



**LABORATORY RESULTS**

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**RIVERHEAD SEWER DISTRICT**

200 HOWELL AVE.  
RIVERHEAD, NY 11901

Attn To : MICHAEL P. REICHEL

Collected : 4/27/2016 11:00:00 AM

Received : 4/27/2016 3:10:00 PM

Collected By SM99

Lab No. : 1604P62-001A

Client Sample ID: PRESS SLUDGE

**Sample Information:**

Type : Sludge

Origin:

<u>Analytical Method:</u> SW8082A :		<u>Prep Method:</u> SW3545A			<u>Prep Date:</u> 5/6/2016 3:34:15 PM		<u>Analyst:</u> JS	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>		
Aroclor 1016	< 180		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Aroclor 1221	< 360		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Aroclor 1232	< 180		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Aroclor 1242	< 180		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Aroclor 1248	< 180		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Aroclor 1254	< 180		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Aroclor 1260	< 180		1	µg/Kg-dry	05/09/2016 12:49 PM	Container-01 of 01		
Surr: Decachlorobiphenyl	57.2		1	%Rec	Limit 30-150	05/09/2016 12:49 PM	Container-01 of 01	
Surr: Tetrachloro-m-xylene	53.5		1	%Rec	Limit 30-150	05/09/2016 12:49 PM	Container-01 of 01	

<u>Analytical Method:</u> SW7.3.3.2 :		<u>Prep Method:</u> SW7.3.3.2			<u>Prep Date:</u> 5/1/2016 4:30:29 PM		<u>Analyst:</u> JDLR	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>		
Reactive Cyanide	< 99.9		+ 1	mg/Kg	05/01/2016 6:00 PM	Container-01 of 01		

<u>Analytical Method:</u> SW9095B :							<u>Analyst:</u> MM	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>		
Free Liquids	Absent		1	P/A	05/03/2016	Container-01 of 01		

<u>Analytical Method:</u> SW1030 :							<u>Analyst:</u> hb	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>		
Ignitability	0		1	mm/sec-dry	05/09/2016 9:03 PM	Container-01 of 01		

**NOTES:**

Waste was found to be nonflammable under conditions of the test.

<u>Analytical Method:</u> SW9045D :							<u>Analyst:</u> RL	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>		
pH	7.0		+ 1	pH Units	05/18/2016 3:15 PM	Container-01 of 02		

<u>Analytical Method:</u> D2216 :							<u>Analyst:</u> RL	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>		
Percent Moisture	81.7		1	wt%	04/28/2016 4:34 PM	Container-01 of 01		

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported : 5/19/2016

Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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**LABORATORY RESULTS**

Results for the samples and analytes requested

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**Sample Information:**

Type : Sludge

Origin:

**RIVERHEAD SEWER DISTRICT**

**200 HOWELL AVE.**

**RIVERHEAD, NY 11901**

**Attn To : MICHAEL P. REICHEL**

**Lab No. : 1604P62-001A**  
**Client Sample ID: PRESS SLUDGE**

Collected : 4/27/2016 11:00:00 AM

Received : 4/27/2016 3:10:00 PM

Collected By SM99

<u>Analytical Method:</u> SW7.3.4.2 :					<u>Analyst:</u> JDLR
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Reactive Sulfide	< 100	+	1	mg/Kg	05/02/2016 3:53 PM
<u>Analytical Method:</u> SM22 2540G :					<u>Analyst:</u> RL
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Total Solids	14.3	+	1	wt%	04/28/2016 4:34 PM
<u>Analytical Method:</u> SM22 2540G :					<u>Analyst:</u> RL
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Total Volatile Solids	81.7	+	1	wt%	04/28/2016 4:34 PM

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N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported : 5/19/2016



Sr. Project Manager : Stu Murrell

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**LABORATORY RESULTS**

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**Sample Information:**

Type : Sludge

Origin:

**RIVERHEAD SEWER DISTRICT**  
**200 HOWELL AVE.**  
**RIVERHEAD, NY 11901**

Attn To : MICHAEL P. REICHEL

Lab No. : **1604P62-001B**  
 Client Sample ID: **PRESS SLUDGE**

Collected : 4/27/2016 11:00:00 AM

Received : 4/27/2016 3:10:00 PM

Collected By SM99

Analytical Method: SW9071B :

Analyst: Sub

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Total Petroleum Hydrocarbons (SUB, See Attached)	24,200		+ 1	mg/Kg	05/16/2016	Container-01 of 01

- Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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Date Reported : 5/19/2016

**LABORATORY RESULTS**

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**RIVERHEAD SEWER DISTRICT**

**200 HOWELL AVE.  
 RIVERHEAD, NY 11901**

**Attn To : MICHAEL P. REICHEL**

Collected : 4/27/2016 11:00:00 AM  
 Received : 4/27/2016 3:10:00 PM TCLP  
 Collected By SM99

**Lab No. : 1604P62-002A**

**Client Sample ID: PRESS SLUDGE**

**Sample Information:**

Type : Sludge

Origin:

<u>Analytical Method:</u> SW1311/8270D :		<u>Prep Method:</u> SW3510C			<u>Prep Date:</u> 5/9/2016 10:33:19 AM		<u>Analyst:</u> EAG	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>		<u>Analyzed:</u>	<u>Container:</u>	
1,4-Dichlorobenzene	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
2,4,5-Trichlorophenol	< 0.0250		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
2,4,6-Trichlorophenol	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
2,4-Dinitrotoluene	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
2-Methylphenol	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Hexachlorobenzene	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Hexachlorobutadiene	< 0.0100	S	1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Hexachloroethane	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Nitrobenzene	< 0.0100		1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Pentachlorophenol	< 0.0250	cS	1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Pyridine	< 0.0100	S	1	mg/L		05/16/2016 10:04 PM	Container-01 of 01	
Surr: 1,2-Dichlorobenzene-d4	46.8		1	%Rec	Limit 16-110	05/16/2016 10:04 PM	Container-01 of 01	
Surr: 2,4,6-Tribromophenol	77.3		1	%Rec	Limit 10-123	05/16/2016 10:04 PM	Container-01 of 01	
Surr: 2-Chlorophenol-d4	69.3		1	%Rec	Limit 33-110	05/16/2016 10:04 PM	Container-01 of 01	
Surr: 2-Fluorobiphenyl	76.2		1	%Rec	Limit 43-116	05/16/2016 10:04 PM	Container-01 of 01	
Surr: 2-Fluorophenol	47.5		1	%Rec	Limit 21-110	05/16/2016 10:04 PM	Container-01 of 01	
Surr: 4-Terphenyl-d14	123		1	%Rec	Limit 33-141	05/16/2016 10:04 PM	Container-01 of 01	
Surr: Nitrobenzene-d5	53.0		1	%Rec	Limit 35-114	05/16/2016 10:04 PM	Container-01 of 01	
Surr: Phenol-d5	38.6		1	%Rec	Limit 10-110	05/16/2016 10:04 PM	Container-01 of 01	

<u>Analytical Method:</u> SW1311/8151A :		<u>Prep Method:</u> SW1311/8151			<u>Prep Date:</u> 5/10/2016 9:49:48 AM		<u>Analyst:</u> MJM	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>		<u>Analyzed:</u>	<u>Container:</u>	
2,4,5-TP (Silvex)	< 0.0025		1	mg/L		05/11/2016 8:06 PM	Container-01 of 01	
2,4-D	< 0.0050		1	mg/L		05/11/2016 8:06 PM	Container-01 of 01	
Surr: DCAA	34.2	S	1	%Rec	Limit 36-121	05/11/2016 8:06 PM	Container-01 of 01	

**NOTES:**

Surrogate recovery low. Re-extract/re-analysis confirms original results.

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 B = Found in Blank  
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 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
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Date Reported : 5/19/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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**RIVERHEAD SEWER DISTRICT**  
**200 HOWELL AVE.**  
**RIVERHEAD, NY 11901**

Attn To : MICHAEL P. REICHEL

Collected : 4/27/2016 11:00:00 AM  
 Received : 4/27/2016 3:10:00 PM TCLP  
 Collected By SM99

Lab No. : **1604P62-002A**  
 Client Sample ID: **PRESS SLUDGE**

**Sample Information:**  
 Type : Sludge

Origin:

<u>Analytical Method:</u> SW1311/7470A :		<u>Prep Method:</u> SW7470		<u>Prep Date:</u> 5/6/2016 6:30:00 AM		<u>Analyst:</u> BC	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Mercury	0.209		1	ug/L	05/06/2016 9:26 AM	Container-01 of 01	

<u>Analytical Method:</u> SW1311/6010C :		<u>Prep Method:</u> SW3005A		<u>Prep Date:</u> 5/9/2016 6:30:00 AM		<u>Analyst:</u> JA	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Arsenic	< 1.00		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	
Barium	< 10.0		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	
Cadmium	< 0.100		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	
Chromium	< 1.00		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	
Lead	< 1.00		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	
Selenium	< 0.100		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	
Silver	< 1.00		1	mg/L	05/09/2016 2:07 PM	Container-01 of 01	

<u>Analytical Method:</u> SW1311/8081B :		<u>Prep Method:</u> SW3510C		<u>Prep Date:</u> 5/9/2016 10:04:36 AM		<u>Analyst:</u> JS	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Chlordane	< 0.0020		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
Endrin	< 0.00020		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
gamma-BHC	< 0.00010		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
Heptachlor	< 0.00010		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
Heptachlor epoxide	< 0.00010		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
Methoxychlor	< 0.0010		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
Toxaphene	< 0.010		1	mg/L	05/10/2016 2:50 PM	Container-01 of 01	
Surr: Decachlorobiphenyl	72.6		1	%Rec	Limit 30-150	05/10/2016 2:50 PM	Container-01 of 01
Surr: Tetrachloro-m-xylene	82.1		1	%Rec	Limit 30-150	05/10/2016 2:50 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
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 M-, M+ = Matrix Spike recovery below / above control limit  
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 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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**Sample Information:**

Type : Sludge

Origin:

**RIVERHEAD SEWER DISTRICT**  
**200 HOWELL AVE.**  
**RIVERHEAD, NY 11901**

Attn To : MICHAEL P. REICHEL

Lab No. : **1604P62-002A**  
 Client Sample ID: **PRESS SLUDGE**

Collected : 4/27/2016 11:00:00 AM  
 Received : 4/27/2016 3:10:00 PM TCLP  
 Collected By SM99

Parameter(s)	Results	Qualifier	D.F.	Units	Prep Date: 5/5/2016 3:23:26 PM	Analyst: MF
					Analyzed:	Container:
1,1-Dichloroethene	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
1,2-Dichloroethane	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
1,4-Dichlorobenzene	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
2-Butanone	0.14		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Benzene	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Carbon tetrachloride	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Chlorobenzene	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Chloroform	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Tetrachloroethene	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Trichloroethene	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Vinyl chloride	< 0.010		1	mg/L	05/09/2016 2:12 PM	Container-01 of 01
Surr: 1,2-dichloroethane-d4	84.5		1	%Rec	Limit 53-183	05/09/2016 2:12 PM Container-01 of 01
Surr: 4-Bromofluorobenzene	92.8		1	%Rec	Limit 63-140	05/09/2016 2:12 PM Container-01 of 01
Surr: Toluene-d8	87.9		1	%Rec	Limit 60-135	05/09/2016 2:12 PM Container-01 of 01

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 S = Recovery outside of control limits for this analyte  
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 Sr. Project Manager : Stu Murrell

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**RIVERHEAD SEWER DISTRICT**

**200 HOWELL AVE.  
RIVERHEAD, NY 11901**

**Attn To : MICHAEL P. REICHEL**

**Lab No. : 1604P62-003A**

**Client Sample ID: PRESS SLUDGE**

**Sample Information:**

Type : Sludge

Origin:

Collected : 4/27/2016 11:00:00 AM  
Received : 4/27/2016 3:10:00 PM NON-ACID LEACHING TCLP  
Collected By SM99

<u>Analytical Method:</u> E410.4 :					<u>Analyst:</u> VaS
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Chemical Oxygen Demand	220	D	2	mg/L	05/16/2016 10:36 AM
<u>Analytical Method:</u> E350.1 :					<u>Analyst:</u> bka
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Nitrogen, Ammonia (As N)	18.6	D	25	mg/L	05/17/2016 11:59 AM
<u>Analytical Method:</u> SM4500-H B : IOC					<u>Analyst:</u> GAC
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
pH	6.6		+ 1	pH Units	05/17/2016 12:07 PM
pH Temperature	22.3		+ 1	°C	05/17/2016 12:07 PM
<u>Analytical Method:</u> E1664A :					<u>Analyst:</u> RL
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Non-Polar Material (TPH)	< 5.0		1	mg/L	05/18/2016 9:30 AM
<u>Analytical Method:</u> SM22 2540B :					<u>Analyst:</u> SH2
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>
Solids, Total	357		1	mg/L	05/13/2016 1:44 PM

Qualifiers: E = Value above quantitation range, Value estimated.  
B = Found in Blank  
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J = Estimated value - below calibration range  
M-, M+ = Matrix Spike recovery below / above control limit  
N = Indicates presumptive evidence of compound  
P = Duplicate RPD outside of control limit  
r = Reporting limit below calibration range. Value estimated.  
S = Recovery outside of control limits for this analyte  
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported : 5/19/2016

*Stu Murrell*  
Sr. Project Manager : Stu Murrell

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PACE ANALYTICAL  
 575 Broad Hollow Road  
 Melville, NY 11747  
 TEL: (631) 694-3040 FAX: (631) 420-8436  
 Website: [www.pacelabs.com](http://www.pacelabs.com)

# Sample Receipt Checklist

Client Name **RHS**

Date and Time Received: **4/27/2016 3:10:00 PM**

Work Order Number: **1604P62**

RcptNo: **1**

Received by: **Paige Doherty**

Completed by: *Paige Doherty*

Reviewed by: *Stu Murrell*

Completed Date: 4/27/2016 5:00:15 PM

Reviewed Date: 5/2/2016 11:31:02 AM

Carrier name: PACE Pickup

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Are matrices correctly identified on Chain of custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- Custody seals intact on sample bottles? Yes  No  Not Present
- Samples in proper container/bottle? Yes  No
- Were correct preservatives used and noted? Yes  No  NA
- Preservative added to bottles:
- Sample Condition? Intact  Broken  Leaking
- Sufficient sample volume for indicated test? Yes  No
- Were container labels complete (ID, Pres, Date)? Yes  No
- All samples received within holding time? Yes  No
- Was an attempt made to cool the samples? Yes  No  NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes  No  NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes  No  To 3.8°
- Water - Were bubbles absent in VOC vials? Yes  No  No Vials
- Water - Was there Chlorine Present? Yes  No  NA
- Water - pH acceptable upon receipt? Yes  No  No Water
- Are Samples considered acceptable? Yes  No
- Custody Seals present? Yes  No
- Airbill or Sticker? Air Bill  Sticker  Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted?  Yes  No  NA Person Contacted:

Contact Mode:  Phone:  Fax:  Email:  In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

Client listed "Press Sludge" on their chain with Paint filter and TCLP as the tests being requested. Samples was logged as per client sample history for the clients annual sludge sampling.

CorrectiveAction:



THIS SIDE

