
To: Wickham, Jerry, Env. Health
Cc: sims@haywardrec.org; Larry Lepore
Subject: Holland Park Hayward, Soil Lab Analytical Results

Hello Jerry,

Kris is out of the office and I'm handling this project at the moment. I've attached the laboratory analytical results for the soil HARD would like to import for the top 1' backfill. I collected two samples (1 sample/250 cubic yards) per the DTSC guidelines. The results are all below RWQCB Table A ESLs. Do we have authorization to

use this material for the backfill? Please call me with any questions you may have. My cell is 510-455-1087 if I'm not in the office.

Thanks

Nicholas S. Roy
Senior Staff Environmental Scientist

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 633-5640 (x5230)
nroy@ninyoandmoore.com

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SEAL COATING • STRIPING • SAW-CUTTING • FENCING & MISC. IRON

January 19, 2011

Pacheco Brothers Landscape
795 Sandoval Way
Hayward, CA 94545

Attention: Gary Pacheco

Reference: Dirt Fill

Gary,

The dirt that was tested at our Willow Yard is from various jobs, mainly the Fremont, Newark and Union City areas. Of the work listed above most of the dirt fill was generated from work done at Fremont & New Haven School District projects.

Thank you and should you have any questions or require additional information, please feel free to contact me.

Sincerely,

DRYCO CONSTRUCTION, INC.

A handwritten signature in blue ink, appearing to read 'Dave McLeod', is written over the typed name.

Dave McLeod
Operations Manager

Office - 510.438.6500
Cell - 510.773.7130
Fax - 510.438.6510

January 18, 2011



Nick Roy
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
TEL: (813) 215-3878
FAX: (510) 633-5646

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 115803

RE: Holland Park, 401314006

Attention: Nick Roy

Enclosed are the results for sample(s) received on January 14, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Ninyo & Moore
Project: Holland Park, 401314006
Lab Order: 115803

CASE NARRATIVE

Analytical Comments for EPA 8015B(M)

Samples 115803-001A and 115803-002A, dilution was necessary due to sample matrix.

Samples 115803-001A, 115803-001AMS, 115803-001AMSD and 115803-002A, surrogate recovery was diluted out.

Sample 115803-001AMSD, Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Sample 115803-001AMSD, RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8081A

Sample 115739-057AMSD, Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Sample 115739-057AMSD, RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115803
Project: Holland Park, 401314006
Lab ID: 115803-001A

Client Sample ID: Import 1
Collection Date: 1/12/2011 2:00:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP10_110117F	QC Batch:	69750	PrepDate:	1/17/2011	Analyst:	JSD
Antimony	ND	2.0	mg/Kg	1	1/17/2011 05:48 PM		
Arsenic	5.0	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Barium	150	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Beryllium	ND	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Cadmium	ND	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Chromium	51	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Cobalt	9.5	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Copper	34	2.0	mg/Kg	1	1/17/2011 05:48 PM		
Lead	15	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Molybdenum	ND	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Nickel	54	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Selenium	ND	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Silver	ND	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Thallium	ND	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Vanadium	34	1.0	mg/Kg	1	1/17/2011 05:48 PM		
Zinc	48	1.0	mg/Kg	1	1/17/2011 05:48 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_110118C	QC Batch:	69825	PrepDate:	1/18/2011	Analyst:	CBR
DRO	59	40	mg/Kg	20	1/18/2011 02:07 PM		
ORO	240	40	mg/Kg	20	1/18/2011 02:07 PM		
Surr: p-Terphenyl	0	30-128	SDO %REC	20	1/18/2011 02:07 PM		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110118A	QC Batch:	69797	PrepDate:	1/17/2011	Analyst:	HL
4,4'-DDD	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
4,4'-DDE	18	2.0	µg/Kg	1	1/18/2011 01:54 PM		
4,4'-DDT	12	2.0	µg/Kg	1	1/18/2011 01:54 PM		
Aldrin	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
alpha-BHC	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
alpha-Chlordane	2.3	1.0	µg/Kg	1	1/18/2011 01:54 PM		
beta-BHC	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
Chlordane	34	8.5	µg/Kg	1	1/18/2011 01:54 PM		
delta-BHC	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115803
Project: Holland Park, 401314006
Lab ID: 115803-001A

Client Sample ID: Import 1
Collection Date: 1/12/2011 2:00:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110118A	QC Batch:	69797	PrepDate:	1/17/2011	Analyst:	HL
Dieldrin	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
Endosulfan I	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
Endosulfan II	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
Endosulfan sulfate	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
Endrin	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
Endrin aldehyde	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
Endrin ketone	ND	2.0	µg/Kg	1	1/18/2011 01:54 PM		
gamma-BHC	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
gamma-Chlordane	3.0	1.0	µg/Kg	1	1/18/2011 01:54 PM		
Heptachlor	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
Heptachlor epoxide	ND	1.0	µg/Kg	1	1/18/2011 01:54 PM		
Methoxychlor	ND	5.0	µg/Kg	1	1/18/2011 01:54 PM		
Toxaphene	ND	50	µg/Kg	1	1/18/2011 01:54 PM		
Surr: Decachlorobiphenyl	77.2	21-132	%REC	1	1/18/2011 01:54 PM		
Surr: Tetrachloro-m-xylene	66.3	22-110	%REC	1	1/18/2011 01:54 PM		

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID:	GC5_110117A	QC Batch:	69797	PrepDate:	1/17/2011	Analyst:	HL
Aroclor 1016	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1221	ND	33	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1232	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1242	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1248	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1254	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1260	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1262	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Aroclor 1268	ND	16	µg/Kg	1	1/18/2011 06:19 AM		
Surr: Decachlorobiphenyl	59.6	36-124	%REC	1	1/18/2011 06:19 AM		
Surr: Tetrachloro-m-xylene	80.1	35-141	%REC	1	1/18/2011 06:19 AM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA1_110117B	QC Batch:	69756	PrepDate:	1/14/2011	Analyst:	VV
Mercury	ND	0.10	mg/Kg	1	1/17/2011 03:24 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 18-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115803
Project: Holland Park, 401314006
Lab ID: 115803-002A

Client Sample ID: Import 2
Collection Date: 1/12/2011 2:05:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP10_110117F	QC Batch:	69750	PrepDate:	1/17/2011	Analyst:	JSD
Antimony	ND	2.0	mg/Kg	1	1/17/2011 05:53 PM		
Arsenic	4.8	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Barium	130	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Beryllium	ND	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Cadmium	ND	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Chromium	34	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Cobalt	8.7	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Copper	31	2.0	mg/Kg	1	1/17/2011 05:53 PM		
Lead	13	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Molybdenum	ND	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Nickel	43	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Selenium	ND	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Silver	ND	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Thallium	ND	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Vanadium	33	1.0	mg/Kg	1	1/17/2011 05:53 PM		
Zinc	46	1.0	mg/Kg	1	1/17/2011 05:53 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_110118C	QC Batch:	69825	PrepDate:	1/18/2011	Analyst:	CBR
DRO	59	40	mg/Kg	20	1/18/2011 02:17 PM		
ORO	270	40	mg/Kg	20	1/18/2011 02:17 PM		
Surr: p-Terphenyl	0	30-128	SDO %REC	20	1/18/2011 02:17 PM		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110118A	QC Batch:	69797	PrepDate:	1/17/2011	Analyst:	HL
4,4'-DDD	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
4,4'-DDE	18	2.0	µg/Kg	1	1/18/2011 02:22 PM		
4,4'-DDT	13	2.0	µg/Kg	1	1/18/2011 02:22 PM		
Aldrin	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
alpha-BHC	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
alpha-Chlordane	2.2	1.0	µg/Kg	1	1/18/2011 02:22 PM		
beta-BHC	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
Chlordane	31	8.5	µg/Kg	1	1/18/2011 02:22 PM		
delta-BHC	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115803
Project: Holland Park, 401314006
Lab ID: 115803-002A

Client Sample ID: Import 2
Collection Date: 1/12/2011 2:05:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110118A	QC Batch:	69797	PrepDate:	1/17/2011	Analyst:	HL
Dieldrin	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
Endosulfan I	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
Endosulfan II	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
Endosulfan sulfate	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
Endrin	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
Endrin aldehyde	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
Endrin ketone	ND	2.0	µg/Kg	1	1/18/2011 02:22 PM		
gamma-BHC	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
gamma-Chlordane	2.7	1.0	µg/Kg	1	1/18/2011 02:22 PM		
Heptachlor	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
Heptachlor epoxide	ND	1.0	µg/Kg	1	1/18/2011 02:22 PM		
Methoxychlor	ND	5.0	µg/Kg	1	1/18/2011 02:22 PM		
Toxaphene	ND	50	µg/Kg	1	1/18/2011 02:22 PM		
Surr: Decachlorobiphenyl	70.5	21-132	%REC	1	1/18/2011 02:22 PM		
Surr: Tetrachloro-m-xylene	55.7	22-110	%REC	1	1/18/2011 02:22 PM		

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID:	GC5_110117A	QC Batch:	69797	PrepDate:	1/17/2011	Analyst:	HL
Aroclor 1016	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1221	ND	33	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1232	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1242	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1248	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1254	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1260	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1262	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Aroclor 1268	ND	16	µg/Kg	1	1/18/2011 06:49 AM		
Surr: Decachlorobiphenyl	59.0	36-124	%REC	1	1/18/2011 06:49 AM		
Surr: Tetrachloro-m-xylene	82.7	35-141	%REC	1	1/18/2011 06:49 AM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA1_110117B	QC Batch:	69756	PrepDate:	1/14/2011	Analyst:	VV
Mercury	ND	0.10	mg/Kg	1	1/17/2011 03:26 PM		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-69750	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2011	RunNo: 128895						
Client ID: PBS	Batch ID: 69750	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/17/2011	SeqNo: 2089150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

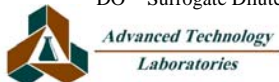
Antimony	1.107	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.022	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	0.479	2.0									
Lead	0.130	1.0									
Molybdenum	0.100	1.0									
Nickel	0.064	1.0									
Selenium	ND	1.0									
Silver	0.064	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.355	1.0									

Sample ID: LCS-69750	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2011	RunNo: 128895						
Client ID: LCSS	Batch ID: 69750	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/17/2011	SeqNo: 2089151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	44.829	2.0	50.00	1.107	87.4	80	120				
Arsenic	44.767	1.0	50.00	0	89.5	80	120				
Barium	47.598	1.0	50.00	0	95.2	80	120				
Beryllium	47.114	1.0	50.00	0	94.2	80	120				
Cadmium	44.576	1.0	50.00	0.02159	89.1	80	120				
Chromium	44.563	1.0	50.00	0	89.1	80	120				
Cobalt	46.188	1.0	50.00	0	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

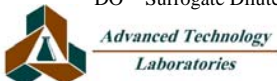
TestCode: 6010_S

Sample ID: LCS-69750	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2011	RunNo: 128895						
Client ID: LCSS	Batch ID: 69750	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/17/2011	SeqNo: 2089151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	46.655	2.0	50.00	0.4793	92.4	80	120				
Lead	46.759	1.0	50.00	0.1304	93.3	80	120				
Molybdenum	49.012	1.0	50.00	0.09997	97.8	80	120				
Nickel	45.334	1.0	50.00	0.06395	90.5	80	120				
Selenium	43.002	1.0	50.00	0	86.0	80	120				
Silver	46.321	1.0	50.00	0.06430	92.5	80	120				
Thallium	44.176	1.0	50.00	0	88.4	80	120				
Vanadium	47.673	1.0	50.00	0	95.3	80	120				
Zinc	44.338	1.0	50.00	0.3546	88.0	80	120				

Sample ID: 115792-016A-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2011	RunNo: 128895						
Client ID: ZZZZZZ	Batch ID: 69750	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/17/2011	SeqNo: 2089156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	76.841	2.0	125.0	0	61.5	32	105				
Arsenic	94.414	1.0	125.0	4.502	71.9	49	106				
Barium	191.768	1.0	125.0	93.94	78.3	31	133				
Beryllium	102.475	1.0	125.0	0.2248	81.8	56	106				
Cadmium	91.065	1.0	125.0	0.02447	72.8	51	103				
Chromium	148.953	1.0	125.0	49.57	79.5	45	114				
Cobalt	106.137	1.0	125.0	12.37	75.0	52	106				
Copper	130.385	2.0	125.0	29.30	80.9	54	125				
Lead	99.260	1.0	125.0	8.880	72.3	34	126				
Molybdenum	95.651	1.0	125.0	0	76.5	54	106				
Nickel	190.071	1.0	125.0	97.38	74.2	45	111				
Selenium	89.322	1.0	125.0	0	71.5	47	104				
Silver	99.799	1.0	125.0	0	79.8	56	112				
Thallium	89.025	1.0	125.0	0	71.2	46	101				
Vanadium	130.295	1.0	125.0	30.06	80.2	54	114				
Zinc	136.195	1.0	125.0	49.86	69.1	28	125				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 115792-016A-MSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 1/17/2011		RunNo: 128895	
Client ID: ZZZZZZ		Batch ID: 69750		TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/17/2011		SeqNo: 2089157			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	77.513	2.0	125.0	0	62.0	32	105	76.84	0.871	20	
Arsenic	94.745	1.0	125.0	4.502	72.2	49	106	94.41	0.350	20	
Barium	192.664	1.0	125.0	93.94	79.0	31	133	191.8	0.466	20	
Beryllium	100.669	1.0	125.0	0.2248	80.4	56	106	102.5	1.78	20	
Cadmium	91.327	1.0	125.0	0.02447	73.0	51	103	91.07	0.287	20	
Chromium	149.809	1.0	125.0	49.57	80.2	45	114	149.0	0.573	20	
Cobalt	107.076	1.0	125.0	12.37	75.8	52	106	106.1	0.880	20	
Copper	132.366	2.0	125.0	29.30	82.5	54	125	130.4	1.51	20	
Lead	100.651	1.0	125.0	8.880	73.4	34	126	99.26	1.39	20	
Molybdenum	95.605	1.0	125.0	0	76.5	54	106	95.65	0.0476	20	
Nickel	194.736	1.0	125.0	97.38	77.9	45	111	190.1	2.42	20	
Selenium	91.535	1.0	125.0	0	73.2	47	104	89.32	2.45	20	
Silver	99.968	1.0	125.0	0	80.0	56	112	99.80	0.169	20	
Thallium	89.880	1.0	125.0	0	71.9	46	101	89.03	0.956	20	
Vanadium	131.639	1.0	125.0	30.06	81.3	54	114	130.3	1.03	20	
Zinc	139.939	1.0	125.0	49.86	72.1	28	125	136.2	2.71	20	

Qualifiers:

- | | | |
|---|--|--|
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-69756	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/14/2011	RunNo: 128873						
Client ID: PBS	Batch ID: 69756	TestNo: EPA 7471A		Analysis Date: 1/17/2011	SeqNo: 2088770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

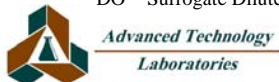
Sample ID: LCS-69756	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/14/2011	RunNo: 128873						
Client ID: LCSS	Batch ID: 69756	TestNo: EPA 7471A		Analysis Date: 1/17/2011	SeqNo: 2088771						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.800	0.10	0.8300	0	96.4	80	120				

Sample ID: 115792-019A-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/14/2011	RunNo: 128873						
Client ID: ZZZZZ	Batch ID: 69756	TestNo: EPA 7471A		Analysis Date: 1/17/2011	SeqNo: 2088772						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.930	0.10	0.8300	0.05716	105	70	130				

Sample ID: 115792-019A-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/14/2011	RunNo: 128873						
Client ID: ZZZZZ	Batch ID: 69756	TestNo: EPA 7471A		Analysis Date: 1/17/2011	SeqNo: 2088773						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.926	0.10	0.8300	0.05716	105	70	130	0.9301	0.435	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: MB-69825	SampType: MBLK	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 1/18/2011	RunNo: 128926						
Client ID: PBS	Batch ID: 69825	TestNo: EPA 8015B(M EPA 3550B		Analysis Date: 1/18/2011	SeqNo: 2089711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	2.627		2.670		98.4	30	128				

Sample ID: LCS-69825	SampType: LCS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 1/18/2011	RunNo: 128926						
Client ID: LCSS	Batch ID: 69825	TestNo: EPA 8015B(M EPA 3550B		Analysis Date: 1/18/2011	SeqNo: 2089712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	15.019	1.0	33.00	0	45.5	35	118				
Surr: p-Terphenyl	2.758		2.670		103	30	128				

Sample ID: 115803-001AMS	SampType: MS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 1/18/2011	RunNo: 128926						
Client ID: Import 1	Batch ID: 69825	TestNo: EPA 8015B(M EPA 3550B		Analysis Date: 1/18/2011	SeqNo: 2089715						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

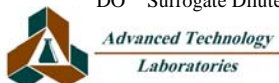
DRO	97.787	40	33.00	58.79	118	25	129				
Surr: p-Terphenyl	0		2.670		0	30	128				SDO

Sample ID: 115803-001AMSD	SampType: MSD	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 1/18/2011	RunNo: 128926						
Client ID: Import 1	Batch ID: 69825	TestNo: EPA 8015B(M EPA 3550B		Analysis Date: 1/18/2011	SeqNo: 2089716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	66.640	40	33.00	58.79	23.8	25	129	97.79	37.9	20	SR
Surr: p-Terphenyl	0		2.670		0	30	128		0	0	SDO

Qualifiers:

- | | | |
|---|--|--|
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

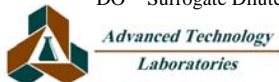
TestCode: 8081_S

Sample ID: MB-69797	SampType: MBLK	TestCode: 8081_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128925						
Client ID: PBS	Batch ID: 69797	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089699						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	2.0									
4,4'-DDE	ND	2.0									
4,4'-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	5.0									
Toxaphene	ND	50									
Surr: Tetrachloro-m-xylene	13.536		16.67		81.2	22	110				
Surr: Decachlorobiphenyl	11.072		16.67		66.4	21	132				

Sample ID: LCS-69797	SampType: LCS	TestCode: 8081_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128925						
Client ID: LCSS	Batch ID: 69797	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	15.939	1.0	16.67	0	95.6	53	107				

Qualifiers:

- | | | |
|---|--|--|
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Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

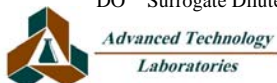
Sample ID: LCS-69797		SampType: LCS		TestCode: 8081_S		Units: µg/Kg		Prep Date: 1/17/2011		RunNo: 128925		
Client ID: LCSS		Batch ID: 69797		TestNo: EPA 8081A		EPA 3550B		Analysis Date: 1/18/2011		SeqNo: 2089700		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Dieldrin	16.486	2.0	16.67	0	98.9	53	107					
Endrin	16.784	2.0	16.67	0	101	51	110					
gamma-BHC	16.316	1.0	16.67	0	97.9	52	107					
Heptachlor	16.871	1.0	16.67	0	101	50	108					
Surr: Tetrachloro-m-xylene	14.870		16.67		89.2	22	110					
Surr: Decachlorobiphenyl	15.018		16.67		90.1	21	132					

Sample ID: 115739-057AMS		SampType: MS		TestCode: 8081_S		Units: µg/Kg		Prep Date: 1/17/2011		RunNo: 128925		
Client ID: ZZZZZZ		Batch ID: 69797		TestNo: EPA 8081A		EPA 3550B		Analysis Date: 1/18/2011		SeqNo: 2089701		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
4,4'-DDT	54.211	2.0	16.67	44.83	56.3	33	130					
Aldrin	14.274	1.0	16.67	0	85.6	39	121					
Dieldrin	20.275	2.0	16.67	0	122	29	140					
Endrin	20.165	2.0	16.67	0	121	36	130					
gamma-BHC	14.836	1.0	16.67	0	89.0	38	122					
Heptachlor	18.326	1.0	16.67	1.834	98.9	36	123					
Surr: Tetrachloro-m-xylene	12.849		16.67		77.1	22	110					
Surr: Decachlorobiphenyl	15.620		16.67		93.7	21	132					

Sample ID: 115739-057AMSD		SampType: MSD		TestCode: 8081_S		Units: µg/Kg		Prep Date: 1/17/2011		RunNo: 128925		
Client ID: ZZZZZZ		Batch ID: 69797		TestNo: EPA 8081A		EPA 3550B		Analysis Date: 1/18/2011		SeqNo: 2089702		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aldrin	15.673	1.0	16.67	0	94.0	39	121	14.27	9.35	20		
Dieldrin	22.090	2.0	16.67	0	133	29	140	20.28	8.57	20		
Endrin	26.347	2.0	16.67	0	158	36	130	20.16	26.6	20	SR	
gamma-BHC	17.485	1.0	16.67	0	105	38	122	14.84	16.4	20		
Heptachlor	22.772	1.0	16.67	1.834	126	36	123	18.33	21.6	20	SR	
Surr: Tetrachloro-m-xylene	12.357		16.67		74.1	22	110		0	0		

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

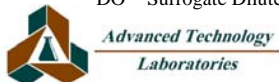
Sample ID: 115739-057AMSD	SampType: MSD	TestCode: 8081_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128925						
Client ID: ZZZZZZ	Batch ID: 69797	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	16.105		16.67		96.6	21	132		0	0	

Sample ID: 115739-057AMS	SampType: MS	TestCode: 8081_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128925						
Client ID: ZZZZZZ	Batch ID: 69797	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	12.167		16.67		73.0	22	110				
Surr: Decachlorobiphenyl	14.085		16.67		84.5	21	132				

Sample ID: 115739-057AMSD	SampType: MSD	TestCode: 8081_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128925						
Client ID: ZZZZZZ	Batch ID: 69797	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDT	54.180	20	16.67	32.39	131	33	130	34.98	43.1	20	SR
Surr: Tetrachloro-m-xylene	13.108		16.67		78.6	22	110		0	0	
Surr: Decachlorobiphenyl	14.802		16.67		88.8	21	132		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

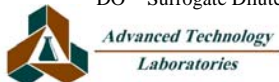
Sample ID: MB-69797	SampType: MBLK	TestCode: 8082_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128891						
Client ID: PBS	Batch ID: 69797	TestNo: EPA 8082	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Aroclor 1262	ND	16									
Aroclor 1268	ND	16									
Surr: Decachlorobiphenyl	13.973		16.67		83.8	36	124				
Surr: Tetrachloro-m-xylene	15.714		16.67		94.3	35	141				

Sample ID: LCSA-69797	SampType: LCS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128891						
Client ID: LCSS	Batch ID: 69797	TestNo: EPA 8082	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	138.343	16	166.7	0	83.0	56	100				
Aroclor 1260	157.374	16	166.7	0	94.4	57	110				
Surr: Decachlorobiphenyl	13.946		16.67		83.7	36	124				
Surr: Tetrachloro-m-xylene	14.550		16.67		87.3	35	141				

Sample ID: 115803-001AMSA	SampType: MS	TestCode: 8082_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128891						
Client ID: Import 1	Batch ID: 69797	TestNo: EPA 8082	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	130.125	16	166.7	0	78.1	51	108				
Aroclor 1260	143.647	16	166.7	0	86.2	53	120				
Surr: Decachlorobiphenyl	10.647		16.67		63.9	36	124				
Surr: Tetrachloro-m-xylene	14.502		16.67		87.0	35	141				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Ninyo & Moore
Work Order: 115803
Project: Holland Park, 401314006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: 115803-001AMSDA	SampType: MSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 1/17/2011	RunNo: 128891						
Client ID: Import 1	Batch ID: 69797	TestNo: EPA 8082	EPA 3550B	Analysis Date: 1/18/2011	SeqNo: 2089083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	123.016	16	166.7	0	73.8	51	108	130.1	5.62	20	
Aroclor 1260	134.755	16	166.7	0	80.9	53	120	143.6	6.39	20	
Surr: Decachlorobiphenyl	10.445		16.67		62.7	36	124		0	20	
Surr: Tetrachloro-m-xylene	13.910		16.67		83.4	35	141		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



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