

APPENDIX D: Analytical Laboratory Reports

FEBRUARY 2002

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

04/18/2002

Attention: Michelle Brown

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 02/21/2002
Chain Of Custody: 23308-14

CLS ID No.: T5763
CLS Job No.: 845763

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Glyphosate Analysis
1	10 Days	Tributyltin by GC/FPD
1	10 Days	BisEHAdipate 506
2	10 Days	Sulfite Analysis
2	10 Days	General Mineral
1	10 Days	17 Metals, by EPA Method 200.8
2	10 Days	Sulfide & NO2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
1	10 Days	EPA Method 548.1
1	10 Days	EPA Method 549.1
2	10 Days	Carbamate and Urea Pesticides, EPA 632
2	10 Days	Total Phosphorus, Standard Method 4500-P
2	10 Days	Chrome VI Analysis by IC, EPA Method 7199
3	10 Days	Ethylene Dibromide, EPA Method 504
1	10 Days	OCl-Pest & PCBs 8081A/8082
1	10 Days	OCl-Pest 8081A
2	10 Days	Organophosphorus Pesticides by GC-NPD
2	10 Days	Chlorinated Acid Herbicides
2	10 Days	VOCs 8260/502.2
1	10 Days	VOCs 502.2
2	10 Days	SVOCs 8270/610
3	10 Days	Acrolein & Acrylonitrile, EPA 8316
1	10 Days	Asbestos Analysis



Due to insufficient sample amount, analysis EPA 8260 was cancelled for sample "Blank".

Sample "Effluent" for PCB analysis was performed past holding time. There is no charge for this analysis.

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 02/21/2002
Date Reported: 03/06/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: W020221N
Instrument ID: INMIX
Analyst ID: SCOTT
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1G / DEER CREEK				
Hardness as CaCO ₃	N/A	160	1.0	1.0
Fluoride	N/A	0.077, J	0.10	1.0
Chloride	N/A	9.2	1.0	2.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.52	0.50	1.0
Sulfate	N/A	9.8	0.50	1.0
Methylene Blue Active Substances	N/A	0.047, J	0.50	1.0
pH	N/A	8.4	Note 1	1.0
Specific Conductance	N/A	280	Note 2	1.0
Total Dissolved Solids	N/A	190	1.0	1.0
2F / EFFLUENT				
Hardness as CaCO ₃	N/A	92	1.0	1.0
Fluoride	N/A	0.089, J	0.10	1.0
Chloride	N/A	55	2.5	5.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	14	2.5	5.0
Sulfate	N/A	72	2.5	5.0
Methylene Blue Active Substances	N/A	0.18, J	0.50	1.0
pH	N/A	7.5	Note 1	1.0
Specific Conductance	N/A	630	Note 2	1.0
Total Dissolved Solids	N/A	440	1.0	1.0

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/22/2002
Date Analyzed: 02/25/2002
Date Reported: 03/06/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1F
Job No.: 845763
COC Log No.: 23308-14
Batch No.: M020222A
Instrument ID: INMIX
Analyst ID: SCOTT
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ag (Silver)	7440224	ND	1.0	200.8	1.0
Al (Aluminum)	7429905	110	50	200.7	1.0
As (Arsenic)	7440382	0.5, J	1.0	206.2	1.0
Ba (Barium)	7440393	16.6, J	100	200.7	1.0
Be (Beryllium)	7440417	0.18, J	1.0	200.7	1.0
Cd (Cadmium)	7440439	2.1	0.25	200.8	1.0
Co (Cobalt)	7440484	ND	20	200.7	1.0
Cr (Chromium)	7440473	0.86, J	2.0	200.8	1.0
Cu (Copper)	7440508	4.5	0.50	200.8	1.0
Fe (Iron)	7439896	520	100	200.7	1.0
Mn (Manganese)	7439965	8.8, J	20	200.7	1.0
Ni (Nickel)	7440020	35	5.0	200.8	1.0
Pb (Lead)	7439921	ND	0.50	200.8	1.0
Sb (Antimony)	7440360	ND	5.0	200.8	1.0
Se (Selenium)	7783008	ND	5.0	270.2	1.0
Tl (Thallium)	7440280	ND	1.0	200.8	1.0
Zn (Zinc)	7440666	4, J	10	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 02/27/2002
Date Reported: 03/06/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: W020221N
Instrument ID: UV002
Analyst ID: SCOTT
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1C / DEER CREEK Sulfide	N/A	ND	1.0	1.0
2C / EFFLUENT Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/22/2002
Date Analyzed: 02/22/2002
Date Reported: 03/06/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: W020221N
Instrument ID: UV002
Analyst ID: SCOTT
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1D / DEER CREEK Ammonia as Nitrogen	N/A	0.18	0.10	1.0
2D / EFFLUENT Ammonia as Nitrogen	N/A	0.22	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Carbamate and Urea Pesticides, EPA Method 632

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/28/2002
Date Reported: 02/28/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02810
Instrument ID: LC001
Analyst ID: JENND
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / DEER CREEK				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0
2G / EFFLUENT				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/26/2002
Date Reported: 03/06/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: W020221N
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1D / DEER CREEK Total Phosphorus	N/A	0.021, J	0.050	1.0
2D / EFFLUENT Total Phosphorus	N/A	1.9	1.0	20

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 02/22/2002
Date Reported: 02/28/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: IC020222
Instrument ID: IC001
Analyst ID: SCOTT
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1E / DEER CREEK Hexavalent Chromium	N/A	ND	1.0	1.0
2E / EFFLUENT Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: EDB and DBCP, EPA Method 504

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/26/2002
Date Analyzed: 03/04/2002
Date Reported: 04/09/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02804
Instrument ID: GC021
Analyst ID: NGOCDUNG
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1B / DEER CREEK				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0
1,2,3-Trichloropropane	96184	ND	0.10	1.0
2B / EFFLUENT				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0
1,2,3-Trichloropropane	96184	ND	0.10	1.0
3B / BLANK				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0
1,2,3-Trichloropropane	96184	ND	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organochlorine Pesticides, EPA Method 8081A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 03/15/2002
Date Reported: 03/20/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1H
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E028808
Instrument ID: GC022
Analyst ID: NGOCDUNG
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.216	0.250	86	43	147
Decachlorobiphenyl 2051243	0.151	0.250	60	43	139

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	ND	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	ND	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organochlorine Pesticides, EPA Method 8081A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 03/15/2002
Date Reported: 03/20/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2G
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E028808
Instrument ID: GC022
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.259	0.250	104	43	147
Decachlorobiphenyl 2051243	0.129	0.250	52	43	139

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	ND	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	ND	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polychlorinated Biphenyls, EPA Method 8082

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02805
Instrument ID: GC019
Analyst ID: NGOCDUNG
Matrix: WATER

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/28/2002
Date Reported: 03/04/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / DEER CREEK				
Aroclor 1016	12674112	ND	0.50	1.0
Aroclor 1221	1104282	ND	0.50	1.0
Aroclor 1232	11141165	ND	0.50	1.0
Aroclor 1242	53469219	ND	0.50	1.0
Aroclor 1248	12672296	ND	0.50	1.0
Aroclor 1254	11097691	ND	0.50	1.0
Aroclor 1260	11096825	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polychlorinated Biphenyls, EPA Method 8082
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 04/16/2002
Date Reported: 04/17/2002

Lab Contact: James Liang
Lab ID No.: T5763A
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02805
Instrument ID: GC019
Analyst ID: JAMESL
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2G / EFFLUENT				
Aroclor 1016	12674112	ND	0.50	1.0
Aroclor 1221	1104282	ND	0.50	1.0
Aroclor 1232	11141165	ND	0.50	1.0
Aroclor 1242	53469219	ND	0.50	1.0
Aroclor 1248	12672296	ND	0.50	1.0
Aroclor 1254	11097691	ND	0.50	1.0
Aroclor 1260	11096825	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/27/2002
Date Reported: 04/15/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1H
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02808
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	ND	1.0	1.0
Atrazine	1912249	ND	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	ND	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/27/2002
Date Reported: 04/15/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2G
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02808
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	ND	1.0	1.0
Atrazine	1912249	ND	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	ND	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/27/2002
Date Analyzed: 03/05/2002
Date Reported: 03/11/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1H
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02821
Instrument ID: GC021
Analyst ID: NGOCDUNG
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	0.249	0.250	100	50	150

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	1.0	1.0
Silvex (2,4,5-TP)	93721	ND	1.0	1.0
Dalapon	75990	ND	2.0	1.0
Dinoseb	88857	ND	1.0	1.0
Bentazon	25057890	ND	2.0	1.0
Picloram	1918021	ND	1.0	1.0
Pentachlorophenol	87865	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/27/2002
Date Analyzed: 03/05/2002
Date Reported: 03/11/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2G
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02821
Instrument ID: GC021
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	0.983	0.250	393 (MA)	50	150

MA = Recovery data is outside standard QC limits due to matrix interference. LCS recovery data validates methodology.

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	1.0	1.0
Silvex (2,4,5-TP)	93721	ND	1.0	1.0
Dalapon	75990	ND	2.0	1.0
Dinoseb	88857	ND	1.0	1.0
Bentazon	25057890	ND	2.0	1.0
Picloram	1918021	ND	1.0	1.0
Pentachlorophenol	87865	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 02/21/2002
Date Reported: 02/25/2002

Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: 32485
Instrument ID: GC016
Analyst ID: JENNDG
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1A / DEER CREEK					
1-chloro-2-fluorobenzene 348-51-6	21.7	20.0	108	70	130
2A / EFFLUENT					
1-chloro-2-fluorobenzene 348-51-6	21.6	20.0	108	70	130
3A / BLANK					
1-chloro-2-fluorobenzene 348-51-6	21.5	20.0	108	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1A / DEER CREEK				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0
2A / EFFLUENT				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0
3A / BLANK				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 03/06/2002
Date Reported: 03/07/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1B
Job No.: 845763
COC Log No.: 23308-14
Batch No.: 32547
Instrument ID: MS05
Analyst ID: JENNDNC
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	11.0	10.0	110	66	135
Toluene-d8 N/A	9.95	10.0	99	72	125
p-Bromofluorobenzene 460004	9.65	10.0	97	73	119

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	ND	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	ND	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	ND	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 03/06/2002
Date Reported: 03/07/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1B
Job No.: 845763
COC Log No.: 23308-14
Batch No.: 32547
Instrument ID: MS05
Analyst ID: JENND C
Matrix: WATER

DEER CREEK(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 03/06/2002
Date Reported: 03/07/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2B
Job No.: 845763
COC Log No.: 23308-14
Batch No.: 32547
Instrument ID: MS05
Analyst ID: JENNDK
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	11.1	10.0	112	66	135
Toluene-d8 N/A	10.2	10.0	102	72	125
p-Bromofluorobenzene 460004	9.76	10.0	98	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	5.6	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	37	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	0.50	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	0.45 J	3.0	1.0
Methylene chloride	75092	0.31 J	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 03/06/2002
Date Reported: 03/07/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2B
Job No.: 845763
COC Log No.: 23308-14
Batch No.: 32547
Instrument ID: MS05
Analyst ID: JENNDNC
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/26/2002
Date Reported: 02/28/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1H
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02806
Instrument ID: LC002
Analyst ID: JENNDG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.20	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo(a)anthracene	56553	ND	0.20	1.0
Benzo(a)pyrene	50328	ND	0.10	1.0
Benzo(b)fluoranthene	205992	ND	0.20	1.0
Benzo(g,h,i)perylene	191242	ND	0.20	1.0
Benzo(k)fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo(a,h)anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno(1,2,3-c,d)pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/26/2002
Date Analyzed: 02/28/2002
Date Reported: 03/05/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1H
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02814
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WATER

SURROGATE

Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	61.3	75.0	82	21	110
Phenol-d5	4165622	59.2	75.0	79	10	110
Nitrobenzene-d5	4665600	40.3	50.0	81	35	114
2-Fluorobiphenyl	321608	46.6	50.0	93	43	116
2,4,6-Tribromophenol	118796	65.4	75.0	87	10	123
Terphenyl-d14	98904439	51.7	50.0	103	33	141

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl)ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl)ether	108601	ND	10	1.0
Bis(2-ethylhexyl)phthalate	117817	ND	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. 12
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/26/2002
Date Analyzed: 02/28/2002
Date Reported: 03/05/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T5763-1H
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02814
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WATER

DEER CREEK (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/26/2002
Date Analyzed: 02/28/2002
Date Reported: 03/05/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2G
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02814
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

SURROGATE

Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	47.9	75.0	64	21	110
Phenol-d5	4165622	57.8	75.0	77	10	110
Nitrobenzene-d5	4665600	40.7	50.0	81	35	114
2-Fluorobiphenyl	321608	46.0	50.0	92	43	116
2,4,6-Tribromophenol	118796	41.4	75.0	55	10	123
Terphenyl-d14	98904439	49.4	50.0	99	33	141

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl) ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl) ether	108601	ND	10	1.0
Bis(2-ethylhexyl) phthalate	117817	ND	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: 02/26/2002
Date Analyzed: 02/28/2002
Date Reported: 03/05/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T5763-2G
Job No.: 845763
COC Log No.: 23308-14
Batch No.: E02814
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. 12
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/21/2002
Date Received: 02/21/2002
Date Extracted: N/A
Date Analyzed: 02/25/2002
Date Reported: 02/27/2002

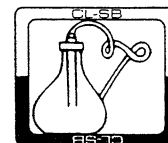
Lab Contact: James Liang
Lab ID No.: T5763
Job No.: 845763
COC Log No.: 23308-14
Batch No.: 32498
Instrument ID: LC002
Analyst ID: JENNDG
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1A / DEER CREEK				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0
2A / EFFLUENT				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0
3A / BLANK				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Lab Job M21415X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916) 638-7301

Project: Client Job No. T5763

Sampled By: D THOMAS
Date Sampled: 02/21/02 00:00:00
Date Received: 02/23/02 07:35:00
Date Started: 02/26/02
Date Completed: 03/14/02
Date Reported: 03/14/02 10:23:12

Lab Contact:
Job No.:
COC Log No.:
Lab ID No.: M21415X-1A
Batch No.:
Instrument ID: VAR
Analyst ID: ORGSTAFF
Matrix: WATER

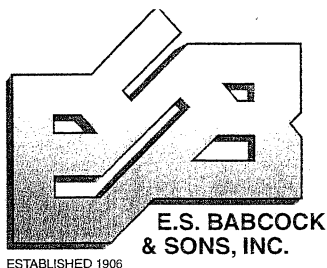
Sample: DEER CREEK

Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di (2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547
Diethylhexylphthalate (DEHP)	117-81-7	ND	3.0	EPA 506

ND = Not detected at or above indicated DLR; Detection Limit for Reporting

Manager: _____

Director: _____



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 2 of 4
Project Name: Invoice Attn.
Project Number: T5763
Report Date: 06-Mar-2002

Laboratory Reference Number

A2B0134-01

Sample Description
T5763 Deer Creek

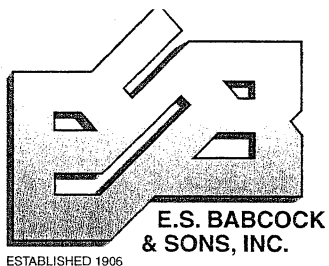
Matrix
Liquid

Sampled Date/Time
02/21/02 14:20

Received Date/Time
02/22/02 9:50

Analyte(s)	Result	*RDL	Units	Method	Analysis Date	Analyst	Flag
Miscellaneous Organic Compounds Tributyl tin	ND	0.020 ug/L		EV -024/025	03/04/02 20:30	rq	

*Reportable Detection Limit



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e-mail: esbsales@aol.com
www.babcocklabs.com

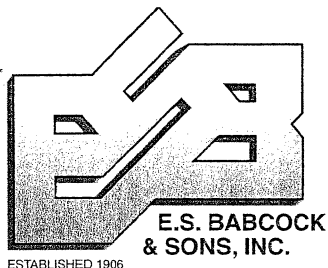
Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 3 of 4
Project Name: Invoice Attn.
Project Number: T5763
Report Date: 06-Mar-2002

Miscellaneous Organic Compounds - Batch Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 2C04014 - Tributyl Tin										
Blank (2C04014-BLK1)				Prepared & Analyzed: 03/04/02						
Tributyl tin	ND	0.020	ug/L							
Duplicate (2C04014-DUP1)				Source: A2B0117-01 Prepared & Analyzed: 03/04/02						
Tributyl tin	ND	10	ug/L		ND				20	

Reportable Detection Limit



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Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 4 of 4
Project Name: Invoice Attn.
Project Number: T5763
Report Date: 06-Mar-2002

Notes and Definitions


DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (RDL)
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.



Ida M. Wallace
Project Manager



James K. Babcock
President

cc:



Sequoia
Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

February 28 , 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: NPDES / P202390

Enclosed are the results of analyses for samples received by the laboratory on 02/22/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Client Services Representative

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T5763
Project Manager: James Liang

Reported:
02/28/02 12:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Deer Creek	P202390-01	Water	02/21/02 14:20	02/22/02 09:55
Effluent	P202390-02	Water	02/21/02 13:30	02/22/02 09:55





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T5763
Project Manager: James Liang

Reported:
02/28/02 12:05

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Deer Creek (P202390-01) Water Sampled: 02/21/02 14:20 Received: 02/22/02 09:55									
Sulfite	ND	5.0	mg/l	1	2020566	02/22/02	02/22/02	EPA 377.1	
Effluent (P202390-02) Water Sampled: 02/21/02 13:30 Received: 02/22/02 09:55									
Sulfite	ND	5.0	mg/l	1	2020566	02/22/02	02/22/02	EPA 377.1	





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T5763
Project Manager: James Liang

Reported:
02/28/02 12:05

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2020566 - General Preparation

Blank (2020566-BLK1)

Prepared & Analyzed: 02/22/02

Sulfite	ND	5.0	mg/l
---------	----	-----	------

LCS (2020566-BS1)

Prepared & Analyzed: 02/22/02

Sulfite	88.0	5.0	mg/l	88.5	99	80-120
---------	------	-----	------	------	----	--------

Matrix Spike (2020566-MS1)

Source: P202390-01

Prepared & Analyzed: 02/22/02

Sulfite	87.0	5.0	mg/l	88.5	ND	98	75-125
---------	------	-----	------	------	----	----	--------





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T5763
Project Manager: James Liang

Reported:
02/28/02 12:05

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Westmont, NJ
(908) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Friday, March 08, 2002

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: T5763
Attention: James Liang
Ref Number: CA02787
Date Sampled: 02-21-02
Date Filtered: 02-22-02
Date Analyzed: 03-07-02

Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
“Determination of Asbestos Structures Over 10µm In Length
in Drinking Water”; by Brackett, Clark & Millette

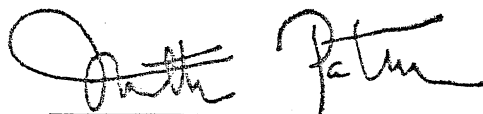
SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Deer Creek	0**	0	None Detected	<0.28	0-0.73	0.28
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

**Sample does contain asbestos, but structures observed were under 10 microns in length.


Analyst


Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620

LOG NO. 522

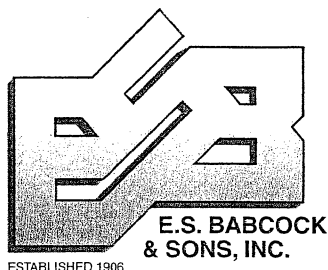
LAB

[illegible]

LAB

5

[illegible]



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PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 1 of 4
Project Name: Invoice Attn.
Project Number: T5763
Report Date: 06-Mar-2002

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
2B0134-01	T5763 Deer Creek	Liquid	02/21/02 14:20	02/22/02 09:50

LOG NO. 534

LAB FILE COPY

[illegible]

CLS - I 'S

CHAIN OF CUSTODY

CLS ID No.; 75763

LOG NO. 3314

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED				FIELD CONDITIONS:					
NAME AND ADDRESS				EID-154											
9746 Watterman Rd. Suite L2				DESTINATION LABORATORY											
Elk Cove, CA 95604				CLC (916) 638-7301											
PROJECT MANAGER				3249 FITZGERALD RD.											
Michelle Bawn 916-714-1801				RANCHO CORDOVA, CA 95742											
PROJECT NAME				OTHER											
Dewitt ERWAT															
SAMPLED BY															
David Thomas															
JOB DESCRIPTION															
Effluent, Deer Creek,															
and Blank Sampling															
SITE LOCATION															
DCHWTP															
DATE		TIME		SAMPLE IDENTIFICATION		MATRIX		CONTAINER NO. TYPE		TURN AROUND TIME				SPECIAL INSTRUCTIONS	
2/2/02	2:00pm	Effluent		WW	2	VOA				1 DAY	2 DAY	5 DAY	10 DAY	NPDES/SIP Reporting Limits 5-Fluor	
2/2/02	2:15pm	Deer Creek		FW	2	VOA									
2/2/02	2:00pm	Blank		RW	1	VOA									
2/2/02	2:00pm	Effluent		WW	3	VOA									
2/2/02	2:15pm	Deer Creek		FW	3	VOA									
2/2/02	2:00pm	Blank		RW	1	VOA									
2/2/02	2:00pm	Effluent		WW	2	VOA									
2/2/02	2:15pm	Deer Creek		FW	2	VOA									
2/2/02	2:00pm	Blank		RW	1	VOA									
2/2/02	2:00pm	Effluent		WW	2	VOA									
2/2/02	2:15pm	Deer Creek		FW	2	VOA									
2/2/02	2:00pm	Blank		RW	1	VOA									
SUSPECTED CONSTITUENTS										PRESERVATIVES:		(1) HCL (2) HNO ₃			(3) = COLD (4)
RELINQUISHED BY (SIGN)		PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY							
David Thomas		David Thomas / RBI		2/2/02 3:20pm											
REC'D BY LAB BY:		DATE/TIME		CONDITIONS / COMMENTS:											
		2/2/02 1520													
SHIPPED BY:		FED X		OTHER		PERSONALLY LIMITED		AIR BILL #							

CLS - I

CHAIN OF CUSTODY

CLS ID No.: 75763

LOG NO. 3310

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:	
NAME AND ADDRESS				DESTINATION LABORATORY					
Robertson-Bryan, Inc.				CLD 154					
9746 Waterman Rd. Suite L2									
BKR Grove, CA 95624									
PROJECT MANAGER Michelle Brown				CLS (916) 638-7301					
PROJECT NAME DFWTP				3249 FITZGERALD RD.					
SAMPLED BY David Thomas				RANCHO CORDOVA, CA. 95742					
JOB DESCRIPTION Deer Creek Sampling									
SITE LOCATION Deer Creek WWT									
DATE	TIME	IDENTIFICATION	MATRIX	NO.	TYPE	SAMPLE RETENTION TIME	PRESERVATIVES:	TURN AROUND TIME	SPECIAL INSTRUCTIONS
2/2/02	2:30	Deer Creek	FW	1	125ml PE	374.2 sulfide	(1) HCL (2) HNO ₃	1 DAY	NPDES/SIP Reporting Limits
2/2/02	2:20	Deer Creek	FW	1	250ml PE 4a	350.2 & 365.2		5 DAY	5-Fluor
2/2/02	2:20	Deer Creek	FW	1	500ml PE 4b	7199		10 DAY	
2/2/02	2:20	Deer Creek	FW	1	500ml PE	200.8			
2/2/02	2:20	Deer Creek	FW	1	500ml PE 2				
2/2/02	2:20	Deer Creek	FW	1	1-LPE				
2/2/02	2:20	Deer Creek	FW	1	1-LPE				
SUSPECTED CONSTITUENTS									
RELINQUISHED BY (SIGN)				PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)	
David Thomas				David Thomas/RBI		2/2/02 3:30pm			
RECEIVED BY (SIGN)				DATE / TIME		CONDITIONS / COMMENTS:		AIR BILL #	
David Thomas				2/2/02 1520					
SHIP BY:				FED X		UPS		OTHER Personally Delivered	

REPORT TO:										FIELD CONDITIONS:									
NAME AND ADDRESS										COMPOSITE:									
Robertson-Bryan, Inc.																			
9766 Waterman Rd. Site L2																			
EIR Grove, CA 95624																			
PROJECT MANAGER Michelle Brown PHONE# 916-714-1801																			
PROJECT NAME DCWWTP ERVBA																			
SAMPLED BY D. Thomas																			
JOB DESCRIPTION Effluent Sampling																			
SITE LOCATION Deer Creek WWTP																			
DATE		TIME		IDENTIFICATION		MATRIX		CONTAINER NO.		TYPE		TURN AROUND TIME		SPECIAL INSTRUCTIONS					
2/2/02		1:30pm		Effluent		WW		1		125ml PE		1 DAY		NPDES/SIP Reporting Limit					
2/2/02		1:30		Effluent		WW		1		250ml PE 4a		2 DAY		J-Flags					
2/2/02		1:30		Effluent		WW		1		500ml PE 4b		3 DAY							
2/2/02		1:30		Effluent		WW		1		500ml PE		4 DAY							
2/2/02		1:30		Effluent		WW		1		1-LPE		5 DAY							
SUSPECTED CONSTITUENTS										PRESERVATIVES:									
										(1) HCL (2) HNO3									
										(3) = GOLD									
										(4) Zn AcD H3O4									
RELINQUISHED BY (SIGN)										PRINT NAME / COMPANY									
David Thomas										David Thomas / RBI									
DATE / TIME										DATE / TIME									
2/2/02										2/2/02 3:20pm									
RECEIVED BY (SIGN)										PRINT NAME / COMPANY									
RECD AT LAB BY:										CONDITIONS / COMMENTS:									
SHIPPED BY:										AIR BILL #									
2/2/02										1520									
OTHER										personally Delivered									
UPS																			
FED X																			

LOG NO. 3309.

[illegible]

LOG NO. - 3312

[illegible]

CLS - I bs

CHAIN OF CUSTODY

CLS ID No.: TS763

LOG NO. 3311

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED						FIELD CONDITIONS:							
NAME AND ADDRESS				E/D-154															
9706 Waterman Rd. Suite L2				DESTINATION LABORATORY															
ELL Grove, CA 95624				<input checked="" type="checkbox"/> CLS (916) 638-7301															
PROJECT MANAGER				3249 FITZGERALD RD.															
Michelle Brown				RANCHO CORDOVA, CA.															
PROJECT NAME				95742															
DCWWTP				<input type="checkbox"/> OTHER															
SAMPLED BY				David Thomas															
JOB DESCRIPTION				Deer Creek Sampling															
SITE LOCATION				DCWWTP															
DATE		TIME		SAMPLE IDENTIFICATION		MATRIX		CONTAINER NO.		TYPE		TURN AROUND TIME				SPECIAL INSTRUCTIONS			
2/2/02	2:20	Deer Creek		FW	2	1-LA						1 DAY	2 DAY	5 DAY	10 DAY	NPDES/SIP Reporting			
2/2/02	2:20	Deer Creek		FW	1	1-LA										2-Flags Limits			
2/2/02	2:20	Deer Creek		FW	1	1-LA													
2/2/02	2:20	Deer Creek		FW	2	1-LA													
2/2/02	2:20	Deer Creek		FW	2	1-LA													
2/2/02	2:20	Deer Creek		FW	1	1-LA													
2/2/02	2:20	Deer Creek		FW	1	1-LA													
2/2/02	2:20	Deer Creek																	
SUSPECTED CONSTITUENTS												PRESERVATIVES: (1) HCL (2) HNO ₃				(3) = COLD (4)			
												SAMPLE RETENTION TIME							
												DATE / TIME				RECEIVED BY (SIGN)			
PRINT NAME / COMPANY												DATE / TIME				PRINT NAME / COMPANY			
David Thomas												2/2/02 3:20pm				David Thomas			
RECD AT LAB BY:												DATE / TIME				CONDITIONS / COMMENTS:			
David Thomas												2/2/02 1520							
SHIPPED BY:												DATE / TIME				AIR BILL #			
<input type="checkbox"/> FED X												<input type="checkbox"/> UPS				<input type="checkbox"/> OTHER			

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

03/20/2002

Attention: Michelle Brown

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 02/20/2002
Chain Of Custody: 26434,6

CLS ID No.: T5703
CLS Job No.: 845703

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Glyphosate Analysis
1	10 Days	Tributyltin by GC/FPD
1	10 Days	Bis2EHAdipate Analysis
1	10 Days	15 Metals, by EPA Method 200.8
1	10 Days	EPA Method 548.1
1	10 Days	EPA Method 549.1
1	10 Days	Carbamate and Urea Pesticides, EPA 632
1	10 Days	OC1-Pest & PCBs EPA 8081A/8082
1	10 Days	Organophosphorus Pesticides by GC-NPD
1	10 Days	Chlorinated Acid Herbicides
1	10 Days	SVOCs 8270/610

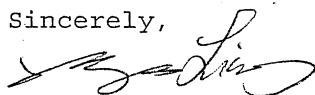
Per your request, the project number was changed to EID-154.

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

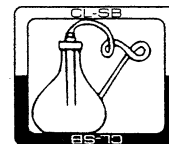
Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Job Lab M21369X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916) 638-7301

Project: Client Job No. T5703

Lab Contact:

Sampled By: NOT LISTED
Date Sampled: 02/19/02 00:00:00
Date Received: 02/21/02 12:00:00
Date Started: 02/21/02
Date Completed: 03/12/02
Date Reported: 03/13/02 15:40:50

Job No.:
COC Log No.:
Lab ID No.: M21369X-1A
Batch No.:
Instrument ID: VAR
Analyst ID: ORGSTAFF
Matrix: WATER

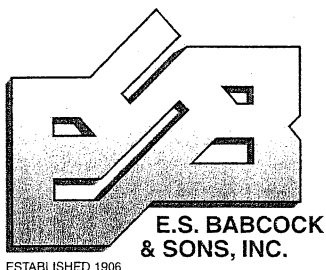
Sample: BLANK

Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di(2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547
Diethylhexylphthalate (DEHP)	117-81-7	ND	3.0	EPA 506

ND = Not detected at or above indicated DLR; Detection Limit for Reporting

Manager: _____

Director: _____



Environmental Laboratory Certification #1156
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e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

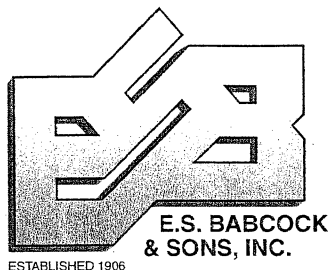
Analytical Report: Page 1 of 4
Project Name: Invoice Attn.
Project Number: T5703
Report Date: 06-Mar-2002

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
2B0118-01	Blank T5703	Liquid	02/19/02 00:00	02/21/02 08:50



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 2 of 4
Project Name: Invoice Attn.
Project Number: T5703
Report Date: 06-Mar-2002

Laboratory Reference Number

A2B0118-01

Sample Description

Blank T5703

Matrix

Liquid

Sampled Date/Time

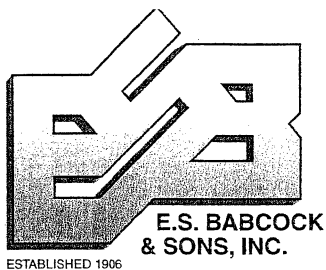
02/19/02 00:00

Received Date/Time

02/21/02 8:50

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Miscellaneous Organic Compounds							
Tributyl tin	ND	10 ug/L		EV -024/025	03/04/02 20:10	rq	

*Reportable Detection Limit



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e-mail: esbsales@aol.com
www.babcocklabs.com

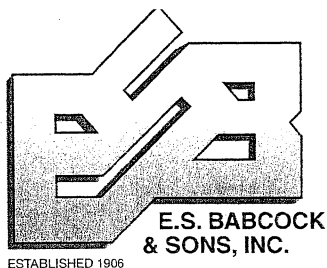
Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 3 of 4
Project Name: Invoice Attn.
Project Number: T5703
Report Date: 06-Mar-2002

Miscellaneous Organic Compounds - Batch Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch 2C04014 - Tributyl Tin									
Blank (2C04014-BLK1)					Prepared & Analyzed: 03/04/02				
Tributyl tin	ND	0.020	ug/L						
Duplicate (2C04014-DUP1)					Source: A2B0117-01 Prepared & Analyzed: 03/04/02				
Tributyl tin	ND	0.020	ug/L		ND			20	

*Reportable Detection Limit



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6100 Quail Valley Court Riverside, CA 92507-0704
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Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742


Analytical Report: Page 4 of 4
Project Name: Invoice Attn.
Project Number: T5703
Report Date: 06-Mar-2002

Notes and Definitions


DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (RDL)
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.



Ida M. Wallace
Project Manager



James K. Babcock
President

cc:

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/22/2002
Date Analyzed: 02/25/2002
Date Reported: 03/06/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T5703-1A
Job No.: 845703
COC Log No.: 26434,6
Batch No.: M020222A
Instrument ID: INMIX
Analyst ID: SCOTT
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ag (Silver)	7440224	ND	1.0	200.8	1.0
Al (Aluminum)	7429905	ND	50	200.7	1.0
As (Arsenic)	7440382	ND	1.0	206.2	1.0
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cd (Cadmium)	7440439	ND	0.25	200.8	1.0
Co (Cobalt)	7440484	ND	20	200.7	1.0
Cr (Chromium)	7440473	0.41, J	2.0	200.8	1.0
Cu (Copper)	7440508	ND	0.50	200.8	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0
Ni (Nickel)	7440020	0.79, J	5.0	200.8	1.0
Pb (Lead)	7439921	ND	0.50	200.8	1.0
Sb (Antimony)	7440360	0.52, J	5.0	200.8	1.0
Se (Selenium)	7783008	ND	5.0	270.2	1.0
Tl (Thallium)	7440280	ND	1.0	200.8	1.0
Zn (Zinc)	7440666	ND	10	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Carbamate and Urea Pesticides, EPA Method 632

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/21/2002
Date Analyzed: 02/28/2002
Date Reported: 02/28/2002

Lab Contact: James Liang
Lab ID No.: T5703
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02799
Instrument ID: LC001
Analyst ID: JENND
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1B / Blank				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organochlorine Pesticides, EPA Method 8081A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/25/2002
Date Analyzed: 03/15/2002
Date Reported: 03/20/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T5703-1B
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02808
Instrument ID: GC022
Analyst ID: NGOCDUNG
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.233	0.250	93	43	147
Decachlorobiphenyl 2051243	0.207	0.250	83	43	139

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	ND	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	ND	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polychlorinated Biphenyls, EPA Method 8082

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/28/2002
Date Reported: 03/04/2002

Lab Contact: James Liang
Lab ID No.: T5703
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02808
Instrument ID: GC019
Analyst ID: NGOCDUNG
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1B / Blank				
Aroclor 1016	12674112	ND	0.50	1.0
Aroclor 1221	1104282	ND	0.50	1.0
Aroclor 1232	11141165	ND	0.50	1.0
Aroclor 1242	53469219	ND	0.50	1.0
Aroclor 1248	12672296	ND	0.50	1.0
Aroclor 1254	11097691	ND	0.50	1.0
Aroclor 1260	11096825	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/25/2002
Date Analyzed: 02/27/2002
Date Reported: 03/04/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T5703-1B
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02808
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	ND	1.0	1.0
Atrazine	1912249	ND	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	ND	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: T5703-1B
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02798
Instrument ID: GC021
Analyst ID: NGOCDUNG
Matrix: WATER

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/21/2002
Date Analyzed: 03/05/2002
Date Reported: 03/11/2002
Client ID No.: Blank

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	0.190	0.250	76	50	150

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	1.0	1.0
Silvex (2,4,5-TP)	93721	ND	1.0	1.0
Dalapon	75990	ND	2.0	1.0
Dinoseb	88857	ND	1.0	1.0
Bentazon	25057890	ND	2.0	1.0
Picloram	1918021	ND	1.0	1.0
Pentachlorophenol	87865	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/26/2002
Date Analyzed: 02/28/2002
Date Reported: 03/05/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T5703-1B
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02814
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WATER

SURROGATE

Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	57.9	75.0	77	21	110
Phenol-d5	4165622	57.2	75.0	76	10	110
Nitrobenzene-d5	4665600	38.5	50.0	77	35	114
2-Fluorobiphenyl	321608	43.7	50.0	88	43	116
2,4,6-Tribromophenol	118796	65.5	75.0	87	10	123
Terphenyl-d14	98904439	48.4	50.0	97	33	141

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl)ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl)ether	108601	ND	10	1.0
Bis(2-ethylhexyl)phthalate	117817	2.3 J	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/26/2002
Date Analyzed: 02/28/2002
Date Reported: 03/05/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T5703-1B
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02814
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WATER

BLANK (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/19/2002
Date Received: 02/20/2002
Date Extracted: 02/21/2002
Date Analyzed: 02/21/2002
Date Reported: 02/22/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T5703-1B
Job No.: 845703
COC Log No.: 26434,6
Batch No.: E02794
Instrument ID: LC002
Analyst ID: JENNDNC
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.20	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo(a)anthracene	56553	ND	0.20	1.0
Benzo(a)pyrene	50328	ND	0.10	1.0
Benzo(b)fluoranthene	205992	ND	0.20	1.0
Benzo(g,h,i)perylene	191242	ND	0.20	1.0
Benzo(k)fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo(a,h)anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno(1,2,3-c,d)pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

The diagrams illustrate the stages of binary fission in a cell. The first diagram shows a single cell with a nucleus. The second diagram shows the nucleus beginning to divide. The third diagram shows the nucleus fully divided into two. The fourth diagram shows the cell membrane and cell wall pinching inward to form two separate daughter cells.

3421307X

[illegible]

LOG NO. 6436

REPORT TO:						CLIENT JOB NUMBER	
NAME AND ADDRESS Robertson-Brown, Inc. 9766 Waterman Rd., Suite L2 Elk Grove, CA 95604						EID-127	
PROJECT MANAGER Michelle Brown 916-714-1801						DESTINATION LABORATORY <input checked="" type="checkbox"/> CLS (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742	
PROJECT NAME DCWWTTP ERWA						<input type="checkbox"/> OTHER	
SAMPLED BY David Thomas							
JOB DESCRIPTION Blank Collection							
SITE LOCATION DCWWTTP							
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE		
2/19/02	12:40	Blank	RW	1	I-LA		
2/19/02	12:40	Blank	RW	2	I-LA		
2/19/02	12:30	Blank	RW	1	I-LA		
2/19/02	12:30	Blank	RW	2	I-LA		
2/19/02	12:30	Blank	RW	2	I-LA		
SUSPECTED CONSTITUENTS							
RELINQUISHED BY (SIGN)						PRINT NAME / COMPANY	
David Thomas						David Thomas/RB1	
RECEIVED BY (SIGN)						DATE / TIME	
						2/20/02 11:45	
CONDITIONS / COMMENTS						AIR BILL #	
RECD AT LAB BY:						DATE / TIME:	
SHIPPED BY:						DATE / TIME:	
FED X						UPS	
OTHER Personally Delivered						02-20-02 1145	

LOG NO. 6434

REPORT TO:		CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:	
NAME AND ADDRESS		EID-127					
9766 Waterman Rd. Suite 2		DESTINATION LABORATORY					
ERK Grove, CA 95624		CLC (916) 638-7301					
PROJECT MANAGER Michelle Brown 916-714-1801		3249 FITZGERALD RD.					
PROJECT NAME: DWWTP ERWQA		RANCHO CORDOVA, CA.					
SAMPLED BY Dave Thomas		95742					
JOB DESCRIPTION Blank Collection							
SITE LOCATION Deer Creek WWTP							
DATE	TIME	IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE		
2/9/02	12:30	Blank	RW	1	500ml PE 2		
2/9/02	12:30	Blank	RW	1	1-LP		
2/9/02	12:40	Blank	RW	1	1-LA		
2/9/02	12:40	Blank	RW	1	1-LA		
2/9/02	12:40	Blank	RW	2	1-LA		
2/9/02	12:30	Blank	RW	2	1-LA		
2/9/02	12:40	Blank	RW	1	1-LA		
SUSPECTED CONSTITUENTS							
RELINQUISHED BY (SIGN)							DATE / TIME
David Thomas							2/20/02 11:45
PRINT NAME / COMPANY							RECEIVED BY (SIGN)
David Thomas / RB1							
DATE / TIME							PRINT NAME / COMPANY
2/20/02 11:45							
CONDITIONS / COMMENTS:							AIR BILL #
REC'D AT LAB BY: [Signature]							
SHIPPED BY: [Signature]							
DATE / TIME: 2-20-02 11:45							
OTHER: Personally Delivered							
UPS							
FED X							

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

03/19/2002

Attention: Michelle Brown

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 02/20/2002
Chain Of Custody: 23307

CLS ID No.: T5713
CLS Job No.: 845713

The following analyses were performed on the above referenced project:

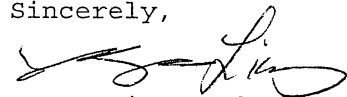
No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Glyphosate Analysis
1	10 Days	Tributyltin by GC/FPD
1	10 Days	Bis2EHAdipate Analysis
1	10 Days	15 Metals, by EPA Method 200.8
1	10 Days	EPA Method 548.1
1	10 Days	EPA Method 549.1
1	10 Days	Polynuclear Aromatic Hydrocarbons - 610

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

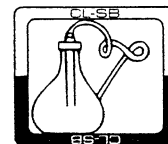
Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Lab Job M21409X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916) 638-7301

Project: Client Job No. T5713

Sampled By: NOT LISTED
Date Sampled: 02/20/02 00:00:00
Date Received: 02/22/02 12:00:00
Date Started: 02/26/02
Date Completed: 03/14/02
Date Reported: 03/14/02 10:10:57

Lab Contact:
Job No.:
COC Log No.:
Lab ID No.: M21409X-1A
Batch No.:
Instrument ID: VAR
Analyst ID: ORGSTAFF
Matrix: WATER

Sample: EFFLUENT

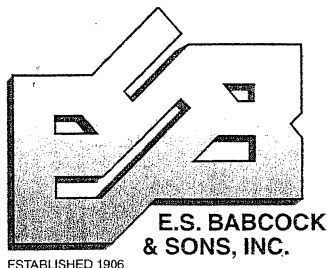
Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di(2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547
Diethylhexylphthalate (DEHP)	117-81-7	ND	3.0	EPA 506

have indicated DLR; Detection Limit for Reporting

#157 Table 4?
Diethyl phthalate?

Manager: _____

Director: _____



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

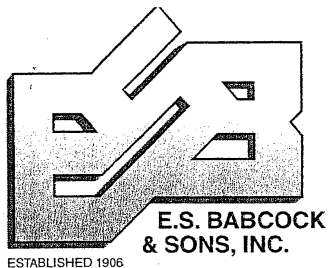
Analytical Report: Page 1 of 4
Project Name: Invoice Attn.
Project Number: [none]
Report Date: 06-Mar-2002

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
2B0117-01	T5713 Effluent	Liquid	02/20/02 00:00	02/21/02 08:50



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 2 of 4
Project Name: Invoice Attn.
Project Number: [none]
Report Date: 06-Mar-2002

Laboratory Reference Number
A2B0117-01

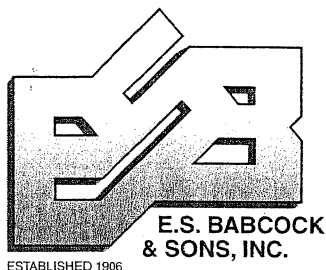
Sample Description
T5713 Effluent

Matrix
Liquid

Sampled Date/Time
02/20/02 00:00

Received Date/Time
02/21/02 8:50

Analyte(s)	Result	*RDL	Units	Method	Analysis Date	Analyst	Flag
Miscellaneous Organic Compounds Tributyl tin	ND	0.020 ug/L		EV -024/025	03/04/02 20:08	rq	



Environmental Laboratory Certification #1156
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P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

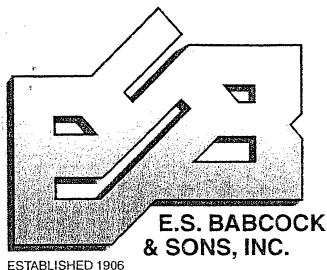
Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 3 of 4
Project Name: Invoice Attn.
Project Number: [none]
Report Date: 06-Mar-2002

Miscellaneous Organic Compounds - Batch Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 2C04014 - Tributyl Tin										
Blank (2C04014-BLK1)				Prepared & Analyzed: 03/04/02						
Tributyl tin	ND	0.020	ug/L							
Duplicate (2C04014-DUP1)				Source: A2B0117-01 Prepared & Analyzed: 03/04/02						
Tributyl tin	ND	0.020	ug/L		ND				20	

Reportable Detection Limit



Environmental Laboratory Certification #1156
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e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

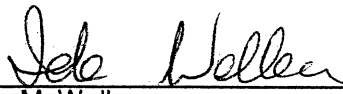
Analytical Report: Page 4 of 4
Project Name: Invoice Attn.
Project Number: [none]
Report Date: 06-Mar-2002

Notes and Definitions


DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (RDL)
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.



Ida M. Wallace
Project Manager



James K. Babcock
President

cc:

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916)714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/20/2002
Date Received: 02/20/2002
Date Extracted: 02/22/2002
Date Analyzed: 02/25/2002
Date Reported: 03/06/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T5713-1A
Job No.: 845713
COC Log No.: 23307
Batch No.: M020222A
Instrument ID: INMIX
Analyst ID: SCOTT
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ag (Silver)	7440224	ND	1.0	200.8	1.0
Al (Aluminum)	7429905	39, J	50	200.7	1.0
As (Arsenic)	7440382	0.4, J	1.0	206.2	1.0
Ba (Barium)	7440393	5.6, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cd (Cadmium)	7440439	ND	0.25	200.8	1.0
Co (Cobalt)	7440484	ND	20	200.7	1.0
Cr (Chromium)	7440473	0.34, J	2.0	200.8	1.0
Cu (Copper)	7440508	14	0.50	200.8	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	0.5, J	20	200.7	1.0
Ni (Nickel)	7440020	24	5.0	200.8	1.0
Pb (Lead)	7439921	ND	0.50	200.8	1.0
Sb (Antimony)	7440360	1.12, J	5.0	200.8	1.0
Se (Selenium)	7783008	1.1, J	5.0	270.2	1.0
Tl (Thallium)	7440280	ND	1.0	200.8	1.0
Zn (Zinc)	7440666	30	10	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 02/20/2002
Date Received: 02/20/2002
Date Extracted: 02/21/2002
Date Analyzed: 02/21/2002
Date Reported: 02/22/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T5713-1D
Job No.: 845713
COC Log No.: 23307
Batch No.: E02794
Instrument ID: LC002
Analyst ID: JENNDK
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.20	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo(a)anthracene	56553	ND	0.20	1.0
Benzo(a)pyrene	50328	ND	0.10	1.0
Benzo(b)fluoranthene	205992	ND	0.20	1.0
Benzo(g,h,i)perylene	191242	ND	0.20	1.0
Benzo(k)fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo(a,h)anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno(1,2,3-c,d)pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

1709

[illegible]

36503

36503

[illegible]

CLS abs

CHAIN OF CUSTODY

CLS ID No.: TS71B

LOG NO. 23307

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED				FIELD CONDITIONS:					
NAME AND ADDRESS				ED-127											
9746 Waterman Rd. Suite 12				DESTINATION LABORATORY											
ELR Grove, CA 95624				CLC (916) 638-7301											
PROJECT MANAGER Michelle Brown 916-714-1871				3249 FITZGERALD RD.											
PROJECT NAME DE WWTP ERW04				RANCHO CORDOVA, CA.											
SAMPLED BY David Thomas				OTHER											
JOB DESCRIPTION Effluent Sampling															
SITE LOCATION Deer Creek WWTP															
DATE		TIME		SAMPLE IDENTIFICATION		MATRIX		CONTAINER NO.		TYPE		TURN AROUND TIME		SPECIAL INSTRUCTIONS	
2/20/02	1:00pm	Effluent		WW	1	500ml	P2								
2/20/02	1:00pm	Effluent		WW	1	1-LP									
2/20/02	1:00pm	Effluent		WW	1	1-LA									
2/20/02	1:00pm	Effluent		WW	1	1-LA									
2/20/02	1:00pm	Effluent		WW	2	1-LA									
2/20/02	1:00pm	Effluent		WW	2	1-LA									
2/20/02	1:00pm	Effluent		WW	1	1-LA									
SUSPECTED CONSTITUENTS															
INVOICE TO:															
P.O. #															
QUOTE #															
(3) = COLD (4)															
PRESERVATIVES: (1) HCL (2) HNO ₃															
SAMPLE RETENTION TIME															
RECEIVED BY (SIGN)															
DATE / TIME															
PRINT NAME / COMPANY															
RELINQUISHED BY (SIGN)															
PRINT NAME / COMPANY															
RECD AT LAB BY															
DATE TIME															
CONDITIONS / COMMENTS:															
SHIPPED BY: <input type="checkbox"/> FED X <input type="checkbox"/> UPS <input checked="" type="checkbox"/> OTHER Personally Delivered															
AIR BILL #															



March 13, 2002

Alta Project I.D.: 21785

Mr. David Thomas
Robertson-Bryan, Inc.
9766 Waterman Road
Suite L2
Elk Grove, CA 95624

Dear Mr. Thomas,

Enclosed are the results for the one effluent and one blank samples received at Alta Analytical Laboratory on February 22, 2002 under your Project Name "DCWWTP ERWQA". The effluent sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

As instructed on the chain-of-custody, the Field Blank was put on hold.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

A handwritten signature in black ink, reading "Martha M. Maier", written in a cursive style.

Martha M. Maier
Director of HRMS Services
Alta Analytical Laboratory

Alta Analytical Laboratory Inc.

5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762

FAX (916) 933-0940
(916) 933-1640

Section I: Sample Inventory Report

Date Received: 2/22/2002

Alta Lab. ID

Client Sample ID

21785-001

EFFLUENT

21785-002

BLANK

SECTION I

EPA Method 1613

Method Blank				EPA METHOD 1613					
Matrix:	Effluent	QC Batch No.:	2707	Lab Sample:	0-MB001				
Sample Size:	1,000 L	Date Extracted:	1-Mar-02	Date Analyzed DB-5:	4-Mar-02	Date Analyzed DB-225:	NA		
Analyte	Conc. (pg/L)	DL ^a	EMPC ^b	MDL ^c	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	1.22		0.847		IS 13C-2,3,7,8-TCDD	85.4	25 - 164	
1,2,3,7,8-PeCDD	ND	1.94		1.39		13C-1,2,3,7,8-PeCDD	81.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	2.56		2.01		13C-1,2,3,4,7,8-HxCDD	64.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	2.91		1.75		13C-1,2,3,6,7,8-HxCDD	74.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	2.62		3.95		13C-1,2,3,4,6,7,8-HpCDD	70.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	3.78		2.37		13C-OCDD	68.6	17 - 157	
OCDD	ND	9.75		9.67		13C-2,3,7,8-TCDF	88.8	24 - 169	
2,3,7,8-TCDF	ND	0.684		0.478		13C-1,2,3,7,8-PeCDF	79.2	24 - 185	
1,2,3,7,8-PeCDF	ND	1.74		3.06		13C-2,3,4,7,8-PeCDF	83.8	21 - 178	
2,3,4,7,8-PeCDF	ND	1.41		1.84		13C-1,2,3,4,7,8-HxCDF	66.4	26 - 152	
1,2,3,4,7,8-HxCDF	ND	1.06		2.06		13C-1,2,3,6,7,8-HxCDF	75.0	26 - 123	
1,2,3,6,7,8-HxCDF	ND	1.03		2.57		13C-2,3,4,6,7,8-HxCDF	73.7	28 - 136	
2,3,4,6,7,8-HxCDF	ND	1.13		2.48		13C-1,2,3,7,8,9-HxCDF	73.3	29 - 147	
1,2,3,7,8,9-HxCDF	ND	1.63		2.04		13C-1,2,3,4,6,7,8-HpCDF	67.7	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	1.16		2.57		13C-1,2,3,4,7,8,9-HpCDF	71.1	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	1.65		2.38		13C-OCDF	68.3	17 - 157	
OCDF	ND	4.69		4.26		CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197	
Totals				TEQ Data ^e					
Total TCDD				TEQ (Min-Max): 0 - 5.38					
Total PeCDD									
Total HxCDD									
Total HpCDD									
Total TCDF									
Total PeCDF									
Total HxCDF									
Total HpCDF									
a. Sample specific estimated detection limit.									
b. Estimated maximum possible concentration.									
c. Method detection limit.									
d. Lower control limit - upper control limit.									
e. Toxic Equivalent Quotient (TEQ) based on World Health Organization Toxic Equivalent Factors									

Analyst: RAS

Approved By: Martha M. Maier 13-Mar-2002 15:58

OPR Results				EPA METHOD 1613			
Matrix:	Effluent	QC Batch No.:	2707	Lab Sample:	0-OPR001		
Sample Size:	1,000 L	Date Extracted:	1-Mar-02	Date Analyzed DB-5:	4-Mar-02	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	
2,3,7,8-TCDD	10.0	9.67	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	82.8	20 - 175	
1,2,3,7,8-PeCDD	50.0	50.6	35 - 71	13C-1,2,3,7,8-PeCDD	76.8	21 - 227	
1,2,3,4,7,8-HxCDD	50.0	49.4	35 - 82	13C-1,2,3,4,7,8-HxCDD	57.3	21 - 193	
1,2,3,6,7,8-HxCDD	50.0	49.1	38 - 67	13C-1,2,3,6,7,8-HxCDD	71.2	25 - 163	
1,2,3,7,8,9-HxCDD	50.0	53.5	32 - 81	13C-1,2,3,4,6,7,8-HpCD	64.8	26 - 166	
1,2,3,4,6,7,8-HpCDD	50.0	49.1	35 - 70	13C-OCDD	71.2	13 - 199	
OCDD	100	94.4	78 - 144	13C-2,3,7,8-TCDF	87.8	22 - 152	
2,3,7,8-TCDF	10.0	9.31	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	74.8	21 - 192	
1,2,3,7,8-PeCDF	50.0	48.5	40 - 67	13C-2,3,4,7,8-PeCDF	82.6	13 - 328	
2,3,4,7,8-PeCDF	50.0	47.8	34 - 80	13C-1,2,3,4,7,8-HxCDF	59.9	19 - 202	
1,2,3,4,7,8-HxCDF	50.0	47.3	36 - 67	13C-1,2,3,6,7,8-HxCDF	70.8	21 - 159	
1,2,3,6,7,8-HxCDF	50.0	49.5	42 - 65	13C-2,3,4,6,7,8-HxCDF	67.8	22 - 176	
2,3,4,6,7,8-HxCDF	50.0	50.0	35 - 78	13C-1,2,3,7,8,9-HxCDF	68.5	17 - 205	
1,2,3,7,8,9-HxCDF	50.0	46.8	39 - 65	13C-1,2,3,4,6,7,8-HpCD	66.3	21 - 158	
1,2,3,4,6,7,8-HpCDF	50.0	50.4	41 - 61	13C-1,2,3,4,7,8,9-HpCD	69.9	20 - 186	
1,2,3,4,7,8,9-HpCDF	50.0	48.7	39 - 69	13C-OCDF	68.0	13 - 199	
OCDF	100	95.1	63 - 170	CRS 37Cl-2,3,7,8-TCDD	92.0	31 - 191	

Analyst: RAS

Approved By: Martha M. Maier 13-Mar-2002 15:58

Sample ID: EFFLUENT				EPA METHOD 1613					
Client Data		Sample Data		Laboratory Data					
Name:	Robertson-Brvan, Inc.	Matrix:	Effluent	Lab Sample:	21785-001	Date Received:	22-Feb-02		
Project:	DCWWTP ERWQA	Sample Size:	0.900 L	QC Batch No.:	2707	Date Extracted:	1-Mar-02		
Date Collected:	22-Feb-02			Date Analyzed DB-5:	9-Mar-02	Date Analyzed DB-225:	NA		
Time Collected:	1530								
Analyte	Conc. (pg/L)	DL ^a	EMPC ^b	MDL ^c	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	3.19		0.847		IS 13C-2,3,7,8-TCDD	85.2	25 - 164	
1,2,3,7,8-PeCDD	ND	2.70		1.39		13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND	1.60		2.01		13C-1,2,3,4,7,8-HxCDD	78.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	1.79		1.75		13C-1,2,3,6,7,8-HxCDD	80.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.62		3.95		13C-1,2,3,4,6,7,8-HpCDD	81.2	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	2.33		2.37		13C-OCDD	91.4	17 - 157	
OCDD	ND	9.70		9.67		13C-2,3,7,8-TCDF	60.7	24 - 169	
2,3,7,8-TCDF	ND	1.02		0.478		13C-1,2,3,7,8-PeCDF	62.7	24 - 185	
1,2,3,7,8-PeCDF	ND	1.95		3.06		13C-2,3,4,7,8-PeCDF	68.6	21 - 178	
2,3,4,7,8-PeCDF	ND	1.58		1.84		13C-1,2,3,4,7,8-HxCDF	64.1	26 - 152	
1,2,3,4,7,8-HxCDF	ND	1.03		2.06		13C-1,2,3,6,7,8-HxCDF	68.2	26 - 123	
1,2,3,6,7,8-HxCDF	ND	1.06		2.57		13C-2,3,4,6,7,8-HxCDF	78.7	28 - 136	
2,3,4,6,7,8-HxCDF	ND	1.01		2.48		13C-1,2,3,7,8,9-HxCDF	82.6	29 - 147	
1,2,3,7,8,9-HxCDF	ND	1.51		2.04		13C-1,2,3,4,6,7,8-HpCDF	76.3	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.804		2.57		13C-1,2,3,4,7,8,9-HpCDF	79.7	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	1.17		2.38		13C-OCDF	85.3	17 - 157	
OCDF	ND	3.82		4.26		CRS 37Cl-2,3,7,8-TCDD	92.5	35 - 197	
Totals				TEQ Data ^e					
Total TCDD	ND	3.54				TEQ (Min-Max): 0 - 7.89			
Total PeCDD	ND	6.18				a. Sample specific estimated detection limit.			
Total HxCDD	ND	4.41				b. Estimated maximum possible concentration.			
Total HpCDD	ND	2.33				c. Method detection limit.			
Total TCDF	ND	1.02				d. Lower control limit - upper control limit.			
Total PeCDF	ND	1.75				e. Toxic Equivalent Quotient (TEQ) based on World Health Organization Toxic Equivalent Factors			
Total HxCDF	ND	1.14							
Total HpCDF	ND	0.965							

Analyst: MS

Approved By: Martha M. Maier 13-Mar-2002 15:58

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

A	The amount detected is below the Instrument Calibration Limit.
B	This compound was also detected in the blank.
C	The amount detected is less than five times the Method Quantitation Limit due to possible chlorinated diphenyl ether interference.
D	The amount reported is the maximum possible concentration.
E	The detection limit was raised above the Method Quantitation Limit due to chemical interferences.
F	The amount detected is above the instrument calibration limit.
G	Result taken from diluted extract.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical Interference
Conc.	Concentration
D.L.	Sample specific estimated Detection Limit
NA	Not applicable
*	See Cover Letter
ND	Not Detected
EMPC	Estimated Maximum Possible Concentration
MDL	Method Detection Limit
IS	Internal Standard
RS	Recovery Standard
CRS	Cleanup Recovery Standard
PS	Pre-Spike Standard

CURRENT CERTIFICATIONS

Bureau of Reclamation — Mid-Pacific Region — (MP-470, Res-1.10)
Commonwealth of Kentucky — (Certificate No. 90063)
Commonwealth of Virginia — (Certificate No. 00013)
Department of the Navy
State of Alaska, Department of Environmental Conservation — (Certificate No. OS-00197)
State of Arkansas, Department of Health — (Approval granted through CA certification)
State of Arkansas, Department of Environmental Quality
State of California — (Certificate No. 1640)
State of Connecticut — (Certificate No. PH-0182)
State of Florida — (Certificate No. 87456)
State of Louisiana, Department of Health and Hospitals — (Certificate No. LA000014)
State of Louisiana, Department of Environmental Quality
State of Mississippi — (Approval granted through CA certification)
State of Nevada — (Certificate No. CA413)
State of New York, Department of Health — (Certificate No. 11411)
State of North Carolina — (Certification No. 06700)
State of North Dakota, Department of Health — (Certificate No. R-078)
State of Oregon — (Certificate No. CA413)
State of Pennsylvania — (Certificate No. 68-490)
State of South Carolina — (Certificate No. 87002001)
State of Tennessee — (Certificate No. 02996)
State of Texas — (Certificate No. TX247-1000A)
State of Utah — (Certificate No. E-201)
State of Washington — (Certification No. C091)
State of Wisconsin — (Certificate No. 998036160)
State of Wyoming — (USEPA Region 8 Ref: 8TMS-Q)
U.S. Army Corps of Engineers
U.S. EPA Region 5

STANDARD OPERATING PROCEDURE

SAMPLE LOG-IN CHECKLIST

ALTA Project No.: 21785

Client/Protocol No. N/A

1. Date Samples Arrived: <u>2/22/02</u>	Initials: <u>MA</u>	Location: <u>WR-1</u>
2. Time / Date logged in: <u>2/25/02 11:30</u>	Initials: <u>V</u>	Location: <u>R-1</u>
3. Samples Arrived By: (circle) FedEx UPS World Courier Other: <u>Client</u>		
4. Shipping Preservation: (circle) Ice / <u>Blue Ice</u> Dry Ice / None Temp °C <u>0.6°C</u>		
5. Shipping Container(s) Intact? If not, describe condition in comment section.	YES	NO
6. Shipping Container(s) Custody Seals Present? Intact? If not intact, describe condition in comment section.		
7. Shipping Documentation Present? (circle) Shipping Label Airbill Tracking Number		
8. Sample Custody Seal(s) Present? No. of Seals _____ or Seal No. Intact? If not intact, describe condition in comment section.		
9. Sample Container Intact? If no, indicate sample condition in comment section.		
10. Chain of Custody (COC) or other Sample Documentation Present?		
11. COC/Documentation Acceptable? If no, complete COC Anomaly Form.		
12. Shipping Container (circle): <u>ALTA</u> Client <u>Retain</u> or Return or Disposed		
13. Container(s) and/or Bottle(s) Requested?		
14. Drinking Water Sample? (HRMS Only) If yes, Acceptable Preservation? Y or N Preservation Info From? (circle) COC or Sample Container or None Noted		
15. Number of Samples Received: <u>W/A</u>		

Name: _____
(Signature Required for LCMS Only)

Date Samples Reconciled: _____

Comments:

ALTA Analytical Laboratory
5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762
FAX# (916) 933-0940 Phone (916) 933-1640

SOP# CH10B_R14, Page 5 of 8

CHAIN OF CUSTODY RECORD

Laboratory Project ID: 21783 Temp 6°C
Storage ID: 0-1 Storage Secured: Yes ☒ No ☐

Project I.D.: <u>ECWTP ERWQA</u>	P.O. #: _____	Sampler: <u>David Thomas</u>	(Printed Name)	<u>David Thomas</u>	(Signature)
Relinquished by: (Signature and Printed Name) <u>David Thomas / David Thomas</u>	Date: <u>2/22/02</u>	Time: <u>5:03</u>	Received by: (Signature and Printed Name) <u>Michael Hall</u>	Date: <u>2/22/02</u>	Time: <u>5:05</u>
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Alia Analytical Laboratory
5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762
(916) 933-1640 • Fax (916) 933-0940
www.alialab.com

ATTN: Murtha Price

Method of Shipment:

5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762
(916) 933-1640 • Fax (916) 933-0940
www.altalab.com

Shipment ID:

Circle or Add
Analysis(es) R

STANDARD TAT = 21 DAYS.
Surcharge may be applied
for less than 21 days.

TAT (Analytical Turnaround Times): 1 = 7 days,
2 = 14 days, 3 = 21 days, 4 = 28 days

[illegible]

Special Instructions/Comments:

Special Instructions/Comments: Only analyze field blanks if detectable concentrations of diaxins and furans are measured in the effluent samples

SEND
DOCUMENT
AND RESULT

Name: David Thomas
Company: Robertson-Brynn, Inc. (RBI)
Address: 9700 Waterman Pl. Suite L2
City: Elk Grove State: CA Zip: 95624
Phone: 916-714-1801 Fax: 916-714-1804

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other

*Bottle Preservative Type: T = Thiosulfate,
O = Other

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater,
O = Other *Blank*

WHITE - ORIGINAL

YELLOW - ARCHIVE

PINK - COPY

MARCH 2002

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

04/29/2002

Attention: Michelle Brown

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 03/19/2002
Chain Of Custody: 36395,36396

CLS ID No.: T6388
CLS Job No.: 846388

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
2	10 Days	Sulfite Analysis
2	10 Days	General Mineral
4	10 Days	4 Metals, by EPA Method 200.8
2	10 Days	Sulfide, EPA Method 376.2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
2	10 Days	Total Phosphorus, Standard Method 4500-P
2	10 Days	Chrome VI Analysis by IC, EPA Method 7199
2	10 Days	VOCs 8260/502.2
2	10 Days	Acrolein & Acrylonitrile, EPA 8316

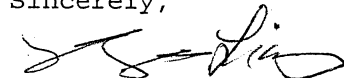
Analysis: Hexavalent Chromium
Due to instrument problems, the samples were analyzed outside of hold time.
There is no charge for this analysis.

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director



Sequoia
Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

March 25 , 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: NPDES / P203418

Enclosed are the results of analyses for samples received by the laboratory on 03/20/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Client Services Representative

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 6388
Project Manager: James Liang

Reported:
03/25/02 13:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	P203418-01	Water	03/19/02 14:00	03/20/02 08:15
Deer Creek	P203418-02	Water	03/19/02 13:30	03/20/02 08:15





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 6388
Project Manager: James Liang

Reported:
03/25/02 13:34

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (P203418-01) Water Sampled: 03/19/02 14:00 Received: 03/20/02 08:15									
Sulfite	ND	5.0	mg/l	1	2030499	03/20/02	03/20/02	EPA 377.1	
Deer Creek (P203418-02) Water Sampled: 03/19/02 13:30 Received: 03/20/02 08:15									
Sulfite	12	5.0	mg/l	1	2030499	03/20/02	03/20/02	EPA 377.1	





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 6388
Project Manager: James Liang

Reported:
03/25/02 13:34

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2030499 - General Preparation

Blank (2030499-BLK1)

Prepared & Analyzed: 03/20/02

Sulfite ND 5.0 mg/l

LCS (2030499-BS1)

Prepared & Analyzed: 03/20/02

Sulfite 91.0 5.0 mg/l 91.5 99 80-120

Matrix Spike (2030499-MS1)

Source: P203403-01

Prepared & Analyzed: 03/20/02

Sulfite 102 5.0 mg/l 102 ND 100 75-125

Matrix Spike Dup (2030499-MSD1)

Source: P203403-01

Prepared & Analyzed: 03/20/02

Sulfite 103 5.0 mg/l 102 ND 101 75-125 1 20





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 6388
Project Manager: James Liang

Reported:
03/25/02 13:34

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/19/2002
Date Reported: 04/09/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: W020319K
Instrument ID: INMIX
Analyst ID: SCOTT
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
2B / Effluent				
Hardness as CaCO ₃	N/A	87	1.0	1.0
Fluoride	N/A	0.084, J	0.10	1.0
Chloride	N/A	63	10	20
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	15	10	20
Sulfate	N/A	84	10	20
Methylene Blue Active Substances	N/A	0.19, J	0.50	1.0
pH	N/A	7.0	Note 1	1.0
Specific Conductance	N/A	730	Note 2	1.0
Total Dissolved Solids	N/A	480	1.0	1.0
3B / Deer Creek				
Hardness as CaCO ₃	N/A	180	1.0	1.0
Fluoride	N/A	0.094, J	0.10	1.0
Chloride	N/A	11	1.0	2.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.39, J	0.50	1.0
Sulfate	N/A	12	0.50	1.0
Methylene Blue Active Substances	N/A	ND	0.50	1.0
pH	N/A	8.5	Note 1	1.0
Specific Conductance	N/A	310	Note 2	1.0
Total Dissolved Solids	N/A	220	1.0	1.0

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: 03/21/2002
Date Analyzed: 03/25/2002
Date Reported: 04/09/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T6388-3F
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: M020321B
Instrument ID: IP004
Analyst ID: JAMESL
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	17,J	100	200.7	1.0
Be (Beryllium)	7440417	0.48,J	1.0	200.7	1.0
Fe (Iron)	7439896	38,J	100	200.7	1.0
Mn (Manganese)	7439965	2.2,J	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/18/2002
Date Received: 03/19/2002
Date Extracted: 03/21/2002
Date Analyzed: 03/25/2002
Date Reported: 04/09/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T6388-1A
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: M020321B
Instrument ID: IP004
Analyst ID: SCOTTF
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	0.8,J	100	200.7	1.0
Be (Beryllium)	7440417	0.38,J	1.0	200.7	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: 03/21/2002
Date Analyzed: 03/25/2002
Date Reported: 04/09/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T6388-2A
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: M020321B
Instrument ID: IP004
Analyst ID: SCOTTF
Matrix: WATER

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	0.29,J	1.0	200.7	1.0
Fe (Iron)	7439896	33,J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry 

Analysis Report: ^{Total Recoverable} Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: 03/21/2002
Date Analyzed: 03/25/2002
Date Reported: 04/09/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T6388-3A
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: M020321B
Instrument ID: IP004
Analyst ID: SCOTTF
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	15.7,J	100	200.7	1.0
Be (Beryllium)	7440417	0.39,J	1.0	200.7	1.0
Fe (Iron)	7439896	140	100	200.7	1.0
Mn (Manganese)	7439965	3.7,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/21/2002
Date Reported: 04/09/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: W020319K
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
2D / Effluent Sulfide	N/A	ND	1.0	1.0
3D / Deer Creek Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: 03/20/2002
Date Analyzed: 03/21/2002
Date Reported: 04/09/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395, 36396
Batch No.: W020319K
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
2C / Effluent				
Ammonia as Nitrogen	N/A	0.81	0.10	1.0
3C / Deer Creek				
Ammonia as Nitrogen	N/A	0.73	0.10	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: 03/20/2002
Date Analyzed: 03/21/2002
Date Reported: 04/09/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395, 36396
Batch No.: W020319K
Instrument ID: UV002
Analyst ID: SCOTT
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
2C / Effluent				
Total Phosphorus	N/A	2.2	0.50	10
3C / Deer Creek				
Total Phosphorus	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/21/2002
Date Reported: 03/25/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: IC020321A
Instrument ID: IC002
Analyst ID: SCOTTF
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2F / Effluent				
Hexavalent Chromium	N/A	ND	1.0	1.0
3F / Deer Creek				
Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/20/2002
Date Reported: 03/22/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T6388-2H
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: 32624
Instrument ID: MS05
Analyst ID: JENNDC
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	12.4	10.0	124	66	135
Toluene-d8 N/A	10.1	10.0	101	72	125
p-Bromofluorobenzene 460004	9.64	10.0	96	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	7.6	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	48	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	0.65	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	0.31 J	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/20/2002
Date Reported: 03/22/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T6388-2H
Job No.: 846388
COC Log No.: 36395, 36396
Batch No.: 32624
Instrument ID: MS05
Analyst ID: JENNDC
Matrix: WATER

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/20/2002
Date Reported: 03/22/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T6388-3H
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: 32624
Instrument ID: MS05
Analyst ID: JENNDNC
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	12.2	10.0	122	66	135
Toluene-d8 N/A	9.93	10.0	99	72	125
p-Bromofluorobenzene 460004	9.51	10.0	95	73	119

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	ND	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	ND	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	ND	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/20/2002
Date Reported: 03/22/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T6388-3H
Job No.: 846388
COC Log No.: 36395, 36396
Batch No.: 32624
Instrument ID: MS05
Analyst ID: JENNDC
Matrix: WATER

DEER CREEK (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/20/2002
Date Reported: 03/21/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: 32615
Instrument ID: GC016
Analyst ID: JENND
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2G / Effluent					
1-chloro-2-fluorobenzene 348-51-6	18.1	20.0	90	70	130
3G / Deer Creek					
1-chloro-2-fluorobenzene 348-51-6	18.6	20.0	93	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2G / Effluent				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0
3G / Deer Creek				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: Michelle Brown
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 03/19/2002
Date Received: 03/19/2002
Date Extracted: N/A
Date Analyzed: 03/20/2002
Date Reported: 03/21/2002

Lab Contact: James Liang
Lab ID No.: T6388
Job No.: 846388
COC Log No.: 36395,36396
Batch No.: 32622
Instrument ID: LC002
Analyst ID: JENNDG
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2G / Effluent				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0
3G / Deer Creek				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

73

AD

23

APRIL 2002

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

05/10/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 04/23/2002
Chain Of Custody: 3 PAGES

CLS ID No.: T7389
CLS Job No.: 847389

The following analyses were performed on the above referenced project:

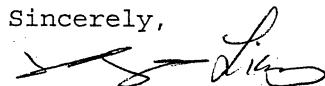
No. of Samples	Turnaround Time	Analysis Description
2	10 Days	Tributyltin by GC/FPD
2	10 Days	Sulfite Analysis
2	10 Days	General Mineral
4	10 Days	4 Metals, by EPA Method 200.8
2	10 Days	Sulfide & NO2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
2	10 Days	Total Phosphorus, Standard Method 4500-P
2	10 Days	Chrome VI Analysis by IC, EPA Method 7199
2	10 Days	VOCs by 8260/502.2
2	10 Days	Acrolein & Acrylonitrile, EPA 8316
2	10 Days	Asbestos Analysis

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

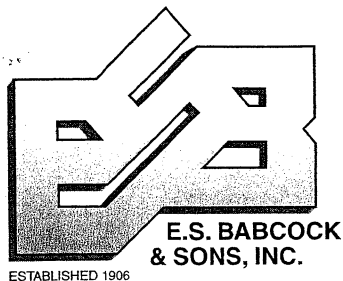
Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

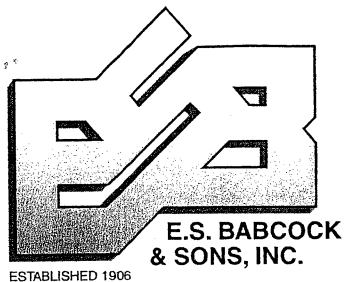
Analytical Report: Page 1 of 5
Project Name: Invoice Attn.
Project Number: CLS Job #T7389
Report Date: 06-May-2002

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date/Time Sampled</u>	<u>Date/Time Received</u>
A2D1273-01	Effluent Wastewater DC WWTP ERWQA	Liquid	04/23/02 12:50	04/25/02 08:15
A2D1273-02	Deer Creek Wastewater DC WWTP ERWQA	Liquid	04/23/02 13:15	04/25/02 08:15



Environmental Laboratory Certification #1156
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P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 2 of 5
Project Name: Invoice Attn.
Project Number: CLS Job #T7389
Report Date: 06-May-2002

Laboratory Reference Number
A2D1273-01

Sample Description
Effluent

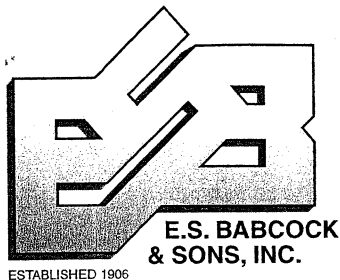
Matrix
Liquid

Sampled Date/Time
04/23/02 12:50

Received Date/Time
04/25/02 8:15

Analyte(s)	Result	*RDL	Units	Method	Analysis Date	Analyst	Flag
Miscellaneous Organic Compounds Tributyl tin	ND	10 ug/L		EV -024/025	05/02/02 14:42	rq	

Reportable Detection Limit



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 3 of 5
Project Name: Invoice Attn.
Project Number: CLS Job #T7389
Report Date: 06-May-2002

Laboratory Reference Number
A2D1273-02

Sample Description
Deer Creek

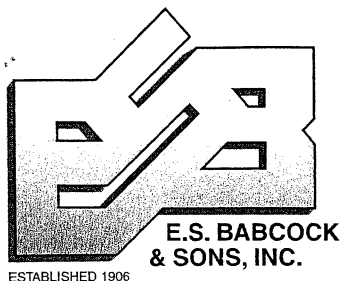
Matrix
Liquid

Sampled Date/Time
04/23/02 13:15

Received Date/Time
04/25/02 8:15

Analyte(s)	Result	*RDL	Units	Method	Analysis Date	Analyst	Flag
Miscellaneous Organic Compounds							
Tributyl tin	ND	10 ug/L		EV -024/025	05/02/02 14:44	rq	

*Reportable Detection Limit



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

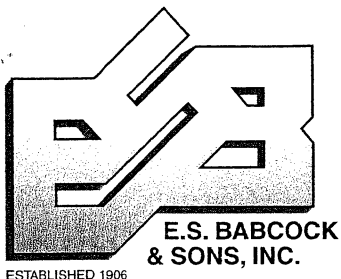
Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 4 of 5
Project Name: Invoice Attn.
Project Number: CLS Job #T7389
Report Date: 06-May-2002

Miscellaneous Organic Compounds - Batch Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 2D29038 - Tributyl Tin										
Blank (2D29038-BLK1)				Prepared: 05/01/02 Analyzed: 05/02/02						
Tributyl tin	ND	10 ug/L								
Duplicate (2D29038-DUP1)				Source: A2D1042-02 Prepared: 05/01/02 Analyzed: 05/02/02						
Tributyl tin	ND	10 ug/L			ND				20	

*Reportable Detection Limit



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova CA, 95742

Analytical Report: Page 5 of 5
Project Name: Invoice Attn.
Project Number: CLS Job #T7389
Report Date: 06-May-2002

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (RDL)
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

☒ James K. Babcock
President

☐ Allison Mackenzie
Lab Manager

☐ Lawrence J. Chrystal
Lab Director

cc:

CLS - I

CHAIN OF CUSTODY

CLS ID No.;

LOG NO.

484

REPORT TO:

CLS LABS

NAME AND ADDRESS

3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

CLIENT JOB NUMBER

T7389

DESTINATION LABORATORY

☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA
95742☒ OTHER

BARCODE

PROJECT MANAGER
JAMES LIANG (800) 638-7301
PROJECT NAME
DE WWTTP ERWQA

SAMPLED BY

JOB DESCRIPTION

SITE LOCATION

DATE TIME SAMPLE IDENTIFICATION MATRIX NO. TYPE

4/23/02 EFFLUENT H₂O 2 AL

I Deer Creek I 2 AL

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES: (1) HCL
(2) HNO₃(3) = COLD
(4)

RELINQUISHED BY (SIGN)

PRINT NAME / COMPANY

DATE / TIME

RECEIVED BY (SIGN)

PRINT NAME / COMPANY

MARK SMITH KCS

4/24/02 0900

COURIER

4/25/02 8:15 Angie Brown

Angie Brown / ESB

RECD AT LAB BY:

DATE / TIME:

CONDITIONS / COMMENTS:

12°C

SHIPPED BY:

☐ FED X☐ UPS☒ OTHER

650

AIR BILL #

LAB FILE COPY



Sequoia
Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

May 01, 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: General / P204499

Enclosed are the results of analyses for samples received by the laboratory on 04/24/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Client Services Representative

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T7389
Project Manager: James Liang

Reported:
05/01/02 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	P204499-01	Water	04/23/02 12:00	04/24/02 09:00
Deer Creek	P204499-02	Water	04/23/02 12:00	04/24/02 09:00

Samples were received at 12.9 degrees Centigrade.





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T7389
Project Manager: James Liang

Reported:
05/01/02 14:27

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (P204499-01) Water Sampled: 04/23/02 12:00 Received: 04/24/02 09:00									
Sulfite	ND	5.0	mg/l	1	2040609	04/24/02	04/24/02	EPA 377.1	
Deer Creek (P204499-02) Water Sampled: 04/23/02 12:00 Received: 04/24/02 09:00									
Sulfite	ND	5.0	mg/l	1	2040609	04/24/02	04/24/02	EPA 377.1	





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T7389
Project Manager: James Liang

Reported:
05/01/02 14:27

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2040609 - General Preparation

Blank (2040609-BLK1)

Prepared & Analyzed: 04/24/02

Sulfite	ND	5.0	mg/l
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LCS (2040609-BS1)

Prepared & Analyzed: 04/24/02

Sulfite	60.0	5.0	mg/l	60.5	99	80-120
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Matrix Spike (2040609-MS1)

Source: P204499-01

Prepared & Analyzed: 04/24/02

Sulfite	70.0	5.0	mg/l	67.2	ND	104	75-125
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Matrix Spike Dup (2040609-MSD1)

Source: P204499-01

Prepared & Analyzed: 04/24/02

Sulfite	72.2	5.0	mg/l	67.2	ND	107	75-125	3	20
---------	------	-----	------	------	----	-----	--------	---	----





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T7389
Project Manager: James Liang

Reported:
05/01/02 14:27

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



3478

REPORT TO:					
NAME AND ADDRESS		CLIENT JOB NUMBER			
CLL LABS 3249 Fitzgerald Rd. Rancho Cordova, CA 95742		T73891			
PROJECT NAME		DESTINATION LABORATORY			
James Liang C-106 638-7301		CLS (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742			
SAMPLE BY		OTHER			
DCWTP ERWDN		Sequon			
JOB DESCRIPTION					
SITE LOCATION					
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE
4/23/02	/	Effluent	NW	1	256 B
4/23/02	-	Deer Creek	FW	1	250 B
COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ COOLER TEMPERATURE 12.9 °C					
SUSPECTED CONSTITUENTS					
SMH500 Sulfite					
PRESERVATIVES					
ANALYSIS REQUESTED					
FIELD CONDITIONS:					
COMPOSITE:					
TURN AROUND TIME SPECIAL INSTRUCTIONS					
1 DAY					
2 DAY					
5 DAY					
10 DAY					
INVOICE TO:					
PO #					
QUOTE #					
(3) = COLD (4)					
PRINT NAME / COMPANY					
RECEIVED BY (SIGN)					
DATE / TIME					
CONDITIONS / COMMENTS:					
AIR BILL #					

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/23/2002
Date Reported: 05/10/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: W020423E
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1G / Effluent				
Hardness as CaCO ₃	N/A	79	1.0	1.0
Fluoride	N/A	0.19	0.10	1.0
Chloride	N/A	65	10	20
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	18	10	20
Sulfate	N/A	81	10	20
Methylene Blue Active Substances	N/A	0.19, J	0.50	1.0
pH	N/A	7.4	Note 1	1.0
Specific Conductance	N/A	780	Note 2	1.0
Total Dissolved Solids	N/A	530	1.0	1.0
2G / Deer Creek				
Hardness as CaCO ₃	N/A	220	1.0	1.0
Fluoride	N/A	ND	0.10	1.0
Chloride	N/A	11	1.0	2.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.29, J	0.50	1.0
Sulfate	N/A	14	0.50	1.0
Methylene Blue Active Substances	N/A	ND	0.50	1.0
pH	N/A	8.7	Note 1	1.0
Specific Conductance	N/A	390	Note 2	1.0
Total Dissolved Solids	N/A	260	1.0	1.0

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: T7389-1F
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: M020425B
Instrument ID: IP004
Analyst ID: PONGC
Matrix: WW

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: 04/25/2002
Date Analyzed: 05/04/2002
Date Reported: 05/07/2002
Client ID No.: Effluent

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	4.2, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	15, J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: 04/25/2002
Date Analyzed: 05/04/2002
Date Reported: 05/07/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T7389-2F
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: M020425B
Instrument ID: IP004
Analyst ID: PONGC
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	16, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	85, J	100	200.7	1.0
Mn (Manganese)	7439965	4.5, J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Dissolved

Environmental
Chemistry



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: 04/25/2002
Date Analyzed: 05/04/2002
Date Reported: 05/07/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T7389-2K
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: M020425B
Instrument ID: IP004
Analyst ID: PONGC
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	15, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	50, J	100	200.7	1.0
Mn (Manganese)	7439965	3.1, J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: 04/25/2002
Date Analyzed: 05/04/2002
Date Reported: 05/07/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T7389-3A
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: M020425B
Instrument ID: IP004
Analyst ID: PONGC
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/25/2002
Date Reported: 05/07/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: W020423E
Instrument ID: NONE
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1I / Effluent Sulfide	N/A	ND	1.0	1.0
2I / Deer Creek Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: 04/26/2002
Date Analyzed: 04/29/2002
Date Reported: 05/07/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: W020423E
Instrument ID: UV002
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1H / Effluent				
Ammonia as Nitrogen	N/A	0.27	0.10	1.0
2H / Deer Creek				
Ammonia as Nitrogen	N/A	0.18	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: 04/26/2002
Date Analyzed: 04/26/2002
Date Reported: 05/07/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: W020423E
Instrument ID: UV002
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1H / Effluent				
Total Phosphorus	N/A	2.9	0.50	10
2H / Deer Creek				
Total Phosphorus	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/24/2002
Date Reported: 04/26/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: IC1020424
Instrument ID: IC001
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1B / Effluent				
Hexavalent Chromium	N/A	ND	1.0	1.0
2B / Deer Creek				
Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/24/2002
Date Reported: 04/26/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T7389-1D
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: 32812
Instrument ID: MS05
Analyst ID: JENND
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	11.3	10.0	113	66	135
Toluene-d8 N/A	10.5	10.0	105	72	125
p-Bromofluorobenzene 460004	10.2	10.0	102	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	9.7	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	0.53 J	2.0	1.0
Chloroform	67663	61	0.50	1.0
Chloromethane	74873	0.45 J	0.50	1.0
Dibromochloromethane	124481	0.83	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/24/2002
Date Reported: 04/26/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: T7389-1D
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: 32812
Instrument ID: MS05
Analyst ID: JENNDG
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	13	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/24/2002
Date Reported: 04/26/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T7389-2D
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: 32812
Instrument ID: MS05
Analyst ID: JENNDNC
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	11.5	10.0	115	66	135
Toluene-d8 N/A	10.3	10.0	103	72	125
p-Bromofluorobenzene 460004	10.4	10.0	104	73	119

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	ND	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	ND	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	ND	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: T7389-2D
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: 32812
Instrument ID: MS05
Analyst ID: JENNDNC
Matrix: WATER

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/24/2002
Date Reported: 04/26/2002
Client ID No.: Deer Creek

DEER CREEK (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/26/2002
Date Reported: 04/30/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: 32816
Instrument ID: GC016
Analyst ID: WAIW
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1C / Effluent					
1-chloro-2-fluorobenzene 348-51-6	20.0	20.0	100	70	130
2C / Deer Creek					
1-chloro-2-fluorobenzene 348-51-6	20.1	20.0	100	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0
2C / Deer Creek				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 04/23/2002
Date Received: 04/23/2002
Date Extracted: N/A
Date Analyzed: 04/24/2002
Date Reported: 04/24/2002

Lab Contact: James Liang
Lab ID No.: T7389
Job No.: 847389
COC Log No.: 3 PAGES
Batch No.: 32809
Instrument ID: LC002
Analyst ID: JENNDG
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0
2C / Deer Creek				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Westmont, NJ
(908) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Wednesday, May 8, 2002

California Laboratory Services
324 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: T7389
Attention: James Liang
Ref Number: CA021875
Date Sampled: 04-23-02
Date Filtered: 04-24-02
Date Analyzed: 05-06-02

Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
"Determination of Asbestos Structures Over 10 μ m In Length
in Drinking Water"; by Brackett, Clark & Millette

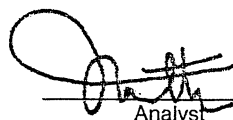
SAMPLE ID	#ASBESTOS STRUCTURES >10 μ m	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10 μ m	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 μ m	DETECTION LIMIT (MFL)
Effluent**	0	0	None Detected	<0.20	0-0.73	0.20
Deer Creek**	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

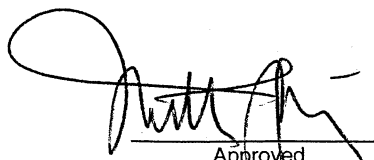
*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

**Samples were received above required 4 degrees Celsius (or below). This may have affected the analytical result.


Analyst


Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620

LOG NO. 3482

GV I

CLS - 1

CHAIN OF CUSTODY

CLS ID No.: T7384


LOG NO. 3305


REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:			
NAME AND ADDRESS				DESTINATION LABORATORY		PRESERVATIVES		TURN AROUND TIME		SPECIAL INSTRUCTIONS	
Robertson-Bryan, Inc.				EID-154		5M4500-503 - Sulfite		1 Day		NPDES Reporting Limits	
9706 Waterman Rd., Suite 12				CLS (916) 638-7301		7199 - Chromium VI		2 Day		5-Flags	
F/R Grove, CA 95624				3249 FITZGERALD RD.		5022-2-Chloroethylvinylether		5 Day			
PROJECT MANAGER David Thomas 916-714-1805				RANCHO CORDOVA, CA. 95742		8260 B - Volatile Organics		10 Day			
PROJECT NAME Deer Creek WWTP ERWA A				<input type="checkbox"/> OTHER		8316 - Acrolein & Acrylonitrile					
SAMPLED BY David Thomas											
JOB DESCRIPTION Creek & Effluent Sampling											
SITE LOCATION Deer Creek WWTP											
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	NO.	TYPE	SAMPLE RETENTION TIME		PRESERVATIVES:			
4/23/02	12:50pm	Effluent	WW	1	20mLP			(1) HCL (2) HNO ₃			
4/23/02	1:15pm	Deer Creek	FW	1	20mLP			(3) = COLD (4)			
4/23/02	12:30pm	Effluent	WW	1	50mLP						
4/23/02	1:15pm	Deer Creek	FW	1	20mLP						
4/23/02	12:50pm	Effluent	WW	2	VOA						
4/23/02	1:15pm	Deer Creek	FW	2	VOA						
4/23/02	12:50pm	Effluent	WW	2	VOA						
4/23/02	1:15pm	Deer Creek	FW	2	VOA						
4/23/02	12:50pm	Effluent	WW	3	VOA						
4/23/02	1:15pm	Deer Creek	FW	3	VOA						
4/23/02	12:50pm	Effluent	WW	1	1-LA						
4/23/02	1:15pm	Deer Creek	FW	1	1-LA						
SUSPECTED CONSTITUENTS						RECEIVED BY (SIGN)		PRINT NAME / COMPANY			
David Thomas						David Thomas/RBI		4/23/02 2:00pm			
RECEIVED BY (SIGN)						DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
David Thomas						4/23/02		David Thomas		David Thomas	
SHIPPED BY:						DATE / TIME		CONDITIONS / COMMENTS:		AIR BILL #	
David Thomas						4/23/02		1400		OTHER Personally Delivered	
FED X						UPS					

399

LAB

LOG NO. 5872

REC'D AT LAB BY: 

SHIPPED BY:  ☐ F

MAY 2002



Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

06/26/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 05/21/2002
Chain Of Custody: 33392,49,90,94

CLS ID No.: T8130
CLS Job No.: 848130

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
2	10 Days	Glyphosate Analysis
2	10 Days	2BEHA by 506
2	10 Days	Sulfite
2	10 Days	General Mineral
4	10 Days	4 Metals, by EPA Method 200.8
2	10 Days	Sulfide & NO2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
2	10 Days	EPA Method 548.1
2	10 Days	EPA Method 549.1
2	10 Days	Carbamate and Urea Pesticides, EPA 632
2	10 Days	Total Phosphorus, Standard Method 4500-P
2	10 Days	Chrome VI Analysis by IC, EPA Method 7199
2	10 Days	Ethylene Dibromide, EPA Method 504
2	10 Days	OC1-Pest, EPA 8081A
2	10 Days	Organophosphorus Pesticides by GC-NPD
2	10 Days	Chlorinated Acid Herbicides
2	10 Days	VOCs by 8260/502.2
2	10 Days	SVOCs by 8270/610
2	10 Days	Acrolein & Acrylonitrile, EPA 8316

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

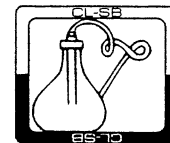


Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Lab Job M23980X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916) 638-7301

Project: Client Job No. T8130

Lab Contact:
Job No.:
COC Log No.:
Lab ID No.: M23980X-1A
Batch No.:
Instrument ID: VAR
Analyst ID: ORG1STAFF
Matrix: WATER

Sampled By: NOT LISTED
Date Sampled: 05/21/02 00:00:00
Date Received: 05/22/02 17:00:00
Date Started: 05/23/02
Date Completed: 06/04/02
Date Reported: 06/18/02 08:44:31

Sample: EFFLUENT

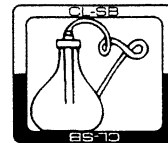
Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di(2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547
Diethylhexylphthalate (DEHP)	117-81-7	ND	3.0	EPA 506

ND = Not detected at or above indicated DLR; Detection Limit for Reporting

Manager: _____

Director: _____

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Lab Job M23980X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916) 638-7301

Project: Client Job No. T8130

Lab Contact:
Job No.:
COC Log No.:
Lab ID No.: M23980X-2A
Batch No.:
Instrument ID: VAR
Analyst ID: ORG1STAFF
Matrix: WATER

Sampled By: NOT LISTED
Date Sampled: 05/21/02 00:00:00
Date Received: 05/22/02 17:00:00
Date Started: 05/23/02
Date Completed: 06/04/02
Date Reported: 06/18/02 08:44:31

Sample: DEER CREEK

Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di(2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547
Diethylhexylphthalate (DEHP)	117-81-7	ND	3.0	EPA 506

ND = Not detected at or above indicated DLR; Detection Limit for Reporting

Manager: _____

Director: _____

CLS-1's

CHAIN OF CUSTODY

CLSID No.:

LOG NO.

354

[illegible]



Sequoia
Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

May 31 , 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: General / P205417

Enclosed are the results of analyses for samples received by the laboratory on 05/22/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Client Services Representative

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T8130
Project Manager: James Liang

Reported:
05/31/02 19:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	P205417-01	Water	05/21/02 11:40	05/22/02 09:30
Deer Creek	P205417-02	Water	05/21/02 12:15	05/22/02 09:30

Samples received at 12.2 degrees C.





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T8130
Project Manager: James Liang

Reported:
05/31/02 19:17

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (P205417-01) Water Sampled: 05/21/02 11:40 Received: 05/22/02 09:30									
Sulfite	17	5.0	mg/l	1	2050615	05/22/02	05/22/02	EPA 377.1	
Deer Creek (P205417-02) Water Sampled: 05/21/02 12:15 Received: 05/22/02 09:30									
Sulfite	ND	5.0	mg/l	1	2050615	05/22/02	05/22/02	EPA 377.1	





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T8130
Project Manager: James Liang

Reported:
05/31/02 19:17

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050615 - General Preparation

Blank (2050615-BLK1)

Prepared & Analyzed: 05/22/02

Sulfite	ND	5.0	mg/l
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LCS (2050615-BS1)

Prepared & Analyzed: 05/22/02

Sulfite	81.0	5.0	mg/l	72.5	112	80-120
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Matrix Spike (2050615-MS1)

Source: P205420-02

Prepared & Analyzed: 05/22/02

Sulfite	84.4	5.0	mg/l	80.6	ND	105	75-125
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Matrix Spike Dup (2050615-MSD1)

Source: P205420-02

Prepared & Analyzed: 05/22/02

Sulfite	85.6	5.0	mg/l	80.6	ND	106	75-125	1	20
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CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T8130
Project Manager: James Liang

Reported:
05/31/02 19:17

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



LOG NO. 452

AIR BILL #

CONDITIONS / COMMENTS:

AIR BILL #

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/21/2002
Date Reported: 06/04/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: W020521N
Instrument ID: INMIX
Analyst ID: SCOTTFF
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / EFFLUENT				
Hardness as CaCO ₃	N/A	130	1.0	1.0
Fluoride	N/A	0.20	0.10	1.0
Chloride	N/A	65	5.0	10
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	19	5.0	10
Sulfate	N/A	85	5.0	10
Methylene Blue Active Substances	N/A	0.16, J	0.50	1.0
pH	N/A	7.1	Note 1	1.0
Specific Conductance	N/A	730	Note 2	1.0
Total Dissolved Solids	N/A	520	1.0	1.0
2A / DEER CREEK				
Hardness as CaCO ₃	N/A	71	1.0	1.0
Fluoride	N/A	0.19	0.10	1.0
Chloride	N/A	7.4	0.50	1.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	.46, J	0.50	1.0
Sulfate	N/A	8.3	0.50	1.0
Methylene Blue Active Substances	N/A	0.025, J	0.50	1.0
pH	N/A	8.1	Note 1	1.0
Specific Conductance	N/A	230	Note 2	1.0
Total Dissolved Solids	N/A	190	1.0	1.0

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/29/2002
Date Reported: 06/04/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2M
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: M020522A
Instrument ID: IP004
Analyst ID: SCOTTF
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	12.1,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	190	100	200.7	1.0
Mn (Manganese)	7439965	4.3,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/29/2002
Date Reported: 06/26/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-1F
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: M020522A
Instrument ID: IP004
Analyst ID: SCOTTF
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	2.4,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	21,J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/29/2002
Date Reported: 06/26/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2F
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: M020522A
Instrument ID: IP004
Analyst ID: SCOTTFF
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	12.1,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	590	100	200.7	1.0
Mn (Manganese)	7439965	13.5,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/20/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/29/2002
Date Reported: 06/26/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T8130-3A
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: M020522A
Instrument ID: IP004
Analyst ID: SCOTTF
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/21/2002
Date Reported: 06/04/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: W020521M
Instrument ID:
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / EFFLUENT Sulfide	N/A	5.8	1.0	1.0
2E / DEER CREEK Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. 12
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/23/2002
Date Reported: 06/04/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: W020521N
Instrument ID: UV002
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1D / EFFLUENT Ammonia as Nitrogen	N/A	0.81	0.10	1.0
2D / DEER CREEK Ammonia as Nitrogen	N/A	0.55	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Carbamate and Urea Pesticides, EPA Method 632

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/28/2002
Date Analyzed: 05/29/2002
Date Reported: 05/31/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03189
Instrument ID: LC001
Analyst ID: JENNDG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1I / EFFLUENT				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0
2I / DEER CREEK				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/21/2002
Date Reported: 06/04/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: W020521M
Instrument ID: UV002
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1D / EFFLUENT Total Phosphorus	N/A	3.2	0.50	10
2D / DEER CREEK Total Phosphorus	N/A	0.064	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/21/2002
Date Reported: 05/22/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: IC102020521
Instrument ID: IC001
Analyst ID: ANDORAB
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1B / EFFLUENT				
Hexavalent Chromium	N/A	ND	1.0	1.0
2B / DEER CREEK				
Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: EDB and DBCP, EPA Method 504

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/22/2002
Date Reported: 05/23/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03172
Instrument ID: PGC05
Analyst ID: NGOCDUNG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1G / EFFLUENT				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0
2G / DEER CREEK				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organochlorine Pesticides, EPA Method 8081A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/23/2002
Date Analyzed: 05/24/2002
Date Reported: 05/30/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-1I
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03176
Instrument ID: GC022
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.187	0.250	75	43	147
Decachlorobiphenyl 2051243	0.0243	0.250	10	43	139

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	ND	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	ND	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organochlorine Pesticides, EPA Method 8081A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/23/2002
Date Analyzed: 05/24/2002
Date Reported: 05/30/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2I
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03176
Instrument ID: GC022
Analyst ID: NGOC DUNG
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.208	0.250	83	43	147
Decachlorobiphenyl 2051243	0.0446	0.250	18	43	139

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	ND	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	ND	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/23/2002
Date Analyzed: 06/07/2002
Date Reported: 06/11/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-II
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03176
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	ND	1.0	1.0
Atrazine	1912249	2.2	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	1.4 (J)	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/23/2002
Date Analyzed: 06/07/2002
Date Reported: 06/11/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2I
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03176
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	1.9	1.0	1.0
Atrazine	1912249	1.2	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	ND	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/23/2002
Date Analyzed: 06/06/2002
Date Reported: 06/07/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-11
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03181
Instrument ID: PGC05
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	0.270	0.250	108	50	150

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	1.0	1.0
Silvex (2,4,5-TP)	93721	ND	1.0	1.0
Dalapon	75990	ND	2.0	1.0
Dinoseb	88857	ND	1.0	1.0
Bentazon	25057890	ND	2.0	1.0
Picloram	1918021	ND	1.0	1.0
Pentachlorophenol	87865	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/23/2002
Date Analyzed: 06/06/2002
Date Reported: 06/07/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2I
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03181
Instrument ID: PGC05
Analyst ID: NGOCDUNG
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	0.400	0.250	160 (MA)	50	150


MA = Recovery data is outside standard QC limits due to matrix interference. LCS recovery data validates methodology.

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	1.0	1.0
Silvex (2,4,5-TP)	93721	ND	1.0	1.0
Dalapon	75990	ND	2.0	1.0
Dinoseb	88857	ND	1.0	1.0
Bentazon	25057890	ND	2.0	1.0
Picloram	1918021	ND	1.0	1.0
Pentachlorophenol	87865	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry 

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 06/04/2002
Date Reported: 06/05/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-1G
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: 33008
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	12.4	10.0	124	66	135
Toluene-d8 N/A	10.7	10.0	107	72	125
p-Bromofluorobenzene 460004	9.28	10.0	93	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	8.5	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	49	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	0.68	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 06/04/2002
Date Reported: 06/05/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-1G
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: 33008
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 06/04/2002
Date Reported: 06/05/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2G
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: 33008
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WATER

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	13.3	10.0	133	66	135
Toluene-d8 N/A	10.6	10.0	106	72	125
p-Bromofluorobenzene 460004	9.45	10.0	95	73	119

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	ND	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	0.39 J	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	ND	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

800-638-7301

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 06/04/2002
Date Reported: 06/05/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2G
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: 33008
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WATER

DEER CREEK (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/23/2002
Date Reported: 05/23/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: 32951
Instrument ID: GC016
Analyst ID: JENNDG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1H / EFFLUENT					
1-chloro-2-fluorobenzene 348-51-6	20.3	20.0	102	70	130
2H / DEER CREEK					
1-chloro-2-fluorobenzene 348-51-6	20.3	20.0	101	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0
2H / DEER CREEK				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/23/2002
Date Reported: 06/04/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-II
Job No.: 848130
COC Log No.: 33392, 49, 90, 94
Batch No.: E03175
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

SURROGATE

Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	30.2	75.0	40	21	110
Phenol-d5	4165622	19.7	75.0	26	10	110
Nitrobenzene-d5	4665600	43.5	50.0	87	35	114
2-Fluorobiphenyl	321608	48.2	50.0	96	43	116
2,4,6-Tribromophenol	118796	66.3	75.0	88	10	123
Terphenyl-d14	98904439	46.8	50.0	94	33	141

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl)ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl)ether	108601	ND	10	1.0
Bis(2-ethylhexyl)phthalate	117817	ND	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/23/2002
Date Reported: 06/04/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-1I
Job No.: 848130
COC Log No.: 33392, 49, 90, 94
Batch No.: E03175
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/23/2002
Date Reported: 06/04/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2I
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03175
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WATER

SURROGATE

Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	32.8	75.0	44	21	110
Phenol-d5	4165622	24.1	75.0	32	10	110
Nitrobenzene-d5	4665600	46.2	50.0	92	35	114
2-Fluorobiphenyl	321608	47.1	50.0	94	43	116
2,4,6-Tribromophenol	118796	69.1	75.0	92	10	123
Terphenyl-d14	98904439	47.4	50.0	95	33	141

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl)ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl)ether	108601	ND	10	1.0
Bis(2-ethylhexyl)phthalate	117817	ND	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/23/2002
Date Reported: 06/04/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2I
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03175
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WATER

DEER CREEK(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: BID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/23/2002
Date Reported: 05/24/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8130-II
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: E03174
Instrument ID: LC002
Analyst ID: JENNDNC
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.20	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo(a)anthracene	56553	ND	0.20	1.0
Benzo(a)pyrene	50328	ND	0.10	1.0
Benzo(b)fluoranthene	205992	ND	0.20	1.0
Benzo(g,h,i)perylene	191242	ND	0.20	1.0
Benzo(k)fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo(a,h)anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno(1,2,3-c,d)pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: 05/22/2002
Date Analyzed: 05/23/2002
Date Reported: 05/24/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8130-2I
Job No.: 848130
COC Log No.: 33392, 49, 90, 94
Batch No.: E03174
Instrument ID: LC002
Analyst ID: JENNDG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.20	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo(a)anthracene	56553	ND	0.20	1.0
Benzo(a)pyrene	50328	ND	0.10	1.0
Benzo(b)fluoranthene	205992	ND	0.20	1.0
Benzo(g,h,i)perylene	191242	ND	0.20	1.0
Benzo(k)fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo(a,h)anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno(1,2,3-c,d)pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 05/21/2002
Date Received: 05/21/2002
Date Extracted: N/A
Date Analyzed: 05/22/2002
Date Reported: 05/23/2002

Lab Contact: James Liang
Lab ID No.: T8130
Job No.: 848130
COC Log No.: 33392,49,90,94
Batch No.: 32946
Instrument ID: LC002
Analyst ID: JENNDG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0
2H / DEER CREEK				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS - 1 bs

CHAIN OF CUSTODY

CLS ID No.: 78132

LOG NO. 3390

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:					
NAME AND ADDRESS				DESTINATION LABORATORY		PRESERVATIVES		TURN AROUND TIME				SPECIAL INSTRUCTIONS	
9700 Waterman Rd. Suite L2 Elk Grove, CA 95624 PROJECT MANAGER David Thomas (916) 714-1825 PROJECT NAME Dawn TP ERWAT SAMPLED BY David Thomas JOB DESCRIPTION Effluent & Creek Sampling SITE LOCATION				CLC (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742 <input type="checkbox"/> OTHER		(Ca, Be, Fe, Mn, Ni) 200.8 Metals (Total Recoverable) (Ca, Be, Fe, Mn, Ni) 200.8 Metals (Dissolved) 376.2 Sulfide 36.5.2 Total P 380.2 Ammonia 7199 Chromium III		1 DAY 2 DAY 5 DAY 10 DAY				NPDES/SIP Reporting Limits J-Flags	
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE	SAMPLE RETENTION TIME				PRESERVATIVES:		QUOTE #	
5/20/02	11:30	Blank	RW	1	500ml-P	2							
5/21/02	11:40	Effluent	WW	1	500ml-P	2							
5/21/02	12:15	Deer Creek	FW	1	500ml-P	2							
5/21/02	12:15	Deer Creek	FW	1	500ml-P								
5/21/02	11:40	Effluent	WW	1	250ml-P								
5/21/02	12:15	Deer Creek	FW	1	250ml-P								
5/21/02	11:40	Effluent	WW	1	250ml-P	4							
5/21/02	12:15	Deer Creek	FW	1	250ml-P	4							
5/21/02	11:40	Effluent	WW	1	500ml-P	11524							
5/21/02	12:15	Deer Creek	FW	1	500ml-P	11524							
5/21/02	11:40	Effluent	WW	1	500ml-P								
5/21/02	12:15	Deer Creek	FW	1	500ml-P								
5/21/02	11:40	Effluent	WW	1	500ml-P								
5/21/02	12:15	Deer Creek	FW	1	500ml-P								

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
David Thomas	David Thomas (RBI)	5/21/02 2:45		

RECD AT LAB BY:	DATE / TIME:	CONDITIONS / COMMENTS:
		052102 1495

SHIPPED BY:	DATE / TIME:	AIR BILL #

CLS-155

03

CLS - 1 bs

CHAIN OF CUSTODY

CLS ID No.:

78130

LOG NO.

349

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:			
NAME AND ADDRESS				DESTINATION LABORATORY							
9766 Waterman Rd., Suite L2				CLC (916) 638-7301		8081A OC Pesticides					
ELK Grove, CA 95624				3249 FITZGERALD RD.		632 Carbamates					
PROJECT MANAGER: David Thomas (916) 714-1805				RANCHO CORDOVA, CA. 95742		610 PAHS					
PROJECT NAME: Deer Creek WTP ERW04						548.1 Endothall					
SAMPLED BY: David Thomas						547 Glyphosate					
JOB DESCRIPTION: Effluent & Creek Sampling						506 D-(2-ethylhexyl) adipate					
SITE LOCATION				CONTAINER		PRESERVATIVES		TURN AROUND TIME			
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	NO.	TYPE			1 DAY	2 DAY	5 DAY	10 DAY
5/21/02	11:45	Effluent	WW	1	1-LA						
5/21/02	12:45	Deer Creek	FW	1	1-LA						
5/21/02	11:45	Effluent	WW	1	1-LA						
5/21/02	12:45	Deer Creek	FW	1	1-LA						
5/21/02	11:45	Effluent	WW	1	1-LA						
5/21/02	12:45	Deer Creek	FW	1	1-LA						
5/21/02	11:45	Effluent	WW	1	1-LA						
5/21/02	12:45	Deer Creek	FW	1	1-LA						
5/21/02	11:45	Effluent	WW	1	1-LA						
5/21/02	12:15	Deer Creek	FW	2	1-LA						
5/21/02	11:45	Effluent	WW	2	1-LA						
5/21/02	12:15	Deer Creek	FW	2	1-LA						
SUSPECTED CONSTITUENTS						SAMPLE RETENTION TIME		PRESERVATIVES: (1) HCL (2) HNO ₃		(3) = COLD (4)	
RELINQUISHED BY (SIGN)						DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
David Thomas						5/21/02 2:45		David Thomas / RB1			
RECD AT LAB BY:						DATE / TIME:		CONDITIONS / COMMENTS:			
SHIPPED BY:						DATE / TIME:		AIR BILL #			
David Thomas						5/21/02 144J		052102 144J			

LAB


REPORT TO:

NAME AND ADDRESS
Robertson-Brynn, Inc.
9766 Waterman Rd., Suite L2
Elk Grove, CA 95624
PROJECT MANAGER David Thomas (916) 714-1825
PROJECT NAME DWWTP ERWQA
SAMPLED BY David Thomas
JOB DESCRIPTION Effluent & Cree R Sampling

SITE LOCATION

DATE	TIME	SAMPLE IDENTIFICATION	CONTAINER	
			MATRIX	NO. TYPE
5/21/02	11:40	Effluent	WW	1 1-LP
5/21/02	12:15	Deer Creek	FW	1 1-LP
5/21/02	11:30	Effluent	WW	2 VOA
5/21/02	12:15	Deer Creek	FW	2 VOA
5/21/02	11:30	Effluent	WW	2 VOA
5/21/02	12:15	Deer Creek	FW	2 VOA
5/21/02	11:30	Effluent	WW	2 VOA
5/21/02	12:15	Deer Creek	FW	2 VOA
5/21/02	11:30	Effluent	WW	3 VOA
5/21/02	12:15	Deer Creek	FW	3 VOA
5/21/02	11:40	Effluent	WW	1 1-LP
5/21/02	12:15	Deer Creek	FW	1 1-LP

SUSPECTED CONSTITUENTS

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
David Thomas	David Thomas/KBI	5/21/02 2:45		
RECD AT LAB BY:  DATE / TIME: 052102 1445				
SHIPPED BY: <input type="checkbox"/> FEDX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER	AIR BILL #			

ANALYSIS REQUESTED

500.2-2-Chloroethyl vinyl ether
83/6 Acetone & Acrylonitrile
83/4 EDB & DBCP
83/0 B Volatile Organics
549.1 Digest

PRESERVATIVES

☐ OTHER

TURN AROUND TIME

1 DAY 2 DAY 5 DAY 10 DAY

NADES/SIP Reporting Limits

J-Flags

INVOICE TO:

PO #

QUOTE #

(3) = COLD (4)

PRESERVATIVES: (1) HCL (2) HNO3

SAMPLE RETENTION TIME

LAB

JUNE 2002



Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

07/31/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID 154
Date Received: 06/18/2002
Chain Of Custody: 36628

CLS ID No.: T8850
CLS Job No.: 848850

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Sulfite Analysis
2	10 Days	General Mineral
4	10 Days	4 Metals, by EPA Method 200.8
1	10 Days	Sulfide & NO2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	VOCs by 8260/502.2
1	10 Days	Acrolein & Acrylonitrile, EPA 8316
1	10 Days	Asbestos Analysis

Analysis: Tributyl tin

Due to contamination, the sub-out laboratory is re-analyzing the sample. The hard copy results and invoice will be sent subsequent to this report.

Analysis: Sulfite

The hard copy results will be sent subsequent to this report.

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director



Sequoia
Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

July 01 , 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: General / P206351



Enclosed are the results of analyses for samples received by the laboratory on 06/19/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T 8850
Project Manager: James Liang

Reported:
07/01/02 17:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	P206351-01	Water	06/18/02 15:05	06/19/02 09:15





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T 8850
Project Manager: James Liang

Reported:
07/01/02 17:10

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Effluent (P206351-01) Water Sampled: 06/18/02 15:05 Received: 06/19/02 09:15										
Sulfite	6.0	5.0	mg/l	1	2060536	06/19/02	06/19/02	EPA 377.1		





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T 8850
Project Manager: James Liang

Reported:
07/01/02 17:10

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2060536 - General Preparation

Blank (2060536-BLK1)

Prepared & Analyzed: 06/19/02

Sulfite	ND	5.0	mg/l
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LCS (2060536-BS1)

Prepared & Analyzed: 06/19/02

Sulfite	65.0	5.0	mg/l	65.5	99	80-120
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Matrix Spike (2060536-MS1)

Source: P206351-01

Prepared & Analyzed: 06/19/02

Sulfite	67.5	5.0	mg/l	65.5	6.0	94	75-125
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Matrix Spike Dup (2060536-MSD1)

Source: P206351-01

Prepared & Analyzed: 06/19/02

Sulfite	69.3	5.0	mg/l	65.5	6.0	97	75-125	3	20
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CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: T 8850
Project Manager: James Liang

Reported:
07/01/02 17:10

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



3869

REPORT TO:				FIELD CONDITIONS:			
NAME AND ADDRESS: CLS LABS 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95742				ANALYSIS REQUESTED 			
PROJECT MANAGER: James Wang PROJECT NAME: DEWOTP EAW0A				PRESERVATIVES 			
SITELocation 				DATE / TIME 			
JOB DESCRIPTION 				DATE / TIME 			
SUSPECTED CONSTITUENTS 				DATE / TIME 			
RELINQUISHED BY (SIGN) 				DATE / TIME 			
PRINT NAME / COMPANY 				DATE / TIME 			
RECEIVED BY (SIGN) 				DATE / TIME 			
PRINT NAME / COMPANY 				DATE / TIME 			
PRESERVATIVES: (1) HCL (2) HNO ₃ (3) = COLD (4) Zn-Ascorbate 				SAMPLE RETENTION TIME 			
PO. # 				QUOTE # 			
COOLING CUSTODY SEALS INTACT <input type="checkbox"/>				NOT INTACT <input type="checkbox"/>			
TEMPERATURE: 5.7 °C							
TURN AROUND TIME 				SPECIAL INSTRUCTIONS 			
1 DAY 				1 DAY 			
2 DAY 				2 DAY 			
5 DAY 				5 DAY 			
10 DAY 				10 DAY 			
COMPOSITE:							

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/18/2002
Date Reported: 06/28/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: W020618M
Instrument ID: INMIX
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / EFFLUENT				
Hardness as CaCO ₃	N/A	61	1.0	1.0
Fluoride	N/A	0.25	0.10	1.0
Chloride	N/A	66	10	20
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	22	10	20
Sulfate	N/A	85	10	20
Methylene Blue Active Substances	N/A	0.11, J	0.50	1.0
pH	N/A	7.3	Note 1	1.0
Specific Conductance	N/A	820	Note 2	1.0
Total Dissolved Solids	N/A	600	1.0	1.0
2D / DEER CREEK				
Hardness as CaCO ₃	N/A	260	1.0	1.0
Fluoride	N/A	0.24	0.10	1.0
Chloride	N/A	12	1.0	2.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	.164, J	0.50	1.0
Sulfate	N/A	16	0.50	1.0
Methylene Blue Active Substances	N/A	ND	0.50	1.0
pH	N/A	8.7	Note 1	1.0
Specific Conductance	N/A	400	Note 2	1.0
Total Dissolved Solids	N/A	290	1.0	1.0

J = Estimated value.

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916)714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: T8850-2B
Job No.: 848850
COC Log No.: 36628
Batch No.: M020621A
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: 06/21/2002
Date Analyzed: 06/26/2002
Date Reported: 07/05/2002
Client ID No.: DEER CREEK (Dissolved)

DEER CREEK (DISSOLVED)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	17.3,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	79,J	100	200.7	1.0
Mn (Manganese)	7439965	3.4,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: 06/21/2002
Date Analyzed: 06/26/2002
Date Reported: 07/05/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8850-1D
Job No.: 848850
COC Log No.: 36628
Batch No.: M020621A
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	4.5, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	36, J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: 06/21/2002
Date Analyzed: 06/26/2002
Date Reported: 07/05/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: T8850-2A
Job No.: 848850
COC Log No.: 36628
Batch No.: M020621A
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	15.9,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	50,J	100	200.7	1.0
Mn (Manganese)	7439965	6.4,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: 06/21/2002
Date Analyzed: 06/26/2002
Date Reported: 07/05/2002
Client ID No.: BLANK

Lab Contact: James Liang
Lab ID No.: T8850-3A
Job No.: 848850
COC Log No.: 36628
Batch No.: M020621A
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	13, J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/25/2002
Date Reported: 06/28/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: W020618M
Instrument ID: NONE
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1B / EFFLUENT Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit.

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: 06/20/2002
Date Analyzed: 06/20/2002
Date Reported: 06/28/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: W020618M
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / EFFLUENT				
Ammonia as Nitrogen	N/A	0.18	0.10	1.0
2C / DEER CREEK				
Ammonia as Nitrogen	N/A	0.21	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/27/2002
Date Reported: 06/28/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: W020618M
Instrument ID: UV002
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / EFFLUENT				
Total Phosphorus	N/A	4.1	0.50	10
2C / DEER CREEK				
Total Phosphorus	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/19/2002
Date Reported: 06/25/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: IC1020619
Instrument ID: IC001
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / EFFLUENT Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/19/2002
Date Reported: 06/20/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T8850-11
Job No.: 848850
COC Log No.: 36628
Batch No.: 33095
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	12.3	10.0	123	66	135
Toluene-d8 N/A	10.7	10.0	107	72	125
p-Bromofluorobenzene 460004	10.8	10.0	108	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	12	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	140	0.50	1.0
Chloromethane	74873	0.65	0.50	1.0
Dibromochloromethane	124481	0.61	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: T8850-1I
Job No.: 848850
COC Log No.: 36628
Batch No.: 33095
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/19/2002
Date Reported: 06/20/2002
Client ID No.: EFFLUENT

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/20/2002
Date Reported: 06/21/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: 33100
Instrument ID: GC016
Analyst ID: JENNDG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1H / EFFLUENT					
1-chloro-2-fluorobenzene 348-51-6	20.1	20.0	100	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 06/18/2002
Date Received: 06/18/2002
Date Extracted: N/A
Date Analyzed: 06/24/2002
Date Reported: 06/25/2002

Lab Contact: James Liang
Lab ID No.: T8850
Job No.: 848850
COC Log No.: 36628
Batch No.: 33106
Instrument ID: LC002
Analyst ID: JENNDC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Westmont, NJ
(856) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Wednesday, July 03, 2002

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: T8850
Attention: James Liang
Ref Number: CA022687
Date Sampled: 06-18-02
Date Filtered: 06-19-02
Date Analyzed: 06-27-02

Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
"Determination of Asbestos Structures Over 10µm In Length
in Drinking Water"; by Brackett, Clark & Millette

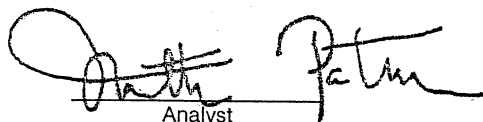
SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Effluent**	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

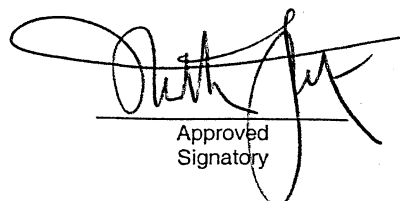
*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

**Sample received above the maximum 4 degrees Celsius. This may have affected the analytical results.


Analyst


Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620

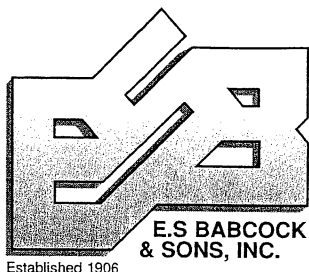
[illegible]

LOG NO. 3628

REPORT TO:		CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:	
NAME AND ADDRESS		EID 154		PRESERVATIVES		COMPOSITE:	
9766 Waterman Rd. Suite L2		DESTINATION LABORATORY		376.2 Sulfide			
ELR Grove, CA 95624		CLS (916) 638-7301		3048 Trace Metals (Total Recoverable)			
PROJECT MANAGER		3249 FITZGERALD RD.		3048 Trace Metals (Dissolved)			
PROJECT NAME		RANCHO CORDOVA, CA.		Gen. Min. (Anions, MBAs only)			
PROJECT MANAGER		95742					
PROJECT NAME		OTHER					
SAMPLED BY							
JOB DESCRIPTION							
SITE LOCATION							
Deer Creek WWTP							
DATE		TIME		IDENTIFICATION		SAMPLE	
6/18/02		3:05		Effluent		1 250mlP	
6/18/02		3:05		Effluent		1 250mlP	
6/18/02		3:05		Effluent		1 500mlP	
6/17/02		3:45		Blank		1 500mlP	
6/18/02		3:05		Effluent		1 500mlP	
6/18/02		2:50		Deer Creek		1 500mlP	
6/18/02		2:50		Deer Creek		1 500mlP	
6/18/02		3:05		Effluent		1 1-LP	
6/18/02		2:50		Deer Creek		1 1-LP	
SUSPECTED CONSTITUENTS							
RELINQUISHED BY (SIGN)		PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)	
David Thomas		David Thomas / RBI		6/18/02 4:15			
REC'D AT LAB BY		DATE		TIME		CONDITIONS / COMMENTS:	
David Thomas		6/18/02		1615			
SHIPPED BY:		FED X		UPS		OTHER	
AIR BILL #							

1631

REC'D BY: LAB 51: *[Signature]* ☐ **FED**
SHIPPED BY:



NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

Analytical Report: Page 1 of 4
Project Name: Invoice Attn.
Project Number: T8850
Report Date: 29-Aug-2002
Work Order Number: A2F1071

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

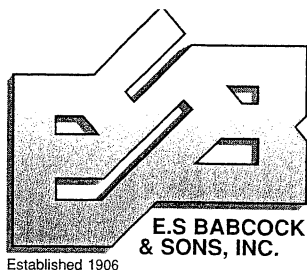
Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Received</u>	<u>By</u>
A2F1071-01	Effluent Wastewater DCWWTP ERWQA	Liquid	06/18/02 00:00	Client	06/21/02 10:00	Courier



RECEIVED
SEP 10 2002

RV.



NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

Analytical Report: Page 2 of 4
Project Name: Invoice Attn.
Project Number: T8850
Report Date: 29-Aug-2002
Work Order Number: A2F1071

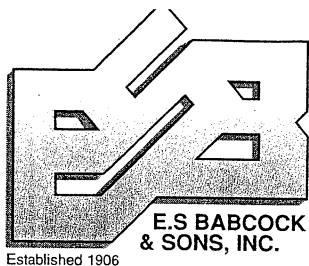
Laboratory Reference Number
A2F1071-01RE1

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Effluent DCWWTP ERWQA	Liquid	06/18/02 00:00	06/21/02 10:00

Analyte(s)	Result	*RDL Units	Method	Analysis Date	Analyst	Flag
Miscellaneous Organic Compounds Tributyl tin	ND	0.020 ug/L	EV -024/025	08/01/02 11:59	IEO	

Reportable Detection Limit





NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

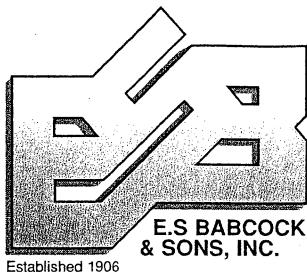
Analytical Report: Page 3 of 4
Project Name: Invoice Attn.
Project Number: T8850
Report Date: 29-Aug-2002
Work Order Number: A2F1071

Miscellaneous Organic Compounds - Batch Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 2G09005 - Tributyl Tin										
Blank (2G09005-BLK1)				Prepared: 07/31/02 Analyzed: 08/01/02						
Tributyl tin	0.0205	0.020	ug/L							QBLK
Duplicate (2G09005-DUP1)				Source: A2F1401-01 Prepared: 07/31/02 Analyzed: 08/01/02						
Tributyl tin	0.0299	0.020	ug/L		ND				20	QRPDI

Reportable Detection Limit





NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

Analytical Report: Page 4 of 4
Project Name: Invoice Attn.
Project Number: T8850
Report Date: 29-Aug-2002
Work Order Number: A2F1071

Notes and Definitions

QBLK The method blank did not meet laboratory acceptance criteria.
QRPD Analyte concentration was below range for valid RPD determination.
QRPD_o The RPD value for the sample duplicate or MS/MSD or LCS/LCSD did not meet laboratory acceptance criteria.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (RDL)
NR Not Reported
ry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

☒ James K. Babcock
President

☐ Allison Mackenzie
Lab Manager

☐ Lawrence J. Chrystal
Lab Director

cc:



CLS-T's

CHAIN OF CUSTODY

CLSID No.:

LOG NO. 373

[illegible]

JULY 2002



Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

08/30/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID 154
Date Received: 07/24/2002
Chain Of Custody: 29636,5

CLS ID No.: T9867
CLS Job No.: 849867

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Tributyltin by GC/FPD
1	10 Days	Sulfite Analysis
2	10 Days	General Mineral
4	10 Days	4 metals EPA Method 200.8
1	10 Days	Sulfide & NO2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
1	10 Days	VOC's by EPA 502.2/8260
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	Acrolein & Acrylonitrile, EPA 8316
1	10 Days	Asbestos Analysis

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

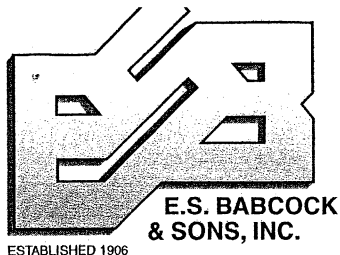
Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

RECEIVED
SEP 05 2002

BY:



Environmental Laboratory Certification #1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

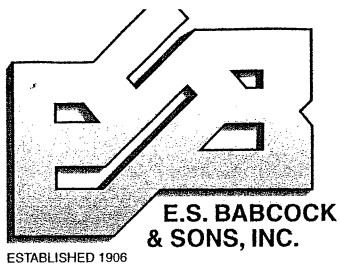
Analytical Report: Page 1 of 4
Project Name: Invoice Attn.
Project Number: Project #T9867
Report Date: 15-Aug-2002
Work Order Number: A2G1172

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Received</u>	<u>By</u>
A2G1172-01	T9867 - Effluent Wastewater SIP / NPDES Program	Liquid	07/24/02 00:00		07/26/02 10:30	Courier



Environmental Laboratory Certification #1156
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e-mail: esbsales@aol.com
www.babcocklabs.com

Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

Analytical Report: Page 2 of 4
Project Name: Invoice Attn.
Project Number: Project #T9867
Report Date: 15-Aug-2002
Work Order Number: A2G1172

Laboratory Reference Number
A2G1172-01

Sample Description
T9867 - Effluent SIP / NPDES Program

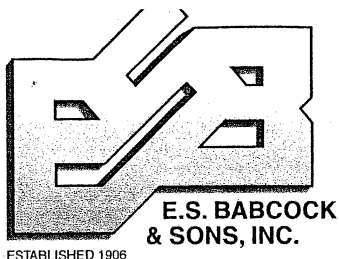
Matrix
Liquid

Sampled Date/Time
07/24/02 00:00

Received Date/Time
07/26/02 10:30

Analyte(s)	Result	*RDL Units	Method	Analysis Date	Analyst	Flag
Miscellaneous Organic Compounds Tributyl tin	ND	0.020 ug/L	EV -024/025	08/13/02 12:18	IEO	

*Reportable Detection Limit



Environmental Laboratory Certification #1156
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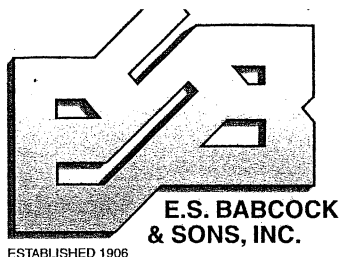
Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

Analytical Report: Page 3 of 4
Project Name: Invoice Attn.
Project Number: Project #T9867
Report Date: 15-Aug-2002
Work Order Number: A2G1172

Miscellaneous Organic Compounds - Batch Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 2H12028 - Tributyl Tin										
Blank (2H12028-BLK1)				Prepared: 08/12/02 Analyzed: 08/13/02						
Tributyl tin	ND	0.020	ug/L							
Blank (2H12028-BLK2)				Prepared: 08/12/02 Analyzed: 08/13/02						
Tributyl tin	ND	0.020	ug/L							
Duplicate (2H12028-DUP1)				Source: A2G1172-01 Prepared: 08/12/02 Analyzed: 08/13/02						
Tributyl tin	0.169	0.020	ug/L		ND				20	A-01

*Reportable Detection Limit



Environmental Laboratory Certification #1156
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Client Name: California Laboratory Services
Contact: Dr. James Liang
Address: 3249 Fitzgerald Road
Rancho Cordova, CA 95742

Analytical Report: Page 4 of 4
Project Name: Invoice Attn.
Project Number: Project #T9867
Report Date: 15-Aug-2002
Work Order Number: A2G1172

Notes and Definitions

- A-01 The duplicate in this batch did not meet laboratory acceptance criteria (possible contamination). Only samples with a result of ND shall be reported.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit (RDL)
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

☒ James K. Babcock
President

☐ Allison Mackenzie
Lab Manager

☐ Lawrence J. Chrystal
Lab Director

cc:



July 31 , 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: NPDES / P207431

Enclosed are the results of analyses for samples received by the laboratory on 07/25/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 9867
Project Manager: James Liang

P207431
Reported:
07/31/02 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AGC 7070	P207431-01	Water	07/24/02 09:00	07/25/02 09:50





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 9867
Project Manager: James Liang

P207431
Reported:
07/31/02 14:20

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Petaluma

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
AGC 7070 (P207431-01) Water Sampled: 07/24/02 09:00 Received: 07/25/02 09:50									
Sulfite	ND	5.0	mg/l	1	2070787	07/25/02	07/25/02	EPA 377.1	HT-01





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 9867
Project Manager: James Liang

P207431
Reported:
07/31/02 14:20

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070787 - General Preparation										
Blank (2070787-BLK1)				Prepared & Analyzed: 07/25/02						
Sulfite	ND	5.0	mg/l							
Laboratory Control Sample (2070787-BS1)				Prepared & Analyzed: 07/25/02						
Sulfite	91.0	5.0	mg/l	91.5		99	80-120			
Matrix Spike (2070787-MS1)				Source: P207432-01		Prepared & Analyzed: 07/25/02				
Sulfite	106	5.0	mg/l	102	ND	104	75-125			
Matrix Spike Dup (2070787-MSD1)				Source: P207432-01		Prepared & Analyzed: 07/25/02				
Sulfite	106	5.0	mg/l	102	ND	104	75-125	0	20	





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: NPDES
Project Number: T 9867
Project Manager: James Liang

P207431
Reported:
07/31/02 14:20

Notes and Definitions

HT-01 This sample was received beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



LOG NO. 29691

[illegible]

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/24/2002
Date Reported: 08/09/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: W020724F
Instrument ID: INMIX
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / EFFLUENT				
Hardness as CaCO ₃	N/A	160	1.0	1.0
Fluoride	N/A	0.22	0.10	1.0
Chloride	N/A	78	2.5	5.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	24	2.5	5.0
Sulfate	N/A	100	2.5	5.0
Methylene Blue Active Substances	N/A	0.18, J	0.50	1.0
pH	N/A	7.1	Note 1	1.0
Specific Conductance	N/A	850	Note 2	1.0
Total Dissolved Solids	N/A	550	1.0	1.0
3C / Deer Creek				
Hardness as CaCO ₃	N/A	190	1.0	1.0
Fluoride	N/A	0.22	0.10	1.0
Chloride	N/A	18	0.50	1.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.13, J	0.50	1.0
Sulfate	N/A	4.9	0.50	1.0
Methylene Blue Active Substances	N/A	0.038, J	0.50	1.0
pH	N/A	8.4	Note 1	1.0
Specific Conductance	N/A	410	Note 2	1.0
Total Dissolved Solids	N/A	230	1.0	1.0

J = Estimated value.

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: 07/25/2002
Date Analyzed: 07/26/2002
Date Reported: 08/08/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T9867-1D
Job No.: 849867
COC Log No.: 29636,5
Batch No.: M020725C
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	4.1,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	8,J	100	200.7	1.0
Mn (Manganese)	7439965	4.1,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: 07/25/2002
Date Analyzed: 07/26/2002
Date Reported: 08/08/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: T9867-2A
Job No.: 849867
COC Log No.: 29636,5
Batch No.: M020725C
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: 07/25/2002
Date Analyzed: 07/26/2002
Date Reported: 08/08/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: T9867-3A
Job No.: 849867
COC Log No.: 29636,5
Batch No.: M020725C
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	8.3,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	550	100	200.7	1.0
Mn (Manganese)	7439965	260	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: 07/25/2002
Date Analyzed: 07/26/2002
Date Reported: 08/08/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: M020725C
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
3B / Deer Creek				
Ba (Barium)	7440393	7.9, J	20	1.0
Be (Beryllium)	7440417	ND	5.0	1.0
Fe (Iron)	7439896	120	100	1.0
Mn (Manganese)	7439965	180	20	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/25/2002
Date Reported: 08/09/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: W020724F
Instrument ID: NONE
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1B / EFFLUENT Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 08/01/2002
Date Reported: 08/09/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: W020724F
Instrument ID: UV002
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / EFFLUENT				
Ammonia as Nitrogen	N/A	0.18	0.10	1.0
3D / Deer Creek				
Ammonia as Nitrogen	N/A	0.34	0.10	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/31/2002
Date Reported: 08/01/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: 33311
Instrument ID: GC016
Analyst ID: JENNDG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1H / EFFLUENT					
1-chloro-2-fluorobenzene 348-51-6	19.1	20.0	95	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/31/2002
Date Reported: 08/01/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T9867-1I
Job No.: 849867
COC Log No.: 29636,5
Batch No.: 33308
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	9.19	10.0	92	66	135
Toluene-d8 N/A	9.63	10.0	96	72	125
p-Bromofluorobenzene 460004	9.93	10.0	99	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	8.6	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	71	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	0.59	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/31/2002
Date Reported: 08/01/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: T9867-11
Job No.: 849867
COC Log No.: 29636,5
Batch No.: 33308
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: 07/26/2002
Date Analyzed: 07/29/2002
Date Reported: 08/09/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: W020724F
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / EFFLUENT				
Total Phosphorus	N/A	3.6	0.50	10
3D / Deer Creek				
Total Phosphorus	N/A	0.062	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/24/2002
Date Reported: 07/26/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: IC1020724B
Instrument ID: IC001
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / EFFLUENT Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 07/24/2002
Date Received: 07/24/2002
Date Extracted: N/A
Date Analyzed: 07/30/2002
Date Reported: 07/31/2002

Lab Contact: James Liang
Lab ID No.: T9867
Job No.: 849867
COC Log No.: 29636,5
Batch No.: 33301
Instrument ID: LC002
Analyst ID: JENND C
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Westmont, NJ
(856) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Friday, August 2, 2002

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: T9867
Attention: James Liang
Ref Number: CA023209
Date Sampled: 07/24/02
Date Filtered: 07/25/02
Date Analyzed: 08/01/02

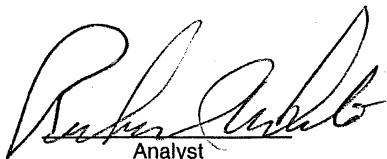
Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
“Determination of Asbestos Structures Over 10µm In Length
in Drinking Water”; by Brackett, Clark & Millette

SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Effluent	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.


Analyst


Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620

LOG NO. 29392

REPORT TO: GLS LABS 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95742										FIELD CONDITIONS:									
NAME AND ADDRESS										CLIENT JOB NUMBER T9867									
PROJECT MANAGER James Liang (916) 638-7301										DESTINATION LABORATORY									
PROJECT NAME NPDES/SIP J-Flags*										PRESERVATIVES									
SAMPLED BY										ANALYSIS REQUESTED									
JOB DESCRIPTION										TURN AROUND TIME									
SITE LOCATION										SPECIAL INSTRUCTIONS									
DATE										1 DAY									
TIME										2 DAY									
SAMPLE IDENTIFICATION										5 DAY									
MATRIX										10 DAY									
CONTAINER NO.										TYPE									
7/24/02										Effluent									
H2O										amber									
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LOG NO. 29636

ANALYSIS REQUESTED

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VII. RETENTION TIME

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07-21

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30

CLS - jbs

CHAIN OF CUSTODY

CLS ID NO.: T9867

LOG NO. 29635

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED				FIELD CONDITIONS:			
NAME AND ADDRESS				ED 154		PRESERVATIVES				COMPOSITE:			
9700 Waterman Rd. Suite L2				DESTINATION LABORATORY									
EIK Grove, CA 95624				CLS (916) 638-7301									
PROJECT MANAGER David Thomas				3249 FITZGERALD RD.									
PROJECT NAME DC WWTP ERWQA				RANCHO CORDOVA, CA.									
SAMPLED BY David Thomas				95742									
JOB DESCRIPTION Effluent & Creek Sampling				OTHER									
SITE LOCATION Deer Creek WWTP													
DATE		TIME		SAMPLE IDENTIFICATION		CONTAINER		TURN AROUND TIME		SPECIAL INSTRUCTIONS			
						NO. TYPE							
7/24/02	11:10	Effluent		WW	1	250mlP			1 DAY	NPDES/SIP Reporting Limit			
7/24/02	11:20	Effluent		WW	1	250mlP 4			2 DAY	J-Flags			
7/24/02	11:10	Effluent		WW	1	500mlP			5 DAY				
7/23/02	10:35	Blank		RW	1	500mlP 2			10 DAY				
7/24/02	11:20	Effluent		WW	1	500mlP 2							
7/24/02	10:55	Deer Creek		FW	1	500mlP 2							
7/24/02	10:55	Deer Creek		FW	1	500mlP							
7/24/02	11:20	Effluent		WW	1	1-LP							
7/24/02	10:55	Deer Creek		FW	1	1-LP							
SUSPECTED CONSTITUENTS							SAMPLE RETENTION TIME		PRESERVATIVES: (1) HCL (2) HNO ₃		(3) = GOLD (4) Zn Ac		
RELINQUISHED BY (SIGN)							DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY		
David Thomas							7/24/02 12:10						
RECD AT LAB BY:							DATE / TIME:		CONDITIONS / COMMENTS:		AIR BILL #		
SHIPPED BY:							DATE / TIME:		072402 1210				
FED X							UPS		OTHER				

AUGUST 2002



Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

09/23/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 08/13/2002
Chain Of Custody: 33350-52,29637

CLS ID No.: U0431
CLS Job No.: 850431

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Glyphosate Analysis
1	10 Days	Sulfite Analysis
1	10 Days	2BisEHA by 506
2	10 Days	General Mineral
4	10 Days	4 Metals, by EPA Method 200.8
1	10 Days	Sulfide & NO2
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
1	10 Days	EPA Method 548.1
1	10 Days	EPA Method 549.1
1	10 Days	Carbamate and Urea Pesticides, EPA 632
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	Ethylene Dibromide, EPA Method 504
1	10 Days	Organochlorine Pesticides, EPA 8081A
1	10 Days	Organophosphorus Pesticides by GC-NPD
1	10 Days	Chlorinated Acid Herbicides
1	10 Days	VOCs by 8260/502.2
1	10 Days	SVOCs by 8270/610
1	10 Days	Acrolein & Acrylonitrile, EPA 8316

RECEIVED
SEP 25 2002

BY:.....



These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

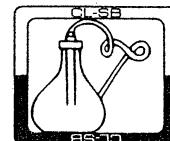
Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Lab Job M26772X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916)638-7301

Project: Client Job No. U0431

Sampled By: NOT LISTED
Date Sampled: 08/13/02 00:00:00
Date Received: 08/16/02 12:00:00
Date Started: 08/16/02
Date Completed: 09/10/02
Date Reported: 09/17/02 08:32:45

Lab Contact:
Job No.:
COC Log No.:
Lab ID No.: M26772X-1A
Batch No.:
Instrument ID: VAR
Analyst ID: ORG1STAFF
Matrix: WASTEWATER

Sample: EFFLUENT

Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di(2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547

ND = Not detected at or above indicated DLR; Detection Limit for Reporting

Manager: _____

Director: _____

LOG NO. 40005

AIR BILL #



August 26 , 2002

James Liang
CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
RE: General / P208226

Enclosed are the results of analyses for samples received by the laboratory on 08/14/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate Number 2374





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: U 0431
Project Manager: James Liang

P208226
Reported:
08/26/02 16:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	P208226-01	Water	08/13/02 15:25	08/14/02 09:45





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: U 0431
Project Manager: James Liang

P208226
Reported:
08/26/02 16:37

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (P208226-01) Water Sampled: 08/13/02 15:25 Received: 08/14/02 09:45									
Sulfite	ND	5.0	mg/l	1	2080381	08/14/02	08/14/02	EPA 377.1	





CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: U 0431
Project Manager: James Liang

P208226
Reported:
08/26/02 16:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2080381 - General Preparation

Blank (2080381-BLK1)

Prepared & Analyzed: 08/14/02

Sulfite	ND	5.0	mg/l
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Laboratory Control Sample (2080381-BS1)

Prepared & Analyzed: 08/14/02

Sulfite	49.0	5.0	mg/l	50.0	98	80-120
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Matrix Spike (2080381-MS1)

Source: P208226-01

Prepared & Analyzed: 08/14/02

Sulfite	51.0	5.0	mg/l	50.0	ND	102	75-125
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Matrix Spike Dup (2080381-MSD1)

Source: P208226-01

Prepared & Analyzed: 08/14/02

Sulfite	51.0	5.0	mg/l	50.0	ND	102	75-125	0	20
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CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova CA, 95742

Project: General
Project Number: U 0431
Project Manager: James Liang

P208226
Reported:
08/26/02 16:37

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/14/2002
Date Reported: 09/03/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: W020813M
Instrument ID: INMIX
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / Effluent				
Hardness as CaCO ₃	N/A	190	1.0	1.0
Fluoride	N/A	0.22	0.10	1.0
Chloride	N/A	69	2.5	5.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	13	2.5	5.0
Sulfate	N/A	93	2.5	5.0
Methylene Blue Active Substances	N/A	0.078, J	0.50	1.0
pH	N/A	7.2	Note 1	1.0
Specific Conductance	N/A	790	Note 2	1.0
Total Dissolved Solids	N/A	530	1.0	1.0
3C / Deer Creek				
Hardness as CaCO ₃	N/A	140	1.0	1.0
Fluoride	N/A	ND	0.10	1.0
Chloride	N/A	18	0.50	1.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.14, J	0.50	1.0
Sulfate	N/A	5.8	0.50	1.0
Methylene Blue Active Substances	N/A	ND	0.50	1.0
pH	N/A	8.1	Note 1	1.0
Specific Conductance	N/A	280	Note 2	1.0
Total Dissolved Solids	N/A	200	1.0	1.0

J = Estimated value.

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/14/2002
Date Analyzed: 08/27/2002
Date Reported: 08/29/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1E
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: M020814B
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	6.9, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	130	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U0431-2A
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: M020814B
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Extracted: 08/14/2002
Date Analyzed: 08/27/2002
Date Reported: 08/29/2002
Client ID No.: Blank

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	3.1,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	170	100	200.7	1.0
Mn (Manganese)	7439965	2.2,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U0431-3A
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: M020814B
Instrument ID: IP004
Analyst ID: ANTHONYG
Matrix: WATER

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/14/2002
Date Analyzed: 08/27/2002
Date Reported: 08/29/2002
Client ID No.: Deer Creek

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	12,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	300	100	200.7	1.0
Mn (Manganese)	7439965	30	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U0431-3B
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: M020814B
Instrument ID: IP004
Analyst ID: ANDORAB
Matrix: WATER

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/14/2002
Date Analyzed: 08/27/2002
Date Reported: 08/29/2002
Client ID No.: Deer Creek

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	11,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Fe (Iron)	7439896	190	100	200.7	1.0
Mn (Manganese)	7439965	7.0,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/16/2002
Date Reported: 09/03/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: W020813M
Instrument ID: NONE
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1D / Effluent Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/26/2002
Date Analyzed: 08/26/2002
Date Reported: 09/03/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: W020813M
Instrument ID: UV002
Analyst ID: CINDYC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1C / Effluent				
Ammonia as Nitrogen	N/A	0.22	0.10	1.0
3D / Deer Creek				
Ammonia as Nitrogen	N/A	0.20	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Carbamate and Urea Pesticides, EPA Method 632

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/16/2002
Date Analyzed: 08/22/2002
Date Reported: 08/23/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03791
Instrument ID: LC001
Analyst ID: JENND
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1F / Effluent				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/19/2002
Date Analyzed: 08/19/2002
Date Reported: 09/03/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: W020813M
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1C / Effluent Total Phosphorus	N/A	3.2	1.0	20
3D / Deer Creek Total Phosphorus	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/14/2002
Date Reported: 08/15/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: IC102020814
Instrument ID: IC001
Analyst ID: ANDORAB
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1B / Effluent Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: EDB and DBCP, EPA Method 504

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/16/2002
Date Analyzed: 08/20/2002
Date Reported: 08/23/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03789
Instrument ID: PGC05
Analyst ID: NGCDUNG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / Effluent				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organochlorine Pesticides, EPA Method 8081A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/19/2002
Date Analyzed: 08/21/2002
Date Reported: 08/28/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1F
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03800
Instrument ID: GC022
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.0965	0.250	39 (MA)	43	147
Decachlorobiphenyl 2051243	0.0508	0.250	20 (MA)	43	139

MA = Recovery data is outside standard QC limits due to matrix interference. LCS recovery data validates methodology.

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	0.015 (J)	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	0.0069 (J)	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/19/2002
Date Analyzed: 08/28/2002
Date Reported: 08/30/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1F
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03800
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	ND	1.0	1.0
Atrazine	1912249	ND	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	ND	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/20/2002
Date Analyzed: 08/26/2002
Date Reported: 09/03/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1F
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03796
Instrument ID: GC021
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	SD	0.250	SD	50	150

SD = Surrogate standard recovery data could not be generated due to sample dilution during analysis.

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	10 (AI)	10
Silvex (2,4,5-TP)	93721	ND	10	10
Dalapon	75990	ND	20	10
Dinoseb	88857	ND	10	10
Bentazon	25057890	ND	20	10
Picloram	1918021	ND	10	10
Pentachlorophenol	87865	ND	10	10

AI = All report limits have been elevated due to matrix interference.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/15/2002
Date Reported: 08/16/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1H
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: 33381
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	9.99	10.0	100	66	135
Toluene-d8 N/A	10.5	10.0	105	72	125
p-Bromofluorobenzene 460004	10.5	10.0	105	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	5.5	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	95	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	ND	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U0431-1H
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: 33381
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/15/2002
Date Reported: 08/16/2002
Client ID No.: Effluent

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/15/2002
Date Reported: 08/16/2002

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: 33367
Instrument ID: GC016
Analyst ID: JENNDC
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1G / Effluent					
1-chloro-2-fluorobenzene 348-51-6	20.6	20.0	103	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1G / Effluent				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/19/2002
Date Analyzed: 08/22/2002
Date Reported: 09/05/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1F
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03797
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

SURROGATE

Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	40.9	75.0	54	21	110
Phenol-d5	4165622	35.0	75.0	47	10	110
Nitrobenzene-d5	4665600	36.6	50.0	73	35	114
2-Fluorobiphenyl	321608	38.5	50.0	77	43	116
2,4,6-Tribromophenol	118796	53.6	75.0	72	10	123
Terphenyl-d14	98904439	41.1	50.0	82	33	141

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl) ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl) ether	108601	ND	10	1.0
Bis(2-ethylhexyl) phthalate	117817	ND	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916)714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/19/2002
Date Analyzed: 08/22/2002
Date Reported: 09/05/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1F
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03797
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: 08/20/2002
Date Analyzed: 08/26/2002
Date Reported: 08/27/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U0431-1F
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: E03804
Instrument ID: LC002
Analyst ID: JENNDNC
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.50	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo(a)anthracene	56553	ND	0.20	1.0
Benzo(a)pyrene	50328	ND	0.10	1.0
Benzo(b)fluoranthene	205992	ND	0.20	1.0
Benzo(g,h,i)perylene	191242	ND	0.20	1.0
Benzo(k)fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo(a,h)anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno(1,2,3-c,d)pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1801

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U0431
Job No.: 850431
COC Log No.: 33350-52,29637
Batch No.: 33387
Instrument ID: LC002
Analyst ID: DAVIDC
Matrix: WW

Date Sampled: 08/13/2002
Date Received: 08/13/2002
Date Extracted: N/A
Date Analyzed: 08/16/2002
Date Reported: 08/20/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1G / Effluent				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS - 'bs

CHAIN OF CUSTOD

CLS ID No.: 00431

LOG NO. -9637

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:					
NAME AND ADDRESS				EID-154		PRESERVATIVES		TURN AROUND TIME				SPECIAL INSTRUCTIONS	
7700 Waterman Rd. suite L2				DESTINATION LABORATORY		MATRIX NO. TYPE		DAY 1 DAY 2 DAY 5 DAY 10				NPDES/1P Reporting Limits	
FLK Grove, CA 95624				CLS (916) 638-7301		WW 1 250mlP		X				J-Flags	
PROJECT MANAGER				3249 FITZGERALD RD.		WW 1 250mlP		X					
PROJECT NAME				RANCHO CORDOVA, CA. 95742		RW 1 500mlP		X					
SAMPLED BY				OTHER		WW 1 500mlP		X					
JOB DESCRIPTION						FW 1 500mlP		X					
SITE LOCATION						FW 1 500mlP		X					
8/13/02	3:25	Effluent	Deer Creek WWTP										
8/13/02	3:10	Effluent											
8/13/02	3:30	Blank											
8/13/02	3:50	Effluent											
8/13/02	2:45	Deer Creek											
8/13/02	2:45	Deer Creek											
8/13/02	3:25	Effluent											
8/13/02	3:10	Effluent											
8/13/02	2:45	Deer Creek											
8/13/02	3:10	Effluent											
SUSPECTED CONSTITUENTS													
RELINQUISHED BY (SIGN)				PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)		PRESERVATIVES:		(3) = COLD (4) ZnAc	
David Thomas				David Thomas / RB1		8/13/02 4:40				(1) HCL (2) HNO3		ZnAc	
RECD AT LAB				DATE / TIME		1640		CONDITIONS / COMMENTS:		AIR BILL #			
SHIPPED BY:				FED X		UPS		OTHER Client					

1670

REPORT TO:

NAME AND ADDRESS	Robertson-Bryant, Inc. 9746 Waterman Rd. Suite L2 Elk Grove, CA 95624
PROJECT MANAGER	David Thomas
PROJECT NAME	DCWWTP ERWQA
SAMPLED BY	D. Thomas
JOB DESCRIPTION	Effluent & Creek Sampling

SITE LOCATION Deer Creek WWTTP

DATE	TIME	SAMPLE IDENTIFICATION
8/13/02	3:10	Effluent
8/13/02	2:45	Deer Creek
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent

CLIENT JOB NUMBER

EID-154

DESTINATION LABORATORY

CLS (916) 638-7301

3249 FITZGERALD RD.
RANCHO CORDOVA, CA. 95742

OTHER

JOB DESCRIPTION	
Effluent & Creek Sampling	

SITE LOCATION Deer Creek WWTTP

DATE	TIME	SAMPLE IDENTIFICATION
8/13/02	3:10	Effluent
8/13/02	2:45	Deer Creek
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent
8/13/02	3:10	Effluent

SUSPECTED CONSTITUENTS

RELINQUISHED BY (SIGN)

David Thomas

PRINT NAME / COMPANY

David Thomas / RB1

DATE / TIME

3/62 4:20

TIME / TIME

07:4	24:10
------	-------

RECEIVED BY (SIGN)

--

PRINT NAME / COMPANY

RECEIVED BY: John J. [Signature] ☐ FED X

SHIPPED BY: _____

DATE / TIME	8/11/20
	UPS

OTHER CH

075
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AIR BILL #

FEDX

☐ UPSOTHER 

AIR BILL #

CL-50

CHAIN OF CUSTODY

CLS ID No.: 0043

LOG NO. 3351

[illegible]



RECEIVED
SEP 03 2002

BY:.....

August 28, 2002

Alta Project I.D.: 22660

Mr. David Thomas
Robertson-Bryan, Inc.
9766 Waterman Road
Suite L2
Elk Grove, CA 95624

Dear Mr. Thomas,

Enclosed are the results for the one of the two effluent samples received at Alta Analytical Laboratory on August 14, 2002 under your Project Name "DCWWTP ERWQA". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work. As requested, the field blank was not analyzed.

At your request, sample results have been reported in accordance with the California Toxics Rule. Results for 2,3,7,8-substituted congeners that are less than Alta's method detection limit (MDL) have been reported as "not detected" (ND), and the MDL value has been reported as the detection limit. The affected results have been flagged with an asterisk. Homologue totals, which do not have MDLs and are not included in the TEQ calculation, are reported to the sample detection limit.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Section I: Sample Inventory Report

Date Received: 8/14/2002

Alta Lab. ID

Client Sample ID

22660-001

BLANK

22660-002

EFFLUENT

SECTION II

Method Blank						EPA METHOD 1613		
Matrix:	Effluent	QC Batch No.: 3252		Lab Sample: 0-MB001				
Sample Size:	1.000 L	Date Extracted: 23-Aug-02		Date Analyzed DB-5: 26-Aug-02		Date Analyzed DB-225: NA		
Analyte	Conc. (pg/L)	DL ^a	EMPC ^b	MDL ^c	Qualifiers	Labeled Standard	%R	LCL-UCL ^d Qualifiers
2,3,7,8-TCDD	ND	0.986		0.637		IS 13C-2,3,7,8-TCDD	78.5	25 - 164
1,2,3,7,8-PeCDD	ND	1.17		2.81		13C-1,2,3,7,8-PeCDD	72.5	25 - 181
1,2,3,4,7,8-HxCDD	ND	2.11		1.75		13C-1,2,3,4,7,8-HxCDD	68.3	32 - 141
1,2,3,6,7,8-HxCDD	ND	2.11		1.87		13C-1,2,3,6,7,8-HxCDD	77.7	28 - 130
1,2,3,7,8,9-HxCDD	ND	2.10		2.71		13C-1,2,3,4,6,7,8-HpCDD	72.3	23 - 140
1,2,3,4,6,7,8-HpCDD	ND	2.85		3.05		13C-OCDD	71.5	17 - 157
OCDD	ND	6.96		6.96	*	13C-2,3,7,8-TCDF	92.1	24 - 169
2,3,7,8-TCDF	ND	1.02		1.03		13C-1,2,3,7,8-PeCDF	73.6	24 - 185
1,2,3,7,8-PeCDF	ND	1.74		2.25		13C-2,3,4,7,8-PeCDF	79.7	21 - 178
2,3,4,7,8-PeCDF	ND	1.43		2.38		13C-1,2,3,4,7,8-HxCDF	65.0	26 - 152
1,2,3,4,7,8-HxCDF	ND	0.780		2.38		13C-1,2,3,6,7,8-HxCDF	66.4	26 - 123
1,2,3,6,7,8-HxCDF	ND	0.801		2.44		13C-2,3,4,6,7,8-HxCDF	73.0	28 - 136
2,3,4,6,7,8-HxCDF	ND	0.983		3.06		13C-1,2,3,7,8,9-HxCDF	72.6	29 - 147
1,2,3,7,8,9-HxCDF	ND	1.56		2.31		13C-1,2,3,4,6,7,8-HpCDF	75.2	28 - 143
1,2,3,4,6,7,8-HpCDF	ND	1.20		3.57		13C-1,2,3,4,7,8,9-HpCDF	80.3	26 - 138
1,2,3,4,7,8,9-HpCDF	ND	1.49		3.13		13C-OCDF	77.6	17 - 157
OCDF	ND	6.17		6.17	*	GRS 37Cl-2,3,7,8-TCDD	94.9	35 - 197
Totals						Toxic Equivalent Quotient (TEQ) Data ^e		
Total TCDD	ND	0.986				TEQ (Min):	0	
Total PeCDD	ND	1.17						
Total HxCDD	ND	2.11				a. Sample specific estimated detection limit.		
Total HpCDD	ND	2.85				b. Estimated maximum possible concentration.		
Total TCDF	ND	1.02				c. Method detection limit.		
Total PeCDF	ND	1.58				d. Lower control limit - upper control limit.		
Total HxCDF	ND	0.993				e. TEQ based on World Health Organization Toxic Equivalent Factors (WHO-1997).		
Total HpCDF	ND	1.33						

Analyst: JMH

Approved By: Martha M. Maier

27-Aug-2002 10:33

OPR Results				EPA METHOD 1613			
Matrix:	Effluent	QC Batch No.:	3252	Lab Sample:	0-OPR001		
Sample Size:	1,000 L	Date Extracted:	23-Aug-02	Date Analyzed DB-5:	26-Aug-02	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	
2,3,7,8-TCDD	10.0	9.85	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	76.4	20 - 175	
1,2,3,7,8-PeCDD	50.0	54.6	35 - 71	13C-1,2,3,7,8-PeCDD	68.2	21 - 227	
1,2,3,4,7,8-HxCDD	50.0	53.5	35 - 82	13C-1,2,3,4,7,8-HxCDD	63.5	21 - 193	
1,2,3,6,7,8-HxCDD	50.0	50.5	38 - 67	13C-1,2,3,6,7,8-HxCDD	79.2	25 - 163	
1,2,3,7,8,9-HxCDD	50.0	51.9	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	68.7	26 - 166	
1,2,3,4,6,7,8-HpCDD	50.0	56.2	35 - 70	13C-OCDD	66.0	26 - 397	
OCDD	100	112	78 - 144	13C-2,3,7,8-TCDF	96.1	22 - 152	
2,3,7,8-TCDF	10.0	9.78	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	72.9	21 - 192	
1,2,3,7,8-PeCDF	50.0	53.7	40 - 67	13C-2,3,4,7,8-PeCDF	81.7	13 - 328	
2,3,4,7,8-PeCDF	50.0	55.2	34 - 80	13C-1,2,3,4,7,8-HxCDF	63.2	19 - 202	
1,2,3,4,7,8-HxCDF	50.0	55.1	36 - 67	13C-1,2,3,6,7,8-HxCDF	68.4	21 - 159	
1,2,3,6,7,8-HxCDF	50.0	57.5	42 - 65	13C-2,3,4,6,7,8-HxCDF	74.8	22 - 176	
2,3,4,6,7,8-HxCDF	50.0	57.4	35 - 78	13C-1,2,3,7,8,9-HxCDF	73.4	17 - 205	
1,2,3,7,8,9-HxCDF	50.0	53.7	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	72.7	21 - 158	
1,2,3,4,6,7,8-HpCDF	50.0	57.0	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	76.5	20 - 186	
1,2,3,4,7,8,9-HpCDF	50.0	54.5	39 - 69	13C-OCDF	73.0	26 - 397	
OCDF	100	106	63 - 170	CRS 37Cl-2,3,7,8-TCDD	96.7	31 - 191	

Analyst: JMH

Approved By:

Martha M. Maier 27-Aug-2002 10:33

Sample ID: EFFLUENT				EPA METHOD 1613					
Client Data		Sample Data		Laboratory Data					
Name:	Robertson-Brvan, Inc.	Matrix:	Effluent	Lab Sample:	22660-002	Date Received:	14-Aug-02		
Project:	DCWWTP ERWQA	Sample Size:	1.049 L	QC Batch No.:	3252	Date Extracted:	23-Aug-02		
Date Collected:	13-Aug-02			Date Analyzed DB-5:	26-Aug-02	Date Analyzed DB-225:	NA		
Time Collected:	1530								
Analyte	Conc. (pg/L)	DL ^a	EMPC ^b	MDL ^c	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	1.83		0.637		IS 13C-2,3,7,8-TCDD	70.7	25 - 164	
1,2,3,7,8-PeCDD	ND	2.65		2.81		13C-1,2,3,7,8-PeCDD	71.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	2.83		1.75		13C-1,2,3,4,7,8-HxCDD	71.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	2.94		1.87		13C-1,2,3,6,7,8-HxCDD	75.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	2.87		2.71		13C-1,2,3,4,6,7,8-HpCDD	78.2	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	2.62		3.05		13C-OCDD	79.7	17 - 157	
OCDD	ND	3.65		6.96		13C-2,3,7,8-TCDF	88.5	24 - 169	
2,3,7,8-TCDF	ND	1.18		1.03		13C-1,2,3,7,8-PeCDF	75.1	24 - 185	
1,2,3,7,8-PeCDF	ND	2.50		2.25		13C-2,3,4,7,8-PeCDF	78.6	21 - 178	
2,3,4,7,8-PeCDF	ND	2.17		2.38		13C-1,2,3,4,7,8-HxCDF	64.4	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.762		2.38		13C-1,2,3,6,7,8-HxCDF	64.0	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.775		2.44		13C-2,3,4,6,7,8-HxCDF	72.3	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.975		3.06		13C-1,2,3,7,8,9-HxCDF	76.2	29 - 147	
1,2,3,7,8,9-HxCDF	ND	1.31		2.31		13C-1,2,3,4,6,7,8-HpCDF	78.6	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	1.09		3.57		13C-1,2,3,4,7,8,9-HpCDF	85.2	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	1.36		3.13		13C-OCDF	85.0	17 - 157	
OCDF	ND	3.93		6.17		CRS 37Cl-2,3,7,8-TCDD	97.8	35 - 197	
Toxic Equivalent Quotient (TEQ) Data ^e									
Totals									
Total TCDD	ND	1.83							
Total PeCDD	ND	2.66							
Total HxCDD	ND	2.88							
Total HpCDD	ND	2.63							
Total TCDF	ND	1.18							
Total PeCDF	ND	2.33							
Total HxCDF	ND	0.933							
Total HpCDF	ND	1.22							
a. Sample specific estimated detection limit.									
b. Estimated maximum possible concentration.									
c. Method detection limit.									
d. Lower control limit - upper control limit.									
e. TEQ based on World Health Organization Toxic Equivalent Factors (WHO-1997).									

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Method detection limit.
d. Lower control limit - upper control limit.
e. TEQ based on World Health Organization Toxic Equivalent Factors (WHO-1997).

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

A	The amount detected is below the Lower Calibration Limit of the instrument.
B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The amount detected is above the Upper Calibration Limit of the instrument.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical Interference
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency

CURRENT CERTIFICATIONS

NELAP — (Primary AA: California, Certificate No. 02102CA)

Department of the Navy

U.S. Army Corps of Engineers

U.S. EPA Region 5

Commonwealth of Kentucky — (Certificate No. 90063)

Bureau of Reclamation — Mid-Pacific Region — (MP-470, Res-1.10)

Commonwealth of Kentucky — (Certificate No. 90063)

Commonwealth of Virginia — (Certificate No. 00013)

State of Alaska, Department of Environmental Conservation — (Certificate No. OS-00197)

State of Arkansas, Department of Health — (Approval granted through CA certification)

State of Arkansas, Department of Environmental Quality

State of California — (Certificate No. 1640)

State of Connecticut — (Certificate No. PH-0182)

State of Florida — (Certificate No. 87456)

State of Louisiana, Department of Health and Hospitals — (Certificate No. LA000014)

State of Louisiana, Department of Environmental Quality

State of Mississippi — (Approval granted through CA certification)

State of Nevada — (Certificate No. CA413)

State of New Jersey — (Certificate No. CA003)

State of New York, Department of Health — (Certificate No. 11411)

State of North Carolina — (Certification No. 06700)

State of North Dakota, Department of Health — (Certificate No. R-078)

State of Oregon — (Certificate No. CA413)

State of Pennsylvania — (Certificate No. 68-490)

State of South Carolina — (Certificate No. 87002001)

State of Tennessee — (Certificate No. 02996)

State of Texas — (Certificate No. TX247-1000A)

State of Utah — (Certificate No. E-201)

State of Washington — (Certification No. C091)

State of Wisconsin — (Certificate No. 998036160)

State of Wyoming — (USEPA Region 8 Ref: 8TMS-Q)

ALIA CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

Laboratory Project ID: 2000 Temp: 11 °C
Storage
Secured: Yes ☒ No ☐
Storage ID: W2-2

Project I.D.: DCWTP ERWQA P.O. #: _____ Sampler: David Thomas David Thomas
(Printed Name) (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
<i>David Thomas</i>	8/14/62	4:00 pm	<i>[Signature]</i>	8/14/62	6:03
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			<i>[Signature]</i>	8/14/62	2:00
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Alta Analytical Laboratory
Method of Shipment:

1104 Windfield Way
El Dorado Hills, CA 95762
(916) 933-1640 • Fax (916) 933-0940
www.altalab.com

Shipment ID:

ATTN: Martha Maier

Circle or Add
Analysis(es) Requested

Circle or Add
Analysis(es) Requested

Circle or Add
Analysis(es) Requested

Circle or Add Analysis(es) Requested	STANDARD
EP41613	
EP48290	
EP48280	
EP41668	

Circle or Add
Analysis(es) Requested

STANDARD TAT = 21 DAYS.
Surcharge may be applied
for less than 21 days.

TAT (Analytical Turnaround Times): 1 = 7 days,
2 = 14 days, 3 = 21 days, 4 = 28 days

[illegible]

Special Instructions/Comments: Only Analyze field blanks if detectable concentrations of dioxins and furans are measured in the effluent sample.

SEND
DOCUMENTATION
AND RESULTS TO:

Name: David Thomas
 Company: Robertson-Bryan, Inc. (RBI)
 Address: 9716 Waterman Rd. Suite L2
 City: Elk Grove State: CA Zip: 95624
 Phone: 916-714-1801 Fax: 916-714-1804
 Email: dave@robertson-bryan.com
 Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
 SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater,
 O = Other Blank Page

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other

*Bottle Preservative Type: T = Thiosulfate,
O = Other

WHITE - ORIGINAL

YELLOW - ARCHIVE

PINK - COPY

STANDARD OPERATING PROCEDURE

Attachment 10.B.1

SAMPLE LOG-IN CHECKLIST

ALTA Project No.: 22660Client/Protocol No. N/A

1. Date Samples Arrived: <u>8/14/02</u>	Initials: <u>z</u>	Location: <u>WR-2</u>
2. Time / Date logged in: <u>8/15/02 12:00</u>	Initials: <u>u</u>	Location: <u>WR-2</u>
3. Samples Arrived By: (circle) FedEx UPS World Courier Other: <u>HAND CARRY</u>		
4. Shipping Preservation: (circle) Ice / Blue Ice / Dry Ice / None Temp °C <u>4.1°C</u>		
5. Shipping Container(s) Intact? If not, describe condition in comment section.	YES	NO
	<input checked="" type="checkbox"/>	
6. Shipping Container(s) Custody Seals Present?		NO
Intact? If not intact, describe condition in comment section.		<input checked="" type="checkbox"/>
7. Shipping Documentation Present? (circle) Shipping Label Airbill Tracking Number		NO
		<input checked="" type="checkbox"/>
8. Sample Custody Seal(s) Present? No. of Seals _____ or Seal No.		NO
Intact? If not intact, describe condition in comment section.		<input checked="" type="checkbox"/>
9. Sample Container Intact? If no, indicate sample condition in comment section.	<input checked="" type="checkbox"/>	
10. Chain of Custody (COC) or other Sample Documentation Present?	<input checked="" type="checkbox"/>	
11. COC/Documentation Acceptable? If no, complete COC Anomaly Form.	<input checked="" type="checkbox"/>	
12. Shipping Container (circle): <u>ALTA</u> Client <u>Retain</u> or Return or Disposed		
13. Container(s) and/or Bottle(s) Requested?		<input checked="" type="checkbox"/>
14. Drinking Water Sample? (HRMS Only) If yes, Acceptable Preservation? Y or N		
Preservation Info From? (circle) COC or Sample Container or None Noted		<input checked="" type="checkbox"/>
15. Number of Samples Received: <u>N/A</u>		

Reconciled By: _____
(Signature Required for LCMS Only)

Date Samples Reconciled: _____

Comments:

SEPTEMBER 2002

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

11/19/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID 154
Date Received: 09/24/2002
Chain Of Custody: 31688

CLS ID No.: U1603
CLS Job No.: 851603

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Tributyltin by GC/FPD
2	10 Days	General Mineral
5	10 Days	5 Metals, by EPA Method 200.8
1	10 Days	Sulfide, EPA Method 376.2
1	10 Days	Sulfite, EPA Method 377.1
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	VOCs by 8260/502.2
1	10 Days	Acrolein & Acrylonitrile, EPA 8316
1	10 Days	Asbestos Analysis

Analysis: TBT
Sample ID A2I1138 is the equivalent to your Sample Effluent.

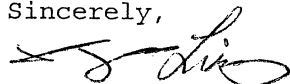
Analysis: EPA Method 8316
Acrolein was detected in the Method Blank but was not detected in Sample Effluent.

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

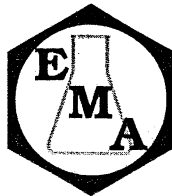
Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director



06 November 2002

E.S. Babcock & Sons, Inc.

EMA Log #: 0210243

Attn: Cathleen S. Iijima

P.O. Box 432

Riverside, California 92507

Project Name: A2I1138

Enclosed are the results of analyses for samples received by the laboratory on 10/30/02 09:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

Janis Columbo

ice President / Laboratory Director

CA ELAP Certification #: 1931

Client Name: E.S. Babcock & Sons, Inc.
Project Name: A2I1138

EMA Log #: 0210243

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A2I1138-01	0210243-01	Water	09/24/02 00:00	10/30/02 09:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: E.S. Babcock & Sons, Inc.
Project Name: A2I1138

EMA Log #: 0210243

Organotin Compounds by GC - FPD

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A2I1138-01 (0210243-01) Water Sampled: 09/24/02 00:00 Received: 10/30/02 09:30									HT-04
Tributyltin	ND	0.005	ug/l	1	2103004	10/30/02	11/04/02	GC - FPD	
Dibutyltin	ND	0.02	"	"	"	"	"	"	
Monobutyltin	ND	0.02	"	"	"	"	"	"	
Surrogate: Triphenyltin		90 %	39-139		"	"	"	"	
Surrogate: Tri-n-propyltin		106 %	39-139		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: E.S. Babcock & Sons, Inc.
Project Name: A211138

EMA Log #: 0210243

Organotin Compounds by GC - FPD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2103004									
Blank (2103004-BLK1)									
					Prepared: 10/30/02 Analyzed: 11/04/02				
Tributyltin	ND	0.005	ug/l						
Dibutyltin	ND	0.02	"						
Monobutyltin	ND	0.02	"						
Surrogate: Tripentyltin	0.151		"	0.250		60	39-139		
Surrogate: Tri-n-propyltin	0.174		"	0.250		70	39-139		
LCS (2103004-BS1)									
					Prepared: 10/30/02 Analyzed: 11/04/02				
Tributyltin	0.21	0.005	ug/l	0.251		83	61-143		
Dibutyltin	0.089	0.02	"	0.249		36	0-163		
Monobutyltin	ND	0.02	"	0.250		4	0-16		
Surrogate: Tripentyltin	0.158		"	0.250		63	39-139		
Surrogate: Tri-n-propyltin	0.179		"	0.250		72	39-139		
LCS Dup (2103004-BSD1)									
					Prepared: 10/30/02 Analyzed: 11/04/02				
Tri-n-propyltin	0.19	0.005	ug/l	0.251		75	61-143	10	30
Tri-n-propyltin	0.085	0.02	"	0.249		34	0-163	4	30
Monobutyltin	ND	0.02	"	0.250		0.9	0-16	127	30
Surrogate: Tripentyltin	0.178		"	0.250		71	39-139		QL-04
Surrogate: Tri-n-propyltin	0.208		"	0.250		83	39-139		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: E.S. Babcock & Sons, Inc.
Project Name: A2I1138

EMA Log #: 0210243

Notes and Definitions

HT-04 : This sample was received outside of the EPA recommended holding time for this analysis.

QL-04 Due to typical low recoveries for this analyte, the RPD will often fall outside the acceptance limits.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CLS -

CHAIN OF CUSTODY

CLS ID No.:

LOG NO. 2681

REPORT TO:

NAME AND ADDRESS
CLS LABS
3249 FITZGERALD RD.
RANCHO CORDOVA, CA 95742

PROJECT MANAGER: **James L. Wang** (916) 638-7301
PROJECT NAME: **WWTTP - EDWQA**

SAMPLED BY:

JOB DESCRIPTION:

SITE LOCATION:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER	
				NO.	TYPE
9/24/02	✓	Effluent	WN	1	amber

PRESERVATIVES

☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA 95742

☒ OTHER

Babcock

CLIENT JOB NUMBER

U1003

DESTINATION LABORATORY

☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA 95742

☒ OTHER

Babcock

ANALYSIS REQUESTED

TBT FY-024/005

+QC

FIELD CONDITIONS:

A27 1138

COMPOSITE:

OUT

TURN AROUND TIME

1 DAY
2 DAY
5 DAY
10 DAY

SPECIAL INSTRUCTIONS

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES: (1) HCL (2) HNO₃

(3) = COLD (4)

INVOICE TO:

PO. #

QUOTE #

RELINQUISHED BY (SIGN)

PRINT NAME / COMPANY

DATE / TIME

RECEIVED BY (SIGN)

PRINT NAME / COMPANY

RECD AT LAB BY:

DATE / TIME:

CONDITIONS / COMMENTS:

SHIPPED BY:

☐ FED X☐ UPS☐ OTHER

AIR BILL #

12c

Courier

A Martinez / CLS

9/26/02 1044

9/26/02 8:28 Angie Brown

Angie Brown / ES

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: W020924F
Instrument ID: INMIX
Analyst ID: SALENAG
Matrix: WW

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 09/25/2002
Date Reported: 10/10/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1I / Effluent				
Hardness as CaCO ₃	N/A	56	1.0	1.0
Fluoride	N/A	0.29	0.10	1.0
Chloride	N/A	64	2.5	5.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	10	2.5	5.0
Sulfate	N/A	78	2.5	5.0
Methylene Blue Active Substances	N/A	0.13, J	0.50	1.0
Specific Conductance	N/A	710	Note 2	1.0
Total Dissolved Solids	N/A	480	1.0	1.0
2B / Deer Creek				
Hardness as CaCO ₃	N/A	270	1.0	1.0
Fluoride	N/A	0.28	0.10	1.0
Chloride	N/A	15	0.50	1.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.12, J	0.50	1.0
Sulfate	N/A	17	0.50	1.0
Methylene Blue Active Substances	N/A	0.024, J	0.50	1.0
Specific Conductance	N/A	460	Note 2	1.0
Total Dissolved Solids	N/A	290	1.0	1.0

J = Estimated value.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: 09/25/2002
Date Analyzed: 09/30/2002
Date Reported: 10/02/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: M020925B
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / Effluent				
Ba (Barium)	7440393	1.7, J	100	1.0
Be (Beryllium)	7440417	ND	1.0	1.0
Cu (Copper)	7440508	21	0.50	1.0
Fe (Iron)	7439896	14, J	100	1.0
Mn (Manganese)	7439965	0.50, J	20	1.0
2D / Deer Creek				
Ba (Barium)	7440393	12, J	100	1.0
Be (Beryllium)	7440417	ND	1.0	1.0
Cu (Copper)	7440508	1.3	0.50	1.0
Fe (Iron)	7439896	67, J	100	1.0
Mn (Manganese)	7439965	13, J	20	1.0
3A / Blank				
Ba (Barium)	7440393	ND	100	1.0
Be (Beryllium)	7440417	ND	1.0	1.0
Cu (Copper)	7440508	0.82	0.50	1.0
Fe (Iron)	7439896	ND	100	1.0
Mn (Manganese)	7439965	ND	20	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: 09/25/2002
Date Analyzed: 09/26/2002
Date Reported: 10/02/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: M020925B
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1G / Effluent				
Ba (Barium)	7440393	1.6, J	100	1.0
Be (Beryllium)	7440417	ND	1.0	1.0
Cu (Copper)	7440508	20	0.50	1.0
Fe (Iron)	7439896	10, J	100	1.0
Mn (Manganese)	7439965	0.70, J	20	1.0
2C / Deer Creek				
Ba (Barium)	7440393	14, J	100	1.0
Be (Beryllium)	7440417	ND	1.0	1.0
Cu (Copper)	7440508	1.7	0.50	1.0
Fe (Iron)	7439896	47, J	100	1.0
Mn (Manganese)	7439965	10, J	20	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 10/01/2002
Date Reported: 10/10/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: W020924F
Instrument ID: NONE
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / Effluent Sulfide	N/A	2.4	1.0	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Sulfite, EPA Method 377.1

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 09/24/2002
Date Reported: 10/10/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: W020924F
Instrument ID: NONE
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / Effluent Sulfite	N/A	16	5.0	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: 09/25/2002
Date Analyzed: 09/25/2002
Date Reported: 10/10/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: W020924F
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / Effluent				
Ammonia as Nitrogen	N/A	0.27	0.10	1.0
2A / Deer Creek				
Ammonia as Nitrogen	N/A	0.21	0.10	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: 09/26/2002
Date Analyzed: 09/27/2002
Date Reported: 10/10/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: W020924F
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / Effluent				
Total Phosphorus	N/A	3.7	0.50	10
2A / Deer Creek				
Total Phosphorus	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: IC102020924
Instrument ID: IC001
Analyst ID: ANDORAB
Matrix: WW

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 09/24/2002
Date Reported: 09/27/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1G / Effluent				
Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 09/25/2002
Date Reported: 09/27/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U1603-1D
Job No.: 851603
COC Log No.: 31688
Batch No.: 33590
Instrument ID: MS05
Analyst ID: JENNDC
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	10.7	10.0	107	66	135
Toluene-d8 N/A	10.3	10.0	103	72	125
p-Bromofluorobenzene 460004	11.1	10.0	111	73	119

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	12	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	87	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	1.2	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 09/25/2002
Date Reported: 09/27/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U1603-1D
Job No.: 851603
COC Log No.: 31688
Batch No.: 33590
Instrument ID: MS05
Analyst ID: JENND
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 09/26/2002
Date Reported: 09/27/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: 33604
Instrument ID: GC016
Analyst ID: JENNDG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1C / Effluent 1-chloro-2-fluorobenzene 348-51-6	22.2	20.0	111	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent 2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 09/24/2002
Date Received: 09/24/2002
Date Extracted: N/A
Date Analyzed: 10/04/2002
Date Reported: 10/10/2002

Lab Contact: James Liang
Lab ID No.: U1603
Job No.: 851603
COC Log No.: 31688
Batch No.: 33646
Instrument ID: LC002
Analyst ID: DAVIDC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Westmont, NJ
(856) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Wednesday, October 02, 2002

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: U1603
Attention: James Liang
Ref Number: CA024079
Date Sampled: 09-24-02
Date Filtered: 09-25-02
Date Analyzed: 09-27-02

Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
“Determination of Asbestos Structures Over 10µm In Length
in Drinking Water”; by Brackett, Clark & Millette


SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Effluent**	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

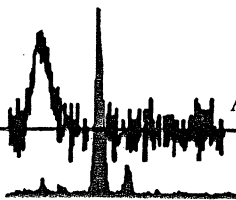
California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

**Sample was received above the maximum 4 degrees Celsius. This may have affected the analytical result.


Analyst


Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620



CLS - ibs

CHAIN OF CUSTOD.

CLS ID NO.: 41603

LOG NO. 1690

REPORT TO:			CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:					
NAME AND ADDRESS			EID 154		PRESERVATIVES		COMPOSITE:					
9766 Waterman Rd. Suite L2			DESTINATION LABORATORY									
EIK Grove, CA 95624			<input checked="" type="checkbox"/> CLS (916) 638-7301									
PROJECT MANAGER			3249 FITZGERALD RD.									
David Thomas (916) 714-1805			RANCHO CORDOVA, CA.									
PROJECT NAME			OTHER									
DCWWTP ERWRA												
SAMPLED BY												
David Thomas												
JOB DESCRIPTION												
Effluent & creek sampling												
SITE LOCATION												
Deer Creek WWTP												
DATE		TIME	SAMPLE IDENTIFICATION		MATRIX	CONTAINER NO.	TYPE	TURN AROUND TIME		SPECIAL INSTRUCTIONS		
9/24/02	10:25		Effluent		WW	1	250mlP	1 DAY		NPDES/SIP Reporting L-1		
9/24/02	10:15		Effluent		WW	1	250mlP 4	5 DAY		J-Flags		
9/24/02	10:25		Effluent		WW	1	500mlP	2 DAY				
9/23/02	10:30		Blank		RW	1	500mlP 2	1 DAY				
9/24/02	10:15		Effluent		WW	1	500mlP 2					
9/24/02	9:45		Deer Creek		FW	1	500mlP 2					
9/24/02	9:45		Deer Creek		FW	1	500mlP					
9/24/02	10:15		Effluent		WW	1	500mlP					
9/24/02	10:15		Effluent		WW	1	1-LP					
9/24/02	9:45		Deer Creek		FW	1	1-LP					
SUSPECTED CONSTITUENTS									PRESERVATIVES:		(3) = COLD (4)	
									(1) HCL (2) HNO3			
RELINQUISHED BY (SIGN)			PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY			
David Thomas			David Thomas / RB1		9/24/02 11:10							
RECD AT LAB BY:			DATE / TIME:		9/24/02 11:10		CONDITIONS / COMMENTS:					
SHIPPED BY:			DATE / TIME:		9/24/02 11:10		AIR BILL #					
FEDX			UPS		OTHER							

CLS - lbs

CHAIN OF CUSTOD.

CLS ID NO.: 41003

LOG NO. J1688

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:			
NAME AND ADDRESS				FID 154		PRESERVATIVES		COMPOSITE:			
7766 Waterman Rd. Suite L2				DESTINATION LABORATORY							
EIK Grove CA 95624				CLS (916) 638-7301							
PROJECT MANAGER				3249 FITZGERALD RD.							
PROJECT NAME				RANCHO CORDOVA, CA.							
DEWTP ERWBA				95742							
SAMPLED BY				OTHER							
JOB DESCRIPTION											
Effluent & Creek Sampling											
SITE LOCATION				Deer Creek WWTP							
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE	1	2	5	10	SPECIAL INSTRUCTIONS	
9/24/02	10:15	Effluent	WW	1	500mL	X				NPDES Reporting Limits	
9/24/02	9:45	Deer Creek	FW	1	500mL	X				5-Flags	
9/24/02	10:15	Effluent	WW	2	1-LA	X					
9/24/02	10:15	Effluent	WW	2	1-LA	X					
9/24/02	10:25	Effluent	WW	2	VOA	X					
9/24/02	10:25	Effluent	WW	3	VOA	X					
9/24/02	10:25	Effluent	WW	2	VOA	X					
SUSPECTED CONSTITUENTS						PRESERVATIVES: (1) HCL (2) HNO ₃ (3) = COLO (4) H ₂ SO ₄					
						SAMPLE RETENTION TIME					
						DATE / TIME					
RELINQUISHED BY (SIGN)						PRINT NAME / COMPANY		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
David Thomas						David Thomas/RBI		9/24/02 11:10			
REC'D AT LAB BY:						DATE / TIME:		CONDITIONS / COMMENTS:			
SHIPPED BY:						DATE / TIME:		AIR BILL #			
9/24/02 11:10						092402 1110					
FED X						UPS		OTHER			

OCTOBER 2002



Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

11/19/2002

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 10/15/2002
Chain Of Custody: 29412,31693

CLS ID No.: U2224
CLS Job No.: 852224

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Tributyltin by GC/FPD
2	10 Days	General Mineral
5	10 Days	5 Metals, by EPA Method 200.8
1	10 Days	Sulfide, EPA Method 376.2
1	10 Days	Sulfite, EPA Method 377.1
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	VOCs by 8260B/502.2
1	10 Days	Acrolein & Acrylonitrile, EPA 8316
1	10 Days	Asbestos Analysis

Analysis: TBT

The Sample ID A2J0771-01 is the equivalent to your Sample ID Effluent.

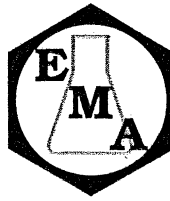
These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director



05 November 2002

E.S. Babcock & Sons, Inc.
Attn: Leyla D. Perez
P.O. Box 432
Riverside, California 92507

EMA Log #: 0210248

Project Name: No Project

Enclosed are the results of analyses for samples received by the laboratory on 10/30/02 09:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

A handwritten signature in black ink, appearing to read 'Janis Columbo', is written over the printed name.

Janis Columbo

ice President / Laboratory Director

CA ELAP Certification #: 1931

Client Name: E.S. Babcock & Sons, Inc.
Project Name: No Project

EMA Log #: 0210248

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A2J0771-01	0210248-01	Water	10/15/02 00:00	10/30/02 09:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: E.S. Babcock & Sons, Inc.
Project Name: No Project

EMA Log #: 0210248

Organotin Compounds by GC - FPD

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A2J0771-01 (0210248-01) Water Sampled: 10/15/02 00:00 Received: 10/30/02 09:30									HT-04
Tributyltin	ND	0.005	ug/l	1	2103004	10/30/02	11/04/02	GC - FPD	
Dibutyltin	ND	0.02	"	"	"	"	"	"	
Monobutyltin	ND	0.02	"	"	"	"	"	"	
Surrogate: Tripentyltin		134 %	39-139		"	"	"	"	
Surrogate: Tri-n-propyltin		149 %	39-139		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: E.S. Babcock & Sons, Inc.
 Project Name: No Project

EMA Log #: 0210248

Organotin Compounds by GC - FPD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2103004										
Blank (2103004-BLK1)										
				Prepared: 10/30/02 Analyzed: 11/04/02						
Tributyltin	ND	0.005	ug/l							
Dibutyltin	ND	0.02	"							
Monobutyltin	ND	0.02	"							
Surrogate: Triphenyltin	0.151		"	0.250		60	39-139			
Surrogate: Tri-n-propyltin	0.174		"	0.250		70	39-139			
LCS (2103004-BS1)										
				Prepared: 10/30/02 Analyzed: 11/04/02						
Tributyltin	0.21	0.005	ug/l	0.251		83	61-143			
Dibutyltin	0.089	0.02	"	0.249		36	0-163			
Monobutyltin	ND	0.02	"	0.250		4	0-16			
Surrogate: Triphenyltin	0.158		"	0.250		63	39-139			
Surrogate: Tri-n-propyltin	0.179		"	0.250		72	39-139			
LCS Dup (2103004-BSD1)										
				Prepared: 10/30/02 Analyzed: 11/04/02						
tyltin	0.19	0.005	ug/l	0.251		75	61-143	10	30	
.yltin	0.085	0.02	"	0.249		34	0-163	4	30	
Monobutyltin	ND	0.02	"	0.250		0.9	0-16	127	30	QL-04
Surrogate: Triphenyltin	0.178		"	0.250		71	39-139			
Surrogate: Tri-n-propyltin	0.208		"	0.250		83	39-139			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: E.S. Babcock & Sons, Inc.
Project Name: No Project

EMA Log #: 0210248

Notes and Definitions

HT-04 This sample was received outside of the EPA recommended holding time for this analysis.

QL-04 Due to typical low recoveries for this analyte, the RPD will often fall outside the acceptance limits.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CLS -

CHAIN OF CUSTODY

CLS ID No.:

LOG NC. 28144

REPORT TO:

NAME OF

CL'S LABS

3249 FITZGERALD RD.

RANCHO CORDOVA, CA 95742

PROJECT MANAGER

JAMES L. LAM

PHONE #

(916) 638-7301

PROJECT NAME

DEWUSTP ERDWA

SAMPLED BY

DAVID THOMAS

JOB DESCRIPTION

CLIENT JOB NUMBER

112224

DESTINATION LABORATORY

☐ CLS (916) 638-7301

3249 FITZGERALD RD.

RANCHO CORDOVA, CA.

95742

☒ OTHER

Babcock

SITE LOCATION

DATE TIME SAMPLE IDENTIFICATION

10/5/02

Effluent

MATRIX NO. TYPE

WW

2

1/1/02

PRESERVATIVES

3

ANALYSIS REQUESTED

TBT EU 024/025

X

TURN AROUND TIME

1 DAY

2 DAY

5 DAY

10 DAY

X

SPECIAL INSTRUCTIONS

INVOICE TO:

PO. #

QUOTE #

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES:

(1) HCL

(2) HNO₃

(3) = GOLD

(4)

RELINQUISHED BY (SIGN)

PRINT NAME / COMPANY

DATE / TIME

RECEIVED BY (SIGN)

PRINT NAME / COMPANY

RECEIVED BY:

Miguel Brown

DATE / TIME:

10/17/02 8:40

CONDITIONS / COMMENTS:

20°C

SHIPPED BY:

☐

FED X

☐

UPS

☒

OTHER

650 - Cammer

AIR BILL #

Analysis Report: General Mineral Analysis

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: W021015E
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / Effluent				
Hardness as CaCO ₃	N/A	22	1.0	1.0
Fluoride	N/A	0.29	0.10	1.0
Chloride	N/A	67	2.5	5.0
Nitrite (as N)	N/A	0.15, J	0.40	1.0
Nitrate (as N)	N/A	19	2.5	5.0
Sulfate	N/A	82	2.5	5.0
Methylene Blue Active Substances	N/A	0.14, J	0.50	1.0
Specific Conductance	N/A	760	Note 2	1.0
Total Dissolved Solids	N/A	460	1.0	1.0
3C / Deer Creek				
Hardness as CaCO ₃	N/A	250	1.0	1.0
Fluoride	N/A	0.28	0.10	1.0
Chloride	N/A	13	0.50	1.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.16, J	0.50	1.0
Sulfate	N/A	19	0.50	1.0
Methylene Blue Active Substances	N/A	ND	0.50	1.0
Specific Conductance	N/A	470	Note 2	1.0
Total Dissolved Solids	N/A	290	1.0	1.0

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: 10/16/2002
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U2224-1E
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: M021016A
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	20, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	28	0.50	200.8	1.0
Fe (Iron)	7439896	25, J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U2224-3B
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: M021016A
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WATER

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: 10/16/2002
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002
Client ID No.: Deer Creek

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	14,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	2.1	0.50	200.8	1.0
Fe (Iron)	7439896	39,J	100	200.7	1.0
Mn (Manganese)	7439965	3.0,J	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: 10/16/2002
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U2224-1D
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: M021016A
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	2.8, J	100	200.7	1.0
Be (Beryllium)	7440417	0.15, J	1.0	200.7	1.0
Cu (Copper)	7440508	29	0.50	200.8	1.0
Fe (Iron)	7439896	23, J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/14/2002
Date Received: 10/15/2002
Date Extracted: 10/16/2002
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: U2224-2A
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: M021016A
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	ND	0.50	200.8	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: 10/16/2002
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: U2224-3A
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: M021016A
Instrument ID: IP004
Analyst ID: SALENAG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	13, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	1.3	0.50	200.8	1.0
Fe (Iron)	7439896	65, J	100	200.7	1.0
Mn (Manganese)	7439965	6.0, J	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Sulfide, EPA Method 376.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/15/2002
Date Reported: 10/25/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: W021015
Instrument ID: NONE
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1B / Effluent Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Sulfite, EPA Method 377.1

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/16/2002
Date Reported: 10/25/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: W021015E
Instrument ID: NONE
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / Effluent Sulfite	N/A	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: 10/18/2002
Date Analyzed: 10/18/2002
Date Reported: 10/25/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: W021015E
Instrument ID: UV002
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1G / Effluent				
Ammonia as Nitrogen	N/A	0.17	0.10	1.0
3D / Deer Creek				
Ammonia as Nitrogen	N/A	0.13	0.10	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: 10/17/2002
Date Analyzed: 10/17/2002
Date Reported: 10/25/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: W021015E
Instrument ID: UV002
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1G / Effluent				
Total Phosphorus	N/A	3.3	0.50	10
3D / Deer Creek				
Total Phosphorus	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/16/2002
Date Reported: 10/17/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: IC1021016
Instrument ID: IC101
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/22/2002
Date Reported: 10/24/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U2224-1J
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: 33763
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	9.49	10.0	95	66	135
Toluene-d8 N/A	10.2	10.0	102	72	125
p-Bromofluorobenzene 460004	11.8	10.0	118	73	125

J = Estimated value.

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	6.9	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	42	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	0.57	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/22/2002
Date Reported: 10/24/2002
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U2224-1J
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: 33763
Instrument ID: MS05
Analyst ID: TAIJUNS
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	0.51, J	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/16/2002
Date Reported: 10/21/2002

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: 33733
Instrument ID: GC016
Analyst ID: SCOTT
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1I / Effluent					
1-chloro-2-fluorobenzene 348-51-6	20.6	20.0	103	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1I / Effluent				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U2224
Job No.: 852224
COC Log No.: 29412,31693
Batch No.: 33755
Instrument ID: LC002
Analyst ID: DAVIDC
Matrix: WW

Date Sampled: 10/15/2002
Date Received: 10/15/2002
Date Extracted: N/A
Date Analyzed: 10/21/2002
Date Reported: 10/23/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
II / Effluent				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Westmont, NJ
(856) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Thursday, October 24, 2002

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: U2224 – DCWWTP ERWQA
Attention: James Liang
Ref Number: CA024388
Date Sampled: 10-15-02
Date Filtered: 10-16-02
Date Analyzed: 10-23-02

Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
“Determination of Asbestos Structures Over 10µm In Length
in Drinking Water”; by Brackett, Clark & Millette

SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Effluent	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.



Analyst



Approved
Signatory

ACCREDITATIONS: CA STATE ELAP #1620

CLS - Jobs

CLS - Jobs

[illegible]

CLS - abs

CHAIN OF CUSTOD.

CLS ID No.; 4224

LOG NO. 31693

REPORT TO:			CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:				
NAME AND ADDRESS			DESTINATION LABORATORY								
Robertson-Bryon, Inc.			ED-154								
9766 Waterman Rd. Site L2											
EIK Cove, CA 95624											
PROJECT MANAGER			CLC (916) 638-7301								
PROJECT NAME			3249 FITZGERALD RD.								
PROJECT NAME			RANCHO CORDOVA, CA.								
PROJECT NAME			95742								
SAMPLED BY			OTHER								
JOB DESCRIPTION											
SITE LOCATION											
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE	TURN AROUND TIME				SPECIAL INSTRUCTIONS	
10/15/02	11:20	Effluent	WW	1	500ml P	1 DAY	2 DAY	5 DAY	10 DAY	NPDES Reporting Limits	
10/15/02	11:20	Deer Creek	FW	1	500ml P					J-Flags	
10/15/02	11:20	Effluent	WW	2	1-LA						
10/15/02	11:20	Effluent	WW	2	1-LA						
10/15/02	11:20	Effluent	WW	2	VOA						
10/15/02	11:20	Effluent	WW	3	VOA						
10/15/02	11:20	Effluent	WW	2	VOA 1						
SUSPECTED CONSTITUENTS						SAMPLE RETENTION TIME		PRESERVATIVES:		(3) = COLD (4) H ₂ SO ₄	
RELINQUISHED BY (SIGN)						DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
David Thomas						10/15/02 12:30		David Thomas / RB1		H ₂ SO ₄	
RECD AT LAB						DATE TIME		DATE TIME		DATE TIME	
10/15/02						10/15/02 12:30		10/15/02 12:30		10/15/02 12:30	
SHIPPED BY:						DATE TIME		DATE TIME		DATE TIME	
10/15/02						10/15/02 12:30		10/15/02 12:30		10/15/02 12:30	
FED X						UPS		OTHER		AIR BILL #	

NOVEMBER 2002



Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

RECEIVED
JAN 07 2003

01/03/2003

Attention: David Thomas

Reference: Analytical Results

BY: _____

Project Name: DCWWTP-ERWQA
Project No.: EID 154
Date Received: 11/19/2002
Chain Of Custody: 29413,4,5,7

CLS ID No.: U3163
CLS Job No.: 853163

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Glyphosate Analysis
1	10 Days	2BisEHA by 506
2	10 Days	General Mineral
5	10 Days	5 Metals, by EPA Method 200.8
1	10 Days	Sulfide & NO2
1	10 Days	Sulfite, EPA Method 377.1
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
1	10 Days	EPA Method 548.1
1	10 Days	EPA Method 549.1
1	10 Days	Carbamate and Urea Pesticides, EPA 632
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	Ethylene Dibromide, EPA Method 504
1	10 Days	Organochlorine Pesticides, EPA 8081A
1	10 Days	Organophosphorus Pesticides by GC-NPD
1	10 Days	Chlorinated Acid Herbicides
1	10 Days	VOCs By 8260B/502.2
1	10 Days	SVOCs by 8270/610
1	10 Days	Acrolein & Acrylonitrile, EPA 8316

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

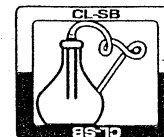


Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

Clinical Laboratory of San Bernardino, Inc.



Analysis Report: Lab Job M2A271X

Client: CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project No.:
Contact: Project Manager
Phone: (916)638-7301

Project: Client Job No U3163

Sampled By: NOT LISTED
Date Sampled: 11/19/02 00:00:00
Date Received: 11/21/02 10:30:00
Date Started: 11/25/02
Date Completed: 12/05/02
Date Reported: 12/30/02 09:27:24

Lab Contact:
Job No.:
COC Log No.:
Lab ID No.: M2A271X-1A
Batch No.:
Instrument ID: VAR
Analyst ID: ORGSTAFF
Matrix: WATER

Sample: EFFLUENT

Analyte	CAS No.	Results (ug/L)	DLR (ug/L)	Method
Di(2-ethylhexyl) adipate	103-23-1	ND	5.0	EPA 506
Diquat	85-00-7	ND	4.0	EPA 549.1
Endothall	145-73-3	ND	45	EPA 548.1
Glyphosate	1071-83-6	ND	25	EPA 547

ND = Not detected at or above indicated DLR; Detection Limit for Reporting

Manager: _____

Director: _____

CALIFORNIA LABORATORY SERVICES

Analysis Report: General Mineral Analysis

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: W021119G
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WW

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/20/2002
Date Reported: 12/10/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / EFFLUENT				
Hardness as CaCO ₃	N/A	66	1.0	1.0
Fluoride	N/A	ND	0.10	1.0
Chloride	N/A	64	2.5	5.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	24	2.5	5.0
Sulfate	N/A	67	2.5	5.0
Methylene Blue Active Substances	N/A	0.12, J	0.50	1.0
pH	N/A	6.9	Note 1	1.0
Specific Conductance	N/A	790	Note 2	1.0
Total Dissolved Solids	N/A	490	1.0	1.0
2A / DEER CREEK				
Hardness as CaCO ₃	N/A	140	1.0	1.0
Fluoride	N/A	0.51	0.10	1.0
Chloride	N/A	14	0.50	1.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	0.36, J	0.50	1.0
Sulfate	N/A	21	2.5	5.0
Methylene Blue Active Substances	N/A	ND	0.50	1.0
pH	N/A	8.2	Note 1	1.0
Specific Conductance	N/A	480	Note 2	1.0
Total Dissolved Solids	N/A	300	1.0	1.0

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/21/2002
Date Analyzed: 11/22/2002
Date Reported: 12/17/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1C
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: M021121B
Instrument ID: INMIX
Analyst ID: HEMANTP
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	2.9,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	31	0.50	200.8	1.0
Fe (Iron)	7439896	21,J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Dissolved Metals, EPA Methods 200

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/21/2002
Date Analyzed: 11/22/2002
Date Reported: 12/17/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: U3163-2C
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: M021121B
Instrument ID: INMIX
Analyst ID: HEMANTP
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	16,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	4.2	0.50	200.8	1.0
Fe (Iron)	7439896	54,J	100	200.7	1.0
Mn (Manganese)	7439965	7.6,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Metals, EPA Methods 200

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/21/2002
Date Analyzed: 11/29/2002
Date Reported: 12/17/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1B
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: M021121B
Instrument ID: INMIX
Analyst ID: HEMANTP
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	2.8,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	35	0.50	200.8	1.0
Fe (Iron)	7439896	30,J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Metals, EPA Methods 200

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/21/2002
Date Analyzed: 11/29/2002
Date Reported: 12/17/2002
Client ID No.: DEER CREEK

Lab Contact: James Liang
Lab ID No.: U3163-2B
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: M021121B
Instrument ID: INMIX
Analyst ID: HEMANTP
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	18.4,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	4.2	0.50	200.8	1.0
Fe (Iron)	7439896	88,J	100	200.7	1.0
Mn (Manganese)	7439965	10.2,J	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Metals, EPA Methods 200

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/18/2002
Date Received: 11/19/2002
Date Extracted: 11/21/2002
Date Analyzed: 11/29/2002
Date Reported: 12/17/2002
Client ID No.: BLANK

Lab Contact: James Liang
Lab ID No.: U3163-3A
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: M021121B
Instrument ID: INMIX
Analyst ID: HEMANTP
Matrix: WATER

BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	1.8	0.50	200.8	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Sulfide, EPA Method 376.2

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/22/2002
Date Reported: 12/10/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: W021119G
Instrument ID: NONE
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / EFFLUENT Sulfide	N/A	4.6	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Sulfite, EPA Method 377.1

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/19/2002
Date Reported: 12/10/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: W021119G
Instrument ID: NONE
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1G / EFFLUENT Sulfite	N/A	7.0	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/23/2002
Date Analyzed: 11/23/2002
Date Reported: 12/10/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: W021119G
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / EFFLUENT				
Ammonia as Nitrogen	N/A	0.24	0.10	1.0
2D / DEER CREEK				
Ammonia as Nitrogen	N/A	0.15	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Carbamate and Urea Pesticides, EPA Method 632

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/22/2002
Date Analyzed: 12/02/2002
Date Reported: 12/09/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04200
Instrument ID: LC001
Analyst ID: DAVIDC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1H / EFFLUENT				
Carbofuran	1563662	ND	5.0	1.0
Oxamyl	23135220	ND	20	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/24/2002
Date Analyzed: 11/24/2002
Date Reported: 12/10/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: W021119G
Instrument ID: UV002
Analyst ID: CINDYG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / EFFLUENT				
Total Phosphorus	N/A	3.3	0.50	10
2D / DEER CREEK				
Total Phosphorus	N/A	0.16	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/19/2002
Date Reported: 11/22/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: IC10202119A
Instrument ID: IC001
Analyst ID: ANDORAB
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1D / EFFLUENT Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: EDB and DBCP, EPA Method 504

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/25/2002
Date Analyzed: 11/25/2002
Date Reported: 11/27/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04211
Instrument ID: PGC05
Analyst ID: NGOCDUNG
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1L / EFFLUENT				
Ethylene dibromide	106934	ND	0.020	1.0
1,2-Dibromo-3-chloropropane	96128	ND	0.010	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry 

Analysis Report: Organochlorine Pesticides, EPA Method 8081A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/25/2002
Date Analyzed: 12/02/2002
Date Reported: 12/04/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1H
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04207
Instrument ID: GC021
Analyst ID: NGOCDUNG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4,5,6-tetrachloro-m-xylene 877098	0.199	0.250	80	43	147
Decachlorobiphenyl 2051243	0.142	0.250	57	43	139

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Aldrin	309002	ND	0.0050	1.0
alpha BHC	319846	ND	0.010	1.0
beta BHC	319857	ND	0.0050	1.0
delta-BHC	319868	ND	0.0050	1.0
Lindane	58899	ND	0.020	1.0
Chlordane	57749	ND	0.10	1.0
4,4'-DDD	72548	ND	0.050	1.0
4,4'-DDE	72559	ND	0.050	1.0
4,4'-DDT	50293	ND	0.010	1.0
Dieldrin	60571	ND	0.010	1.0
Endosulfan I	959988	ND	0.020	1.0
Endosulfan II	33213659	ND	0.010	1.0
Endosulfan sulfate	1031078	ND	0.050	1.0
Endrin	72208	ND	0.010	1.0
Endrin aldehyde	7421934	ND	0.010	1.0
Heptachlor	76448	ND	0.010	1.0
Heptachlor epoxide	1024573	ND	0.010	1.0
Methoxychlor	72435	ND	10	1.0
Toxaphene	8001352	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry 

Analysis Report: Organophosphorus Pesticides, EPA Method 8141A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/25/2002
Date Analyzed: 12/03/2002
Date Reported: 12/04/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1H
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04216
Instrument ID: GC003
Analyst ID: NGOCDUNG
Matrix: WW

EFFLUENT				
Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Alachlor	15972608	ND	1.0	1.0
Atrazine	1912249	ND	1.0	1.0
Chlorpyrifos	2921882	ND	1.0	1.0
Diazinon	333415	ND	0.25	1.0
Molinate	2212671	ND	2.0	1.0
Simazine	122349	ND	4.0	1.0
Thiobencarb	28249776	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Chlorinated Acid Herbicides, EPA Method 8151A
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/25/2002
Date Analyzed: 12/08/2002
Date Reported: 12/10/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1H
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04217
Instrument ID: GC021
Analyst ID: COMPUTER
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2,4-Dichlorophenylacetic acid 19719289	0.576	0.250	230 (MA)	50	150

MA = Recovery data is outside standard QC limits due to matrix interference. LCS recovery data validates methodology.

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-D	94757	ND	1.0	1.0
Silvex (2,4,5-TP)	93721	ND	1.0	1.0
Dalapon	75990	ND	2.0	1.0
Dinoseb	88857	ND	1.0	1.0
Bentazon	25057890	ND	2.0	1.0
Picloram	1918021	ND	1.0	1.0
Pentachlorophenol	87865	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/25/2002
Date Reported: 11/27/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1L
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: 33946
Instrument ID: MS05
Analyst ID: ROOSEVELTG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	11.5	10.0	115	66	135
Toluene-d8 N/A	10.4	10.0	104	72	125
p-Bromofluorobenzene 460004	12.3	10.0	123	73	125

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	ND	0.50	1.0
Bromodichloromethane	75274	6.2	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	48	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	0.37,J	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	ND	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/25/2002
Date Reported: 11/27/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1L
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: 33946
Instrument ID: MS05
Analyst ID: ROOSEVELTG
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 12/03/2002
Date Reported: 12/05/2002

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: 33987
Instrument ID: GC016
Analyst ID: ROOSEVELTG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1K / EFFLUENT					
1-chloro-2-fluorobenzene 348-51-6	19.9	20.0	99	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1K / EFFLUENT				
2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/25/2002
Date Analyzed: 12/04/2002
Date Reported: 12/12/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1H
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04214
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

SURROGATE


Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
2-Fluorophenol	367124	54.1	75.0	72	21	110
Phenol-d5	4165622	57.6	75.0	77	10	110
Nitrobenzene-d5	4665600	38.1	50.0	76	35	114
2-Fluorobiphenyl	321608	42.2	50.0	84	43	116
2,4,6-Tribromophenol	118796	68.5	75.0	91	10	123
Terphenyl-d14	98904439	41.8	50.0	84	33	141

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,2-Diphenylhydrazine	122667	ND	1.0	1.0
N-Nitrosodimethylamine	62759	ND	5.0	1.0
Benzidine	92875	ND	5.0	1.0
Bis(2-chloroethoxy)methane	111911	ND	5.0	1.0
Bis(2-chloroethyl)ether	111444	ND	1.0	1.0
Bis(2-chloroisopropyl)ether	108601	ND	10	1.0
Bis(2-ethylhexyl)phthalate	117817	ND	5.0	1.0
4-Bromophenyl phenyl ether	101553	ND	10	1.0
Butylbenzyl phthalate	85687	ND	10	1.0
2-Chloronaphthalene	91587	ND	10	1.0
4-Chlorophenyl phenyl ether	7005723	ND	5.0	1.0
Di-n-butylphthalate	84742	ND	10	1.0
3,3'-Dichlorobenzidine	91941	ND	5.0	1.0
Diethylphthalate	84662	ND	2.0	1.0
Dimethylphthalate	131113	ND	2.0	1.0
24DNT (2,4-Dinitrotoluene)	121142	ND	5.0	1.0
26DNT (2,6-Dinitrotoluene)	606202	ND	5.0	1.0
Di-n-octylphthalate	117840	ND	10	1.0
Hexachlorobenzene	118741	ND	1.0	1.0
Hexachlorobutadiene	87683	ND	10	1.0
Hexachlorocyclopentadiene	77474	ND	5.0	1.0
Hexachloroethane	67721	ND	2.0	1.0
Isophorone	78591	ND	1.0	1.0
NB (Nitrobenzene)	98953	ND	10	1.0
N-Nitrosodiphenylamine	86306	ND	1.0	1.0
N-Nitroso-di-n-propylamine	621647	ND	5.0	1.0
4-Chloro-3-methylphenol	59507	ND	5.0	1.0
2-Chlorophenol	95578	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry 

Analysis Report: Semivolatile Organic Compounds, EPA Method 8270C
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/25/2002
Date Analyzed: 12/04/2002
Date Reported: 12/12/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1H
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04214
Instrument ID: MS03
Analyst ID: ROGERY
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
2,4-Dichlorophenol	120832	ND	2.0	1.0
2,4-Dimethylphenol	105679	ND	3.0	1.0
2,4-Dinitrophenol	51285	ND	5.0	1.0
2-Methyl-4,6-dinitrophenol	534521	ND	10	1.0
2-Nitrophenol	88755	ND	10	1.0
4-Nitrophenol	100027	ND	10	1.0
Phenol	108952	ND	1.0	1.0
2,4,6-Trichlorophenol	88062	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)
Separatory Funnel, EPA Method 3510

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: 11/22/2002
Date Analyzed: 11/23/2002
Date Reported: 11/27/2002
Client ID No.: EFFLUENT

Lab Contact: James Liang
Lab ID No.: U3163-1H
Job No.: 853163
COC Log No.: 29413,4,5,7
Batch No.: E04201
Instrument ID: LC002
Analyst ID: DAVIDC
Matrix: WW

SURROGATE


Analyte	CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
Terphenyl	92068	1.00	1.00	100	70	130

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83329	ND	0.50	1.0
Acenaphthylene	208968	ND	0.20	1.0
Anthracene	120127	ND	0.20	1.0
Benzo (a) anthracene	56553	ND	0.20	1.0
Benzo (a) pyrene	50328	ND	0.10	1.0
Benzo (b) fluoranthene	205992	ND	0.20	1.0
Benzo (g, h, i) perylene	191242	ND	0.20	1.0
Benzo (k) fluoranthene	207089	ND	0.20	1.0
Chrysene	218019	ND	0.20	1.0
Dibenzo (a, h) anthracene	53703	ND	0.10	1.0
Fluoranthene	206440	ND	0.20	1.0
Fluorene	86737	ND	0.20	1.0
Indeno (1, 2, 3-c, d) pyrene	193395	ND	0.050	1.0
Naphthalene	91203	ND	0.20	1.0
Phenanthrene	85018	ND	0.20	1.0
Pyrene	129000	ND	0.20	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry 

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID 154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP-ERWQA

Lab Contact: James Liang
Lab ID No.: U3163
Job No.: 853163
COC Log No.: 29413, 4, 5, 7
Batch No.: 33929
Instrument ID: LC002
Analyst ID: DAVIDC
Matrix: WW

Date Sampled: 11/19/2002
Date Received: 11/19/2002
Date Extracted: N/A
Date Analyzed: 11/21/2002
Date Reported: 11/27/2002

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1K / EFFLUENT				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

LOG NO. 29417

REPORT TO:						CLIENT JOB NUMBER		ANALYSIS REQUESTED							FIELD CONDITIONS:																				
NAME AND ADDRESS Robertson-Bryant, Inc. 9766 Waterman Rd. Santa Rosa Elk Grove, CA 95624 PROJECT MANAGER David Thomas (916) 714-1805 PROJECT NAME DCWWTP ERWQA SAMPLED BY D Thomas JOB DESCRIPTION Effluent & Creek sampling						FID 154		Total Recoverable (Ag, Bi, Cu, Fe) Trace Metals (Mn only) Disolved (Bi, Fe, Cu, Fe) Trace Metals (Mn only) SM4500-SO ₃ sulfate 374.2 sulfate 719g Chromium VI 529.1 Digest Gen. Min.							COMPOSITE:																				
SITE LOCATION Deer Creek WWTP								PRESERVATIVES							TURN AROUND TIME				SPECIAL INSTRUCTIONS																
DATE						TIME		IDENTIFICATION		MATRIX		CONTAINER NO.		TYPE		1 Day				2 Day				5 Day				10 Day				INVOICES/SIP Reporting Grid			
11/18/02						11:35		Blank		RW		1		50mlP		X				X				X				J-Flags							
11/19/02						1:40		Effluent		WW		1		50mlP		X				X				X				X							
11/19/02						1:15		Deer Creek		FW		1		50mlP		X				X				X				X							
11/19/02						1:40		Effluent		WW		1		50mlP		X				X				X				X							
11/19/02						1:15		Deer Creek		FW		1		50mlP		X				X				X				X							
11/19/02						1:30		Effluent		WW		1		50mlP		X				X				X				X							
11/19/02						1:40		Effluent		WW		1		50mlP		X				X				X				X							
11/19/02						1:30		Effluent		WW		1		50mlP		X				X				X				X							
11/19/02						1:40		Effluent		WW		1		1-LP		X				X				X				X							
11/19/02						1:40		Effluent		WW		1		1-LP		X				X				X				X							
11/19/02						1:15		Deer Creek		FW		1		1-LP		X				X				X				X							
SUSPECTED CONSTITUENTS																SAMPLE RETENTION TIME				PRESERVATIVES: (1) HCL (2) HNO ₃				(3) = COLD (4) Zn AC											
RELINQUISHED BY (SIGN)								PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY																					
David Thomas								David Thomas/RBI		11/19/02/3:45																									
REC'D AT LAB BY:								DATE / TIME:		11-19-02		1545		CONDITIONS / COMMENTS:																					
SHIPPED BY:								UPS		OTHER		AIR BILL #																							

CLS - abs

CHAIN OF CUSTODY

CLS ID No.: 43163

LOG NO. 29415

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED				FIELD CONDITIONS:					
NAME AND ADDRESS				EID 154											
7706 Waterman Rd, Suite L2				DESTINATION LABORATORY											
EIK Grove, CA 95624				CLS (916) 638-7301											
PROJECT MANAGER				3249 FITZGERALD RD.											
PROJECT NAME				RANCHO CORDOVA, CA.											
DCWTP ERWAT				95742											
SAMPLED BY				OTHER											
JOB DESCRIPTION															
Effluent Sampling															
SITE LOCATION				Deer Creek WWTP											
DATE		TIME		SAMPLE IDENTIFICATION		MATRIX		CONTAINER NO.		TYPE					
11/19/02	1:25	Effluent		WW	1	1-LA									
11/19/02	1:25	Effluent		WW	1	1-LA									
11/19/02	1:25	Effluent		WW	2	1-LA									
11/19/02	1:25	Effluent		WW	1	1-LA									
11/19/02	1:25	Effluent		WW	1	1-LA									
11/19/02	1:25	Effluent		WW	2	1-LA									
11/19/02	1:25	Effluent		WW	1	1-LA									
SUSPECTED CONSTITUENTS															
RELINQUISHED BY (SIGN)															
David Thomas															
PRINT NAME / COMPANY				DATE / TIME				RECEIVED BY (SIGN)				PRINT NAME / COMPANY			
David Thomas				11/19/02/3:45											
REC'D AT LAB BY:															
11-19-02 1575															
DATE / TIME:															
SHIPPED BY:															
DATE / TIME:															
UPS															
FED X															
OTHER															
AIR BILL #															

PRESERVATIVES				ANALYSIS REQUESTED				TURN AROUND TIME				SPECIAL INSTRUCTIONS			
X 506 Di-ethylhexyl Phosphate				547 Glyphosate				1 DAY				NAMES Reporting Limit			
X 548.1 Endo Hall				610 PAHs				2 DAY				5-Flags			
X 632 Carbamates								5 DAY							
X 80814 α Pesticides								10 DAY							
X 8078/1414 OP Pesticides															

COMPOSITE:

INVOICE TO:

PO. #

QUOTE #

(3) = COLD
(4)

CLS. abs

CHAIN OF CUSTODY

CLS ID No: 43163

LOG NO. 29414

REPORT TO:					
NAME AND ADDRESS					
9706 Waterman Rd., Suite L2 Elk Grove, CA 95624					
PROJECT MANAGER					
David Thomas (916) 714-8035					
PROJECT NAME					
DCHWTP ERWAT					
SAMPLED BY					
D. Thomas					
JOB DESCRIPTION					
Effluent & creek sampling					
SITE LOCATION					
Dear Creek WWT					
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE
11/19/02	1:40	Effluent	WW	1	50mLP
11/19/02	1:15	Deer Creek	FW	1	50mLP
11/19/02	1:30	Effluent	WW	2	VOA
11/19/02	1:30	Effluent	WW	3	VOA
11/19/02	1:30	Effluent	WW	2	VOA
11/19/02	1:30	Effluent	WW	2	VOA
SUSPECTED CONSTITUENTS					
RELINQUISHED BY (SIGN)					
David Thomas					
PRINT NAME / COMPANY					
David Thomas / RBL					
DATE / TIME					
11/19/02 / 3:45					
RECEIVED BY (SIGN)					
PRINT NAME / COMPANY					
PRESERVATIVES					
350.2 Ammonia					
316.5.2 Total P					
50.2 Acetone & Methylene Chloride					
80.008 White Organics					
50.4 EPR & DBCP					
ANALYSIS REQUESTED					
FIELD CONDITIONS:					
COMPOSITE:					
TURN AROUND TIME					
SPECIAL INSTRUCTIONS					
NPPES Reporting Limits					
J-Flags					
INVOICE TO:					
P.O. #					
QUOTE #					
(3) = COLD					
(4) = H ₂ O ₂					
SHIPPED BY:					
FED X					
OTHER					
AIR BILL #					
RECD AT LAB BY:					
DATE / TIME:					
11-19-02 1545					
CONDITIONS / COMMENTS:					

LOG NO. 29413

FIELD CONDITIONS:

Chlorophenyl Herbicide
Semi-volatile Organics

	CONTAINER	NO.	TYPE
		2	1-LA
		2	1-LA

[illegible]

NAME / COMPANY	ionals / R B I	DATE / TIME:	2-19-11	OTD	<input type="checkbox"/>
----------------	----------------	--------------	---------	-----	--------------------------

[illegible]

ERVATIVES:	(1) HCL (2) HNO ₃		(3) = COLD (4)	
Y Y (SIGN)			PRINT NAME / COMPANY	

LOG NO. 28687

LOG NO. 28687

[illegible]

DECEMBER 2002



JAN 14 2003

BY: *HL*

Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

01/09/2003

Attention: David Thomas

Reference: Analytical Results

Project Name: DCWWTP ERWQA
Project No.: EID-154
Date Received: 12/17/2002
Chain Of Custody: 35267,8

CLS ID No.: U3990
CLS Job No.: 853990

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
1	10 Days	Tributyltin by GC/FPD
2	10 Days	General Mineral
3	10 Days	5 Metals by EPA 200 series8
2	10 Days	5 Metals dissolved by EPA 200 series
1	10 Days	Sulfide, EPA Method 376.2
1	10 Days	Sulfite, EPA Method 377.1
2	10 Days	Ammonia as Nitrogen, EPA Method 350.2
1	10 Days	VOC's by EPA methods 8260/502.2
2	10 Days	Total Phosphorus, Standard Method 4500-P
1	10 Days	Chrome VI Analysis by IC, EPA Method 7199
1	10 Days	Acrolein & Acrylonitrile, EPA 8316
1	10 Days	Asbestos Analysis

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

— **EnviroMatrix**



Analytical, Inc. —

30 December 2002

CLS Labs

EMA Log #: 0212229

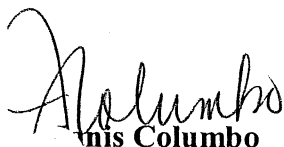
Attn: James Liang

3249 Fitzgerald Road

Rancho Cordova, CA 95742

Project Name: DCWWTP ERWQA

Enclosed are the results of analyses for samples received by the laboratory on 12/20/02 13:21. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.


James Columbo

Vice President / Laboratory Director

CA ELAP Certification #: 1931

Client Name: CLS Labs
Project Name: DCWWTP ERWQA

EMA Log #: 0212229

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	0212229-01	Water	12/17/02 00:00	12/20/02 13:21

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP ERWQA

EMA Log #: 0212229

Organotin Compounds by GC - FPD

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (0212229-01) Water Sampled: 12/17/02 00:00 Received: 12/20/02 13:21									
Tributyltin	ND	0.005	ug/l	1	2122019	12/20/02	12/27/02	GC - FPD	
Dibutyltin	ND	0.02	"	"	"	"	"	"	
Monobutyltin	ND	0.02	"	"	"	"	"	"	
<i>Surrogate: Triphenyltin</i>		83 %	39-139		"	"	"	"	
<i>Surrogate: Tri-n-propyltin</i>		70 %	39-139		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
 Project Name: DCWWTP ERWQA

EMA Log #: 0212229

Organotin Compounds by GC - FPD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2122019										
Blank (2122019-BLK1)				Prepared: 12/20/02 Analyzed: 12/27/02						
Tributyltin	ND	0.005	ug/l							
Dibutyltin	ND	0.02	"							
Monobutyltin	ND	0.02	"							
Surrogate: Triphenyltin	0.175		"	0.250		70	39-139			
Surrogate: Tri-n-propyltin	0.181		"	0.250		72	39-139			
LCS (2122019-BS1)				Prepared: 12/20/02 Analyzed: 12/27/02						
Tributyltin	0.21	0.005	ug/l	0.251		85	61-143			
Dibutyltin	0.11	0.02	"	0.249		43	0-163			
Monobutyltin	ND	0.02	"	0.250		3	0-16			
Surrogate: Triphenyltin	0.200		"	0.250		80	39-139			
Surrogate: Tri-n-propyltin	0.193		"	0.250		77	39-139			
I CS Dup (2122019-BSD1)				Prepared: 12/20/02 Analyzed: 12/27/02						
yltin	0.20	0.005	ug/l	0.251		78	61-143	9	30	
Dibutyltin	0.10	0.02	"	0.249		41	0-163	4	30	
Monobutyltin	ND	0.02	"	0.250		5	0-16	42	30	QL-04
Surrogate: Triphenyltin	0.178		"	0.250		71	39-139			
Surrogate: Tri-n-propyltin	0.163		"	0.250		65	39-139			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP ERWQA

EMA Log #: 0212229

Notes and Definitions

QL-04 Due to typical low recoveries for this analyte, the RPD will often fall outside the acceptance limits.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LOG NO. 55404

FIELD CONDITIONS:

110 DIV

CONDITIONS / COMMENTS

(4) PRINT NAME / COMPANY

12-20-07	13.7
----------	------

715

10

Cooler Receipt Form

Client: CLS Labs

Project Name: DCWWTP ERWQA / Not Given

EMA Log Number(s): 0212029 Log in Date: 12/20/00 Time: 13:21

Received Via: UPS Fed Ex Other: 650

Samples Received in: 1 Cooler(s) Box(es) Other: _____

Logged in By: Mike Faulkner Signature: Michael J. Faulkner

All No answers are explained at the bottom of this page.

1. Were samples sufficiently chilled?

Yes No N/A

Provide temperature if applicable.

12 °C

2. Were Chain-of-Custody forms filled out properly?

Yes No

3. Did all bottles arrive unbroken with labels in good condition?

Yes No

4. Were correct containers used for the analysis requested?

Yes No

5. Were samples correctly preserved?

Yes No N/A

6. Was sufficient sample sent for analysis requested?

Yes No

7. Were air bubbles absent from VOA samples?

Yes No N/A

List all VOA's that have air bubbles.

Comments:

CALIFORNIA LABORATORY SERVICES

Analysis Report: General Mineral Analysis

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/17/2002
Date Reported: 01/06/2003

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: W021217Y
Instrument ID: INMIX
Analyst ID: SCOTT
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1J / Effluent				
Hardness as CaCO ₃	N/A	99	1.0	1.0
Fluoride	N/A	ND	0.10	1.0
Chloride	N/A	48	1.0	2.0
Nitrite (as N)	N/A	ND	0.40	1.0
Nitrate (as N)	N/A	12	1.0	2.0
Sulfate	N/A	71	1.0	2.0
Methylene Blue Active Substances	N/A	0.15, J	0.50	1.0
pH	N/A	7.1	Note 1	1.0
Specific Conductance	N/A	570	Note 2	1.0
Total Dissolved Solids	N/A	390	1.0	1.0
2D / Deer Creek				
Hardness as CaCO ₃	N/A	150	1.0	1.0
Fluoride	N/A	0.34	0.10	1.0
Chloride	N/A	12	0.50	1.0
Nitrite (as N)	N/A	0.13, J	0.40	1.0
Nitrate (as N)	N/A	0.83	0.50	1.0
Sulfate	N/A	12	0.50	1.0
Methylene Blue Active Substances	N/A	0.047, J	0.50	1.0
pH	N/A	8.0	Note 1	1.0
Specific Conductance	N/A	280	Note 2	1.0
Total Dissolved Solids	N/A	190	1.0	1.0

Note 1: Units for pH are standard pH units.

Note 2: Units for specific conductance are umho/cm @ 25 degrees Celsius.

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Metals, EPA Methods 200

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: 12/23/2002
Date Analyzed: 12/24/2002
Date Reported: 01/07/2003
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U3990-1H
Job No.: 853990
COC Log No.: 35267,8
Batch No.: M021223A
Instrument ID: INMIX
Analyst ID: ANTHONYG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	4.2, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	13	0.50	200.8	1.0
Fe (Iron)	7439896	12, J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Metals, EPA Methods 200

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: 12/23/2002
Date Analyzed: 12/24/2002
Date Reported: 01/07/2003
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: U3990-2B
Job No.: 853990
COC Log No.: 35267,8
Batch No.: M021223A
Instrument ID: INMIX
Analyst ID: ANTHONYG
Matrix: WATER

DEER CREEK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	17,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	3.5	0.50	200.8	1.0
Fe (Iron)	7439896	360	100	200.7	1.0
Mn (Manganese)	7439965	12,J	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Metals, EPA Methods 200

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/16/2002
Date Received: 12/17/2002
Date Extracted: 12/23/2002
Date Analyzed: 12/24/2002
Date Reported: 01/07/2003
Client ID No.: Blank

Lab Contact: James Liang
Lab ID No.: U3990-3A
Job No.: 853990
COC Log No.: 35267,8
Batch No.: M021223A
Instrument ID: INMIX
Analyst ID: ANTHONYG
Matrix: WATER

BLANK


Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	ND	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	ND	0.50	200.8	1.0
Fe (Iron)	7439896	ND	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Dissolved Metals, EPA Methods 200

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: 12/23/2002
Date Analyzed: 12/24/2002
Date Reported: 01/07/2003
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U3990-1I
Job No.: 853990
COC Log No.: 35267,8
Batch No.: M021223A
Instrument ID: INMIX
Analyst ID: ANTHONYG
Matrix: WW

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	5.3,J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	11	0.50	200.8	1.0
Fe (Iron)	7439896	3,J	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Dissolved Metals, EPA Methods 200

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: 12/23/2002
Date Analyzed: 12/24/2002
Date Reported: 01/07/2003
Client ID No.: Deer Creek

Lab Contact: James Liang
Lab ID No.: U3990-2C
Job No.: 853990
COC Log No.: 35267,8
Batch No.: M021223A
Instrument ID: INMIX
Analyst ID: ANTHONYG
Matrix: WATER

DEER CREEK


Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ba (Barium)	7440393	15, J	100	200.7	1.0
Be (Beryllium)	7440417	ND	1.0	200.7	1.0
Cu (Copper)	7440508	3.1	0.50	200.8	1.0
Fe (Iron)	7439896	170	100	200.7	1.0
Mn (Manganese)	7439965	ND	20	200.7	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Sulfide, EPA Method 376.2

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/23/2002
Date Reported: 01/06/2003

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: W021217Y
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1F / Effluent Sulfide	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Sulfite, EPA Method 377.1

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/18/2002
Date Reported: 01/06/2003

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: W021217Y
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1E / Effluent Sulfite	N/A	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Ammonia as Nitrogen, EPA Method 350.2

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: 12/27/2002
Date Analyzed: 12/27/2002
Date Reported: 01/06/2003

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: W021217Y
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / Effluent				
Ammonia as Nitrogen	N/A	0.18	0.10	1.0
2A / Deer Creek				
Ammonia as Nitrogen	N/A	0.18	0.10	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds, EPA Method 502.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/30/2002
Date Reported: 01/08/2003

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: 34123
Instrument ID: GC017
Analyst ID: KIRKP
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1C / Effluent 1-chloro-2-fluorobenzene 348-51-6	20.1	20.0	100	70	130

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent 2-Chloroethyl vinyl ether	110758	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/27/2002
Date Reported: 01/10/2003
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U3990-1D
Job No.: 853990
COC Log No.: 35267,8
Batch No.: 34108
Instrument ID: MS05
Analyst ID: ROOSEVELTG
Matrix: WW

SURROGATE

Analyte CAS No.	Results (ug/L)	Surr Conc. (ug/L)	Surrogate Recovery (percent)	Lower Spec (Limit)	Upper Spec (Limit)
1,2-Dichloroethane-d4 N/A	13.0	10.0	130	66	135
Toluene-d8 N/A	9.58	10.0	96	72	125
p-Bromofluorobenzene 460004	11.6	10.0	116	73	125

EFFLUENT

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71556	ND	2.0	1.0
1,1,2,2-Tetrachloroethane	79345	ND	0.50	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	ND	10	1.0
1,1,2-Trichloroethane	79005	ND	0.50	1.0
1,1-Dichloroethane	75343	ND	1.0	1.0
1,1-Dichloroethene	75354	ND	0.50	1.0
1,2,4-Trichlorobenzene	120821	ND	5.0	1.0
1,2-Dichlorobenzene	95501	ND	2.0	1.0
1,2-Dichloroethane	107062	ND	0.50	1.0
1,2-Dichloropropane	78875	ND	0.50	1.0
1,3-Dichloropropene	542756	ND	0.50	1.0
1,3-Dichlorobenzene	541731	ND	2.0	1.0
1,4-Dichlorobenzene	106467	ND	2.0	1.0
Benzene	71432	0.34, J	0.50	1.0
Bromodichloromethane	75274	5.1	0.50	1.0
Bromoform	75252	ND	2.0	1.0
Bromomethane	74839	ND	2.0	1.0
Carbon tetrachloride	56235	ND	0.50	1.0
Chlorobenzene	108907	ND	2.0	1.0
Chloroethane	75003	ND	2.0	1.0
Chloroform	67663	44	0.50	1.0
Chloromethane	74873	ND	0.50	1.0
Dibromochloromethane	124481	ND	0.50	1.0
Ethylbenzene	100414	ND	2.0	1.0
Hexachlorobutadiene	87683	ND	1.0	1.0
Methyl t-butyl ether	1634044	1.79, J	3.0	1.0
Methylene chloride	75092	ND	2.0	1.0
Naphthalene	91203	ND	10	1.0
Styrene	100425	ND	0.50	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Volatile Organic Compounds + MTBE by GC/MS, EPA Method 8260B

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/27/2002
Date Reported: 01/10/2003
Client ID No.: Effluent

Lab Contact: James Liang
Lab ID No.: U3990-1D
Job No.: 853990
COC Log No.: 35267,8
Batch No.: 34108
Instrument ID: MS05
Analyst ID: ROOSEVELTG
Matrix: WW

EFFLUENT (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Tetrachloroethene	127184	ND	0.50	1.0
Toluene	108883	ND	2.0	1.0
Trichloroethene	79016	ND	2.0	1.0
Trichlorofluoromethane	75694	ND	5.0	1.0
Vinyl chloride	75014	ND	0.50	1.0
Xylenes, total	1330207	ND	0.50	1.0
cis-1,2-Dichloroethene	156592	ND	0.50	1.0
trans-1,2-Dichloroethene	156605	ND	1.0	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Environmental
Chemistry



Analysis Report: Total Phosphorus, EPA Method 365.2
Sulfuric Acid-Ammonium Persulfate Digestion, EPA Method 365.2

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: W021217Y
Instrument ID: UV002
Analyst ID: SCOTTF
Matrix: WW

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: 12/30/2002
Date Analyzed: 12/30/2002
Date Reported: 01/06/2003

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
1A / Effluent Total Phosphorus	N/A	1.9	0.50	10
2A / Deer Creek Total Phosphorus	N/A	0.035, J	0.050	1.0

J = Estimated value.

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7199

Environmental
Chemistry 

Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/18/2002
Date Reported: 12/26/2002

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: IC1021218
Instrument ID: IC001
Analyst ID: PONGC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1G / Effluent Hexavalent Chromium	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CALIFORNIA LABORATORY SERVICES

Analysis Report: Acrolein & Acrylonitrile by HPLC (UV), EPA 8316

Environmental
Chemistry



Client: Robertson-Bryan, Inc.
9766 Waterman Rd.
Ste. L2
Elk Grove, CA 95624

Project No.: EID-154
Contact: David Thomas
Phone: (916) 714-1805

Project: DCWWTP ERWQA

Date Sampled: 12/17/2002
Date Received: 12/17/2002
Date Extracted: N/A
Date Analyzed: 12/30/2002
Date Reported: 01/08/2003

Lab Contact: James Liang
Lab ID No.: U3990
Job No.: 853990
COC Log No.: 35267,8
Batch No.: 34120
Instrument ID: LC002
Analyst ID: DAVIDC
Matrix: WW

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1C / Effluent				
Acrolein	107028	ND	5.0	1.0
Acrylonitrile	107131	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

Westmont, NJ
(856) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Friday, December 20, 2002

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: U3990
Attention: James Liang
Ref Number: CA025216
Date Sampled: 12-17-02
Date Filtered: 12-18-02
Date Analyzed: 12-20-02


Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
"Determination of Asbestos Structures Over 10µm In Length
in Drinking Water"; by Brackett, Clark & Millette

SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Effluent	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.



Analyst



Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620

LOG NO. 5402

[illegible]

CLS - ' bs

CHAIN OF CUSTODY

CLS ID No.: U3990

LOG NO. 5268

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:															
NAME AND ADDRESS				DESTINATION LABORATORY																			
Robertson-Bryant, Inc.				ED-154																			
9746 Waterman Rd. Suite L2																							
Elk Grove, CA 95624																							
PROJECT MANAGER				CLAS (916) 638-7301																			
David Thomas (916) 714-1805				3249 FITZGERALD RD.																			
PROJECT NAME				RANCHO CORDOVA, CA.																			
Deer Creek WTP				95742																			
SAMPLED BY				OTHER																			
David Thomas																							
JOB DESCRIPTION																							
Effluent & creek sampling																							
SITE LOCATION				Deer Creek WTP																			
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE	PRESERVATIVES				TURN AROUND TIME				SPECIAL INSTRUCTIONS									
12/17/02	1:10	Effluent	WW	1	500mL	4	350.2 Ammonia	600/P-93/116 Asbestos	EV-024/025 Tributyltin	500.2 D-chloroethyl vinyl ether	8316 Acrolein & Acrylonitrile	8360B Volatile organics	1 DAY	2 DAY	5 DAY	10 DAY	NPDES/SIP Reporting Limits						
12/17/02	12:45	Deer Creek	FW	1	500mL	4												J-Flags					
12/17/02	1:10	Effluent	WW	2	1-2A																		
12/17/02	1:10	Effluent	WW	2	1-2A																		
12/17/02	1:20	Effluent	WW	2	VOA																		
12/17/02	1:20	Effluent	WW	3	VOA																		
12/17/02	1:20	Effluent	WW	2	VOA	1																	
SUSPECTED CONSTITUENTS						SAMPLE RETENTION TIME						PRESERVATIVES: (1) HCL (2) HNO ₃				(3) = GOLD (4) #2504							
RELINQUISHED BY (SIGN)						PRINT NAME / COMPANY						DATE / TIME				RECEIVED BY (SIGN)				PRINT NAME / COMPANY			
David Thomas						David Thomas / RB1						12/17/02 2:30											
RECD AT LAB BY:						DATE / TIME:						12-17-02 1430				CONDITIONS / COMMENTS:							
SHIPPED BY:						DATE / TIME:						12-17-02 1430				AIR BILL #							

CLS - 1 - bs

CHAIN OF CUSTODY

CLS ID No.: 03996

LOG NO. 5267

REPORT TO:			CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:	
NAME AND ADDRESS			DESTINATION LABORATORY		PRESERVATIVES		COMPOSITE:	
Robertson-Bryan, Inc.			EID-154					
9766 Waterman Rd. Suite L2								
Elk Grove, CA 95624								
PROJECT MANAGER			CLC (916) 638-7301					
PROJECT NAME			3249 FITZGERALD RD.					
David Thomas (916) 714-1805			RANCHO CORDOVA, CA.					
SAMPLED BY			OTHER					
David Thomas								
JOB DESCRIPTION								
Effluent & Creek Sampling								
SITE LOCATION								
Deer Creek WWTP								
DATE	TIME	IDENTIFICATION	MATRIX	NO.	TYPE	ANALYSIS REQUESTED	TURN AROUND TIME	SPECIAL INSTRUCTIONS
12/17/02	1:20	Effluent	WW	1	250mlP	376.2 Sulfide	1 DAY	NPDES/SIP Reporting Limits
12/17/02	1:10	Effluent	WW	1	250mlP	7199 Chromium VI	2 DAY	5-Flags
12/17/02	1:20	Effluent	WW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)	5 DAY	
12/16/02	1:10	Blank	RW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)	10 DAY	
12/17/02	1:10	Effluent	WW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)		
12/17/02	12:45	Deer Creek	FW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)		
12/17/02	1:10	Effluent	WW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)		
12/17/02	12:45	Deer Creek	FW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)		
12/17/02	1:10	Effluent	WW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)		
12/17/02	12:45	Deer Creek	FW	1	500mlP	300.8 Trace Metals (As, Ba, Cu, Fe, Pb, Mn, Ni, Se, V, Zn)		
SUSPECTED CONSTITUENTS						SAMPLE RETENTION TIME	PRESERVATIVES:	(3) = COLD (4) = Zn Ac
RELINQUISHED BY (SIGN)						DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
David Thomas						12/17/02 2:30	David Thomas / RB1	
RECD AT LAB BY:						DATE / TIME:	CONDITIONS / COMMENTS:	
SHIPPED BY:						DATE / TIME:	AIR BILL #	

JANUARY 2003

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

January 27, 2003

CLS Work Order #: CMA0058


David Thomas
Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove, CA 95624

Project Name: DCWWTP ERWQA

Enclosed are the results of analyses for samples received by the laboratory on 01/07/03 13:50. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Acrolein & Acrylonitrile by HPLC, EPA Method 8316

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
Acrolein	ND	5.0	µg/L	1	CA31517	01/21/03	01/21/03	EPA 8316	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Anions by EPA Method 300.0

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50

Chloride	65	2.5	mg/L	5	CA31425	01/08/03	01/08/03	EPA 300.0	
Fluoride	0.41	0.10	"	1	"	"	"	"	
Nitrate as N	17	0.50	"	5	"	"	"	"	
Nitrite as N	ND	0.10	"	1	"	"	"	"	
Sulfate as SO4	73	2.5	"	5	"	"	"	"	

Deer Creek (CMA0058-02) Water Sampled: 01/07/03 12:40 Received: 01/07/03 13:50

Chloride	13	0.50	mg/L	1	CA31425	01/08/03	01/08/03	EPA 300.0	
Fluoride	0.46	0.10	"	"	"	"	"	"	
Nitrate as N	0.17	0.10	"	"	"	"	"	"	
Nitrite as N	0.13	0.10	"	"	"	"	"	"	
Sulfate as SO4	17	0.50	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
Total Alkalinity	120	5.0	mg/L	1	CA31414	01/09/03	01/09/03	EPA 310.1	
Bicarbonate as CaCO ₃	120	5.0	"	"	"	"	"	"	
Carbonate as CaCO ₃	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO ₃	ND	5.0	"	"	"	"	"	"	
Ammonia as N	0.23	0.10	"	"	CA31357	01/13/03	01/13/03	EPA 350.2	
Specific Conductance (EC)	750	1.0	µmhos/cm	"	CA30718	01/08/03	01/08/03	EPA 120.1	
Methylene Blue Active Substances	0.15	0.10	mg/L	"	CA31521	01/08/03	01/08/03	EPA 425.1	
Hardness as CaCO ₃	87	1.0	"	"	CA31317	01/10/03	01/10/03	EPA	
								200.7/2340B	
Hexavalent Chromium	ND	1.0	µg/L	"	CA31358	01/08/03	01/08/03	EPA 7199	
Total Phosphorus as P	2600	500	"	10	CA31701	01/16/03	01/16/03	EPA 365.2	
Sulfide	4800	1000	"	1	CA31720	01/14/03	01/14/03	EPA 376.2	
Sulfite	12000	5000	"	"	CA31633	01/08/03	01/08/03	EPA 377.1	
	7.20		pH Units	"	CA30807	01/08/03	01/08/03	EPA 150.1	
Total Dissolved Solids	480	10	mg/L	"	CA30714	01/08/03	01/08/03	EPA 160.1	
Deer Creek (CMA0058-02) Water Sampled: 01/07/03 12:40 Received: 01/07/03 13:50									
Total Alkalinity	200	5.0	mg/L	1	CA31414	01/09/03	01/09/03	EPA 310.1	
Bicarbonate as CaCO ₃	190	5.0	"	"	"	"	"	"	
Carbonate as CaCO ₃	5.2	5.0	"	"	"	"	"	"	
Hydroxide as CaCO ₃	ND	5.0	"	"	"	"	"	"	
Ammonia as N	0.26	0.10	"	"	CA31357	01/13/03	01/13/03	EPA 350.2	
Specific Conductance (EC)	410	1.0	µmhos/cm	"	CA30718	01/08/03	01/08/03	EPA 120.1	
Methylene Blue Active Substances	ND	0.10	mg/L	"	CA31521	01/08/03	01/08/03	EPA 425.1	
Hardness as CaCO ₃	230	1.0	"	"	CA31317	01/10/03	01/10/03	EPA	
								200.7/2340B	
Total Phosphorus as P	ND	50	µg/L	"	CA31701	01/16/03	01/16/03	EPA 365.2	
pH	8.27		pH Units	"	CA30807	01/08/03	01/08/03	EPA 150.1	
Total Dissolved Solids	280	10	mg/L	"	CA30714	01/08/03	01/08/03	EPA 160.1	

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
Barium	5.3	100	µg/L	1	CA30825	01/08/03	01/08/03	EPA 200.7	J
Beryllium	ND	1.0	"	"	"	"	"	"	
Iron	23	100	"	"	"	"	"	"	J
Manganese	ND	20	"	"	"	"	"	"	
Copper	9.9	0.50	"	"	CA30910	01/08/03	01/13/03	EPA 200.8	
Deer Creek (CMA0058-02) Water Sampled: 01/07/03 12:40 Received: 01/07/03 13:50									
Barium	22	100	µg/L	1	CA30825	01/08/03	01/08/03	EPA 200.7	J
Beryllium	ND	1.0	"	"	"	"	"	"	
Iron	120	100	"	"	"	"	"	"	
Manganese	7.6	20	"	"	"	"	"	"	J
Copper	1.4	0.50	"	"	CA30910	01/08/03	01/13/03	EPA 200.8	
Blank (CMA0058-03) Water Sampled: 01/06/03 12:15 Received: 01/07/03 13:50									
Barium	ND	100	µg/L	1	CA30825	01/08/03	01/08/03	EPA 200.7	
Beryllium	ND	1.0	"	"	"	"	"	"	
Iron	ND	100	"	"	"	"	"	"	
Manganese	ND	20	"	"	"	"	"	"	
Copper	0.32	0.50	"	"	CA30910	01/08/03	01/13/03	EPA 200.8	

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Metals (Dissolved) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
Barium	5.8	100	µg/L	1	CA31021	01/10/03	01/13/03	EPA 200.7	J
Beryllium	ND	1.0	"	"	"	"	"	"	
Iron	30	100	"	"	"	"	"	"	J
Manganese	ND	20	"	"	"	"	"	"	
Copper	10	0.50	"	"	CA30930	01/09/03	01/13/03	EPA 200.8	
Deer Creek (CMA0058-02) Water Sampled: 01/07/03 12:40 Received: 01/07/03 13:50									
Barium	19	100	µg/L	1	CA31021	01/10/03	01/13/03	EPA 200.7	J
Beryllium	ND	1.0	"	"	"	"	"	"	
Iron	47	100	"	"	"	"	"	"	J
Manganese	6.3	20	"	"	"	"	"	"	J
Copper	1.8	0.50	"	"	CA30930	01/09/03	01/13/03	EPA 200.8	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Volatile Organic Compounds by EPA Method 502.2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
2-Chloroethylvinyl ether	ND	1.0	µg/L	1	CA31435	01/08/03	01/08/03	EPA 502.2	
Surrogate: 1-Chloro-2-fluorobenzene		112 %	70-130		"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
Benzene	ND	0.50	µg/L	1	CA31031	01/10/03	01/10/03	EPA 8260B	
Bromodichloromethane	4.8	0.50	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	51	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropene (total)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Freon 113	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.0	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	

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3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

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CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd., Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (CMA0058-01) Water Sampled: 01/07/03 12:55 Received: 01/07/03 13:50									
Vinyl chloride	ND	0.50	µg/L	1	CA31031	01/10/03	01/10/03	EPA 8260B	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	66-135		"	"	"	"	
Surrogate: Toluene-d8		101 %	72-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	73-125		"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove CA, 95624

Project: DCWWTP ERWQA
Project Number: EID-154
Project Manager: David Thomas

CLS Work Order #: CMA0058

01/27/03 15:27

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



17 January 2003

CLS Labs

EMA Log #: 0301045

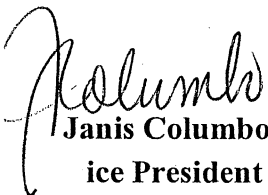
Attn: James Liang

3249 Fitzgerald Road

Rancho Cordova, CA 95742

Project Name: DCWWTP ERWQA

Enclosed are the results of analyses for samples received by the laboratory on 01/09/03 09:50. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.



Janis Columbo

ice President / Laboratory Director

CA ELAP Certification #: 1931

Client Name: CLS Labs
Project Name: DCWWTP ERWQA

EMA Log #: 0301045

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	0301045-01	Water	01/07/03 12:55	01/09/03 09:50

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP ERWQA

EMA Log #: 0301045

Organotin Compounds by GC - FPD

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (0301045-01) Water Sampled: 01/07/03 12:55 Received: 01/09/03 09:50									
Tributyltin	ND	0.005	ug/l	1	3011313	01/13/03	01/16/03	GC - FPD	
Dibutyltin	ND	0.02	"	"	"	"	"	"	
Monobutyltin	ND	0.02	"	"	"	"	"	"	
Surrogate: Tripentyltin		121 %	39-139		"	"	"	"	
Surrogate: Tri-n-propyltin		115 %	39-139		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
 Project Name: DCWWTP ERWQA

EMA Log #: 0301045

Organotin Compounds by GC - FPD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3011313

Blank (3011313-BLK1)

Prepared: 01/13/03 Analyzed: 01/16/03

Tributyltin	ND	0.005	ug/l							
Dibutyltin	ND	0.02	"							
Monobutyltin	ND	0.02	"							
Surrogate: Triphenyltin	0.226		"	0.250		90	39-139			
Surrogate: Tri-n-propyltin	0.215		"	0.250		86	39-139			

LCS (3011313-BS1)

Prepared: 01/13/03 Analyzed: 01/16/03

Tributyltin	0.23	0.005	ug/l	0.250		91	45-134			
Dibutyltin	0.12	0.02	"	0.249		49	5-88			
Monobutyltin	0.019	0.0000	"	0.250		7	0-16			
Surrogate: Triphenyltin	0.251		"	0.250		100	39-139			
Surrogate: Tri-n-propyltin	0.267		"	0.250		107	39-139			

LCS Dup (3011313-BSD1)

Prepared: 01/13/03 Analyzed: 01/16/03

Butyltin	0.21	0.005	ug/l	0.250		85	45-134	6	30	
Butyltin	0.11	0.02	"	0.249		45	5-88	8	30	
Monobutyltin	0.015	0.0000	"	0.250		6	0-16	18	30	
Surrogate: Triphenyltin	0.289		"	0.250		116	39-139			
Surrogate: Tri-n-propyltin	0.268		"	0.250		107	39-139			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP ERWQA

EMA Log #: 0301045

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CHAIN OF CUSTODY

CLS ID No.: _____

LOG NO. - 8267

CHAIN OF CUSTODY

CLSID No.:

LOG NO. - 8267

[illegible]

Westmont, NJ
(856) 858-1260

Piscataway, NJ
(908) 981-0550

Carle Place, NY
(516) 997-7251

Smyrna, GA
(404) 333-6066

Melbourne, FL
(407) 253-4224

Ann Arbor, MI
(313) 668-6810

Milpitas, CA
(408) 934-7010

EMSL

Thursday, January 16, 2003

California Laboratory Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742

Project: CMA0058
Attention: James Liang
Ref Number: CA0374
Date Sampled: 01-07-03
Date Filtered: 01-08-03
Date Analyzed: 01-13-03


Asbestos Analysis in Water by Transmission Electron Microscopy (TEM)
Performed by Method EPA/600/R-94/134 - (100.2)
"Determination of Asbestos Structures Over 10µm In Length
in Drinking Water"; by Brackett, Clark & Millette

SAMPLE ID	#ASBESTOS STRUCTURES >10µm	#NON-ASBESTOS FIBROUS STRUCTURES	TYPE(S) OF ASBESTOS	CONCENTRATION OF ASBESTOS Fibers (MILLIONS/LITER) >10µm	95% Confidence Limits (Lower-Upper) (MILLIONS/LITERS) >10 µm	DETECTION LIMIT (MFL)
Effluent	0	0	None Detected	<0.20	0-0.73	0.20
EMSL Blank	0	0	None Detected	<0.20	0-0.73	0.20

*Samples that contain high levels of particulate which require the laboratory to filter a dilution less than the minimum recommended method volume of 50 ml, will necessarily have higher detection limits. Refer to EPA/600/R-94/134 Method 100.2, Sections 11.10 and 13.6.

EPA Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

California Title 22 Limit = 7 million fibers per liter for fibers greater than 10 microns in length.

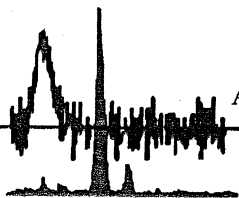


Analyst



Approved Signatory

ACCREDITATIONS: CA STATE ELAP #1620



CLS - abs

CHAIN OF CUSTODY

CLS ID No.:

LOG NO. 28608

REPORT TO:

NAME AND ADDRESS
Robertson-Bryan, Inc.
9766 Waterman Rd. Suite L2
Elk Grove, CA 95624
PROJECT MANAGER David Thomas (916) 714-1805
PROJECT NAME DCWWTP ERWAT
SAMPLED BY David Thomas
JOB DESCRIPTION Effluent & Creek Sampling

CLIENT JOB NUMBER

EID-154
DESTINATION LABORATORY
CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95742

☐ OTHER

ANALYSIS REQUESTED

350.2 Ammonia
365.2 Total P
600/R-93/110 Asbestos
EV-024/025 Tributyltin
502.2 2-chloroethyl vinyl ether
831.6 Acrolein & Acrylonitrile
836.0 B Volatile organics

PRESERVATIVES

DATE	TIME	SAMPLE IDENTIFICATION	CONTAINER	
			MATRIX	NO. TYPE
1/7/03	12:55	Effluent	WW	1 50 mL P
1/7/03	12:40	Deer Creek	FW	1 50 mL P
1/7/03	12:55	Effluent	WW	2 1-LA
1/7/03	12:55	Effluent	WW	2 1-LA
1/7/03	12:45	Effluent	WW	2 VOA
1/7/03	12:45	Effluent	WW	3 VOA
1/7/03	12:24	Effluent	WW	2 VOA 1

SUSPECTED CONSTITUENTS

RELINQUISHED BY (SIGN)

PRINT NAME / COMPANY

DATE / TIME

RECEIVED BY (SIGN)

PRINT NAME / COMPANY

SAMPLE RETENTION TIME

PRESERVATIVES:

(1) HCL
(2) HNO₃(3) = GOLD
(4) H₂SO₄

TURN AROUND TIME

Day 1 Day 2 Day 3 Day 4 Day 5 Day 6

SPECIAL INSTRUCTIONS

NPDES/SIP Reporting Limits

J-Flags

INVOICE TO:

P.O. #

QUOTE #

RECEIVED AT LAB BY

SHIPPED BY:

DATE / TIME

10103 1350

FED X

UPS

OTHER

AIR BILL #

CLS abs

CHAIN OF CUSTODY

CLS ID No.:

LOG NO. 28609

REPORT TO:				CLIENT JOB NUMBER		ANALYSIS REQUESTED		FIELD CONDITIONS:			
NAME AND ADDRESS				EID-154		PRESERVATIVES		COMPOSITE:			
7760 Waterman Rd. Suite L2				DESTINATION LABORATORY							
ELK Grove, CA 95624				CLS (916) 638-7301							
PROJECT MANAGER				3249 FITZGERALD RD.							
PROJECT NAME				RANCHO CORDOVA, CA.							
PROJECT NAME				95742							
SAMPLED BY				OTHER							
JOB DESCRIPTION											
SITE LOCATION											
Deer Creek WWTP											
DATE		TIME		SAMPLE IDENTIFICATION		CONTAINER		TURN AROUND TIME		SPECIAL INSTRUCTIONS	
						NO. TYPE					
1/7/03	12:45	Effluent		WW	1	250ml	1P				NPDES/SIP Reporting Limit
1/7/03	12:55	Effluent		WW	1	250ml	4				J-Flags
1/7/03	12:45	Effluent		WW	1	500ml	1P				
1/6/03	12:15	Blank		RW	1	500ml	2				
1/7/03	12:55	Effluent		WW	1	500ml	2				
1/7/03	12:40	Deer Creek		FW	1	500ml	2				
1/7/03	12:55	Effluent		WW	1	500ml	1P				
1/7/03	12:40	Deer Creek		FW	1	500ml	1P				
1/7/03	12:55	Effluent		WW	1	1-LP					
1/7/03	12:40	Deer Creek		FW	1	1-LP					
SUSPECTED CONSTITUENTS								SAMPLE RETENTION TIME		PRESERVATIVES:	
										(1) HCL (2) HNO ₃	
RELINQUISHED BY (SIGN)								DATE / TIME		RECEIVED BY (SIGN)	
David Thomas								1/7/03 1:50		David Thomas/RB1	
RECD AT LAB BY:								DATE/TIME		CONDITIONS / COMMENTS:	
APR								10/03 1350			
SHIPPED BY:								UPS		AIR BILL #	
FED X								OTHER			

FEBRUARY 2003

Robertson-Bryan, Inc.
9766 Waterman Rd.; Ste. L2
Elk Grove, CA 95624

02/24/2003

Attention: **David Thomas**

Reference: **Analytical Results**

Project Name: **DCWWTP ERWQA**
Project No. : **N/A**
Date Received: **02/04/2003**
Chain Of Custody : **36632**

CLS ID No.: **CMB0046**

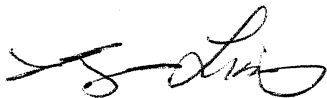
The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
1	10 Days	NPDES Asbestos – Water
1	10 Days	NPDES Tributyltin - Water

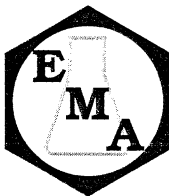
These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director



24 February 2003

CLS Labs

EMA Log #: 0302037

Attn: James Liang

3249 Fitzgerald Road

Rancho Cordova, CA 95742

Project Name: DCWWTP - ERWQA

Enclosed are the results of analyses for samples received by the laboratory on 02/06/03 09:40. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

A handwritten signature in black ink, appearing to read 'Janis Columbo', is written over the printed name.

Janis Columbo

Vice President / Laboratory Director

CA ELAP Certification #: 1931

Client Name: CLS Labs
Project Name: DCWWTP - ERWQA

EMA Log #: 0302037

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	0302037-01	Water	02/04/03 12:30	02/06/03 09:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP - ERWQA

EMA Log #: 0302037

Organotin Compounds by GC - FPD

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (0302037-01) Water Sampled: 02/04/03 12:30 Received: 02/06/03 09:40									
Tributyltin	ND	0.005	ug/l	1	3021003	02/10/03	02/18/03	GC - FPD	
Dibutyltin	ND	0.02	"	"	"	"	"	"	
Monobutyltin	ND	0.02	"	"	"	"	"	"	
Surrogate: Triphenyltin		83 %	39-139		"	"	"	"	
Surrogate: Tri-n-propyltin		91 %	39-139		"	"	"	"	

These results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP - ERWQA

EMA Log #: 0302037

Organotin Compounds by GC - FPD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3021003										
Blank (3021003-BLK1)										
					Prepared: 02/10/03 Analyzed: 02/18/03					
Tributyltin	ND	0.005	ug/l							
Dibutyltin	ND	0.02	"							
Monobutyltin	ND	0.02	"							
Surrogate: Tripentyltin	0.180		"	0.250		72	39-139			
Surrogate: Tri-n-propyltin	0.181		"	0.250		72	39-139			
LCS (3021003-BS1)										
					Prepared: 02/10/03 Analyzed: 02/18/03					
Tributyltin	0.19	0.005	ug/l	0.250		75	45-134			
Dibutyltin	0.076	0.02	"	0.249		30	5-88			
Monobutyltin	0.0054	0.02	"	0.250		2	0-16			J
Surrogate: Tripentyltin	0.213		"	0.250		85	39-139			
Surrogate: Tri-n-propyltin	0.208		"	0.250		83	39-139			
LCS Dup (3021003-BSD1)										
					Prepared: 02/10/03 Analyzed: 02/18/03					
butyltin	0.22	0.005	ug/l	0.250		88	45-134	16	30	
Dibutyltin	0.063	0.02	"	0.249		25	5-88	18	30	
Monobutyltin	0.0098	0.02	"	0.250		4	0-16	58	30	QL-04, J
Surrogate: Tripentyltin	0.229		"	0.250		92	39-139			
Surrogate: Tri-n-propyltin	0.224		"	0.250		90	39-139			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: CLS Labs
Project Name: DCWWTP - ERWQA

EMA Log #: 0302037

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- QL-04 Due to typical low recoveries for this analyte, the RPD will often fall outside the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



W.W.H. 030800 /

CLS - Labs

CHAIN OF CUSTODY

CLS ID No.:

LOG NO. 32904

REPORT TO:

NAME AND ADDRESS

3249 FITZGERALD RD.

RANCHO CORDOVA, CA 95742

PROJECT MANAGER

James Lloyd

PHONE#

(916) 638-7301

PROJECT NAME

DCWWTP - EREWQA

SAMPLED BY

David Thomas

JOB DESCRIPTION

CLIENT JOB NUMBER

CMB0046

DESTINATION LABORATORY

☐ CLS (916) 638-7301

3249 FITZGERALD RD.

RANCHO CORDOVA, CA.

95742

☒ OTHER

Enviromatrix

DATE

TIME

SAMPLE IDENTIFICATION

020403

1230

Effluent

ANALYSIS REQUESTED

PRESERVATIVES

TRT (EV-0241025)

DATE

TIME

SAMPLE IDENTIFICATION

020403

1230

Effluent

FIELD CONDITIONS:

COMPOSITE:

FEB 6'03 9.68

TURN AROUND TIME

SPECIAL INSTRUCTIONS

NPDES/SIP

J-Flags

SUSPECTED CONSTITUENTS

RELINQUISHED BY (SIGN)

DATE / TIME

02-05-03 1700

PRINT NAME / COMPANY

aminted / Cus

RECEIVED BY (SIGN)

DATE / TIME

02-05-03 1700

PRINT NAME / COMPANY

INVOICE TO:

PO. #

QUOTE #

INVOICE TO:

PO. #

QUOTE #

INVOICE TO:

PO. #

QUOTE #

CONDITIONS / COMMENTS:

10°C

AIR BILL #

EMSL Analytical, Inc

382 South Abbott Avenue, Milpitas, CA 95035

Phone: (408) 934-7010 Fax: (408) 934-7015 Email: milpitaslab@emsl.com

EMSL

Attn: James Liang
California Laboratory Services
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Fax: (916) 638-4510 Phone: 916-638-7301
Project: CMB0046

Customer ID: CALI52
Customer PO: Check#1441 \$100.
Received: 02/05/03 12:15 PM
EMSL Order: 090300059
EMSL Project ID:
Analysis Date: 2/10/2003

COMMENTS

Determination of Asbestos Structures in Drinking Water Performed by the EPA 100.1 Method

SAMPLE ID	#ASBESTOS FIBERS	# NON-ASBESTOS FIBERS	TYPE(S) OF ASBESTOS	ANALYTICAL SENSITIVITY (MFL)	CONFIDENCE LIMITS	CONCENTRATION OF ASBESTOS FIBERS (MFL)
Effluent 090300059-0001	0	0		0.20	0.00-0.76	<0.76

Patrick Kelleher

Analyst

Patrick Kelleher

or other approved signatory

ACCREDITATIONS: AIHA #107748, NVLAP #101048-3

M100-2-1

