ENCYCLE/TEXAS, INC.

FINAL CLOSURE CERTIFICATION REPORT - LETTERED BINS BUILDING (BUILDING C)

Volume 1 of 2

November 5, 2004

ARCADIS

Infrastructure, buildings, environment, communications

ARCADIS

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FINAL CLOSURE CERTIFICATION REPORT – LETTERED BINS BUILDING (BUILDING C)

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Corpus Christi, Texas

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1.0 Introduction

ARCADIS G&M, Inc. (ARCADIS) was retained by Encycle/Texas, Inc. (Encycle) to supervise closure of a hazardous waste storage building (Lettered Bins Building) located at the Encycle Facility in Corpus Christi, Texas. The Lettered Bins Building consists of 16 concrete bins (Bins A, B, C, D, E, F, G, GG, H, K, L, M, N, P, R and S) that were empty at the time of closure. The Lettered Bins Building, also referred to in the Encycle Notice of Registration (NOR) as "Building C", was an Authorized Unit that had previously been used for storage of solid industrial and hazardous waste with a maximum capacity of 3,417 cubic yards.

In accordance with the Stipulation and Order Modifying Consent Decree between the United States and the State of Texas vs. Encycle/Texas Inc. and ASARCO Incorporated, that was entered into the U.S. District Court for the Southern District of Texas on August 13, 2004, Encycle agreed to complete RCRA final closure of the facility's hazardous and solid waste management units no later than January 1, 2005. This report presents final closure activities associated with the Lettered Bins Building (Building C). Closure activities for other hazardous and solid waste management units at the facility have been completed or are currently in progress, and will be addressed in separate reports.

The closure activities for the Lettered Bins Building were conducted in accordance with the November 1999 Closure Plan (Closure Plan) entitled "Final Facility Closure and Post-Closure Plan for Permitted, Interim-Authorized, and Planned Permitted Units" as revised on February 4, 2000; the Facility Permit No. HW-50221-001 issued by the Texas Commission on Environmental Quality (TCEQ) on September 27, 2002; and the August 13, 2004 Stipulation and Order Modifying Consent Decree. As detailed below, the Lettered Bins Building was decontaminated between January and October 2004. Decontamination continued until verification rinse water sampling showed that no hazardous wastes remained, and the decontamination standards had been met. Additionally, as specified in the Closure Plan, soil samples were collected below the floor of the units in areas where the concrete was cracked. The soil samples were analyzed for constituents previously managed at the facility.

All wastes have been removed from the Lettered Bins Building, and verification rinse water sample analytical data demonstrates that the units have been decontaminated as specified in the Closure Plan.

2.0 Facility Location and Description

The Encycle facility is approximately 108 acres in size and is located at 5500 Up River Road in Corpus Christi, Texas. The facility was originally developed by American Smelting and Refining Company (now ASARCO, Inc.) in 1941 to process mineral ores for the production of high grade zinc. The facility was shut down during 1985, and the site was inactive from 1986 until 1988. The facility was operated by Encycle from 1988 through 2002 as a commercial waste management facility treating primarily inorganic hazardous and non-hazardous materials for the purpose of recycle, reclaimation, and reduction in volume using a hydro-metallurgical process. Facility operations ceased in 2003, and final facility closure activities are currently in progress.

The facility's TCEQ Industrial Solid Waste Registration Number and U.S. Environmental Protection Agency (EPA) Identification Number are 30003 and TXD008117186, respectively. The facility's Industrial Solid Waste Management Permit Number is HW50221-001.

3.0 Lettered Bins Building Description

The Lettered Bins Building is located in the central portion of the Encycle facility as shown on Figure 1. The Lettered Bins Building has reinforced concrete floors, walls, curbs, and/or ramps to contain any spills, and 16 concrete bins (Bins A, B, C, D, E, F, G, GG, H, K, L, M, N, P, R and S) are present in the building (see Appendix A, photographs 1 through 17).

As shown on Figure 2, each bin is separated by 18-inch-thick reinforced concrete walls. With the exception of Bins G and GG, the bins are approximately 83 feet in length and 29 feet in width, with a capacity of 48,470 gallons (240 yd^3) per bin. Bins G and GG are approximately 83 feet in length and 14 feet in width, and each has a capacity of 5,745 gallons (28.45 yd^3). Descriptions of each bin are provided on Table 1 and in Appendix B. As noted on Table 1, the facility Notice of Registration (NOR) lists 18 lettered bins, whereas only 16 lettered bins exist. Bins I and J listed on the NOR never existed, and these NOR Unit Numbers (028 and 029) should be closed and removed from the NOR.

The Lettered Bins Building was RCRA Permitted (Permit No. HW-50221-001) for storage of solid industrial and hazardous waste with a maximum capacity of 3,417 cubic yards. The concrete bins had previously been used for storage of bulk solid

industrial and hazardous waste, and all wastes were removed from the bins prior to initiation of final closure activities.

4.0 Closure Activities

4.1 General

Closure activities for the Lettered Bins Building were conducted as specified in the Closure Plan. The closure activities included (1) waste removal, (2) unit decontamination, (3) verification rinsate sampling, (4) soil sampling below failures in secondary containment systems, (5) decontamination of cleanup equipment, (6) soil evaluation, and (7) groundwater evaluation.

The closure activities are discussed in the following subsections.

4.2 Waste Removal

The Lettered Bins Building was empty at the time of closure. The bin contents were transported offsite for recycling or disposal prior to initiation of closure activities.

4.3 Unit Decontamination

Lettered Bins Building final closure activities were conducted between January and October 2004. As specified in the Closure Plan, each unit in the Lettered Bins Building (Bins A, B, C, D, E, F, G, GG, H, K, L, M, N, P, R and S) was decontaminated to the appropriate risk-based standard at the time of closure. The current TCEQ risk-based standards are the Texas Risk Reduction Program (TRRP) protective concentration levels (PCLs) given in 30 Texas Administrative Code (TAC) Chapter 350. All of the units were decontaminated until the final rinse water sample from each unit met the Tier 1 Groundwater PCLs given in 30 TAC Chapter 350.

Unit decontamination activities were conducted by qualified Encycle personnel and contractors under the supervision of an independent Texas-Registered Professional Engineer (Kenneth Brandner of ARCADIS G&M, Inc.). As specified in the Closure Plan, the concrete floors, walls, ramps, and curbs in each unit were inspected by the Professional Engineer for breeches and failures in the secondary containment system. As shown on Figure 2, cracks were present on the concrete floors of each unit. Therefore, prior to decontamination activities, the cracks were sealed with concrete grout (Portland Type I Cement) to prevent migration of rinsate through the cracks and

out of the containment area. The cracks were marked, and soil samples were collected below the cracks as detailed below in Section 4.6.

Decontamination activities initially involved cleaning of the building floors, walls, ramps, and curbs using fresh water washing and hydroblasting to remove any waste residuals. The washwater and waste residuals were removed from each unit using a vacuum truck, and routed to the Encycle wastewater treatment system.

Decontamination continued until all visible evidence of waste residuals had been removed. Each unit was then triple-rinsed by pressure washing, and the rinse water was collected using a vacuum truck and routed to the Encycle wastewater treatment system. Following triple-rinsing, a rinsate sample was collected from each unit as described below in Section 4.4.

4.4 Verification Rinsate Sampling

4.4.1 Verification Rinse Water Sample Collection Procedures

As specified in the Closure Plan, following decontamination, a low volume rinsate sample was collected from the floor of each unit. Rinse water was poured onto the floor of each unit, and a rinsate sample was collected using a new polyethylene bailer and transferred directly into laboratory-provided sample containers. Each rinsate sample was analyzed for all constituents of concern (COCs) previously managed at the Encycle facility. The list of COCs, previously provided to the TCEQ in the approved RCRA Facility Investigation Work Plan dated January 31, 2000, is provided in Appendix C. Samples for total metals analyses were placed into 16-ounce polyethylene bottles with nitric acid preservative. Samples for cyanide analysis were placed into 1-liter polyethylene bottles with sodium hydroxide (NaOH) preservative. The sample bottles were securely capped, labeled, placed into a cooler with ice, and submitted to an independent analytical laboratory.

The verification rinse water samples were analyzed within EPA-specified holding times using the analytical protocols specified in the EPA document entitled "Test Methods for Evaluating Solid Waste (EPA SW-846)."

4.4.2 Verification Rinse Water Sample Analytical Results

Verification rinse water sample analytical results are summarized on Table 2, and copies of the analytical laboratory reports are provided in Appendix D. As shown on

Table 2, the concentrations of several metals in the initially collected verification rinse water samples from each unit exceeded the decontamination standards (TRRP Tier 1 Groundwater PCLs). Therefore, as specified in the Closure Plan, decontamination of each unit continued. The units were further decontaminated using detergent water washing, scrubbing, pressure washing, and/or steam cleaning. The cleaning water was collected using a vacuum truck and routed to the Encycle wastewater treatment system.

Following the additional decontamination activities, verification rinse water samples were collected from each unit. Plant water obtained from a nearby water spigot was poured onto the floor of each unit, and rinsate samples were then collected from the floor for analysis of each constituent that exceeded the decontamination standards. As shown on Table 2, cadmium and lead concentrations in several rinsate samples continued to exceed the decontamination standards following the additional cleaning activities. Therefore, samples of plant water (plant water blanks) used for unit decontamination (Sample IDs: Rinse Water Blank, Fire Hydrant Water Blank) were collected on September 8, 2004 for cadmium and lead analyses. As shown on Table 2, the plant water blank samples contained low concentrations of lead (0.0186 to 0.0425 mg/L), and one plant water blank contained a low concentration of cadmium (0.0063 mg/L). Therefore, following receipt of the plant water blank analytical results, as specified in Section 4.6.2 of the Closure Plan, deionized water rather than plant water was poured onto the floor of each unit. A rinsate sample was then collected using a new polyethylene bailer and transferred directly into laboratory-provided 16-ounce polyethylene bottles with nitric acid preservative.

If the verification rinse water samples showed the decontamination standards were exceeded for one or more metals, the unit decontamination and rinsate sampling procedures described above were repeated until verification rinse water sample analytical results showed that the decontamination standards for all COCs had been attained.

4.4.3 Bin S Concrete Sampling

As shown on the site photographs in Appendix A, most of the concrete bins in the Lettered Bins building are coated with red chemical-resistant paint (Bins B, G, GG, H and R are unpainted). The Facility No. 3 permitted container storage area concrete floor also is coated with red chemical-resistant paint, and laboratory analysis of paint chips showed the Facility 3 paint contains lead. Therefore, the concrete below the red paint in Bin S was analyzed for lead to determine if the concrete floor underlying the paint is affected with lead.

The concrete sample was collected from the approximate mid-point of the Bin S floor using a 2-inch-diameter, diamond-tipped concrete core barrel. The concrete core sample was removed from the core barrel and placed into a 16-ounce widemouthed glass jar with a Teflon-lined lid. The sample container was securely capped, labeled, placed into a cooler with ice, and submitted to the analytical laboratory for total lead analysis using EPA Method 6010.

The Bin S Concrete floor sample lead result is summarized on Table 3, and a copy of the analytical laboratory report is provided in Appendix F. As shown on Table 3, the lead concentration in the concrete (2 milligrams per kilogram (mg/kg)) was below the site-specific background value for lead in soil, and also below the Texas-specific median background concentration for lead in soil (15 mg/kg) given in 30 TAC Chapter 350.51. Therefore, the Bin S concrete sample analytical data indicates the Lettered Bins Building concrete is not affected with lead associated with the red chemical-resistant paint. Also, as shown on Table 2, verification rinse water sample analytical data from the Bin S floor showed that the decontamination standards for all COCs, including lead, had been attained

4.5 Decontamination of Cleanup Equipment

Following Lettered Bins Building decontamination activities, the Lettered Bins Building cleanup equipment (vacuum truck hoses, pressure washing hoses) and safety equipment (personnel boots) were washed, and the wash water was routed to the Encycle wastewater treatment system. The equipment was then moved to other units at the Encycle facility undergoing final closure. Following closure of all units, the cleanup equipment and non-disposable safety equipment will undergo final decontamination as specified in the Closure Plan.

4.6 Soil Sampling Below Failures in Secondary Containment Systems

4.6.1 Soil Sample Collection Procedures

The concrete floors, walls, ramps, and curbs in each unit of the Lettered Bins Building were visually inspected by the Professional Engineer during 2004 for breeches and failures in the secondary containment system. One or more cracks were present on the concrete floors of each unit. Therefore, as specified in the Closure Plan, soil samples were collected along the failures (cracks), with one sample per every 20 feet of failure. Soil samples were not collected from superficial cracks (i.e., those that penetrate only

several millimeters into the containment floor). Soil sample locations are shown on Figure 2.

As discussed above in Section 4.3, prior to soil sample collection, the cracks were sealed with concrete grout (Portland Type I Cement) to prevent migration of rinsate through the cracks and out of the containment area. The cracks were marked, and soil samples were collected below the cracks during September 2004.

The concrete floor was cored at each sample location using a 4-inch-diameter diamond core barrel. Soil samples were then collected using a stainless steel hand auger. Prior to collection of each sample, the hand auger was cleaned using a non-phosphate detergent wash, water rinse, and distilled water final rinse. Equipment cleaning water was routed to the Encycle wastewater treatment system. Two soil samples were collected at each sample location: a 0-0.5 foot depth sample, and a 2-2.5 foot depth sample. The soil samples were placed into 16-ounce widemouth glass jars with Teflon-lined lids. The sample jars were securely capped, labeled, placed into a cooler with ice, and submitted with chain of custody documents to an independent analytical laboratory. Following soil sample collection, the soil borings were plugged with concrete.

4.6.2 Soil Sample Analytical Results

Each 0-0.5 foot depth soil sample was analyzed for the constituents previously managed at the facility (see Appendix C). Following receipt of the analytical results for the 0-0.5 foot depth soil samples, the 2-2.5 foot depth soil samples were analyzed for constituents that exceeded background concentrations in the 0-0.5 foot depth soil samples. The soil background concentrations for the site were previously approved by the TCEQ, and a copy of the approved background concentrations is provided in Appendix E.

The soil samples were analyzed within EPA-specified holding times using the analytical protocols specified in the EPA document entitled "Test Methods for Evaluating Solid Waste (EPA SW-846)." Soil sample analytical results are summarized on Table 4, and copies of the analytical laboratory reports are provided in Appendix G. As shown on Table 4, the concentrations of several metals in the 0-0.5 foot depth soil samples exceeded background concentrations. Metals concentrations in the 2-2.5 foot depth soil samples were generally lower, indicating metals concentrations in soil decline with depth.

4.7 Soil Evaluation

As discussed above in Section 4.6.2, the concentrations of several metals in the soil samples below the Lettered Bins Building concrete floor exceeded background concentrations, and metal concentrations in soil generally declined with depth. One or more 0-0.5 foot depth soil samples in Bins A, C, D, E, F, G, GG, H, and P contained arsenic, cadmium, lead, and/or nickel concentrations above the TRRP Tier 1 commercial/industrial PCLs for combined ingestion, dermal contact, inhalation of volatiles and particulates, and ingestion of above-ground and below-ground vegetatables ($^{Tot}Soil_{Comb}$). The concentrations of arsenic, cadmium, lead and nickel in the 2-2.5 depth soil samples are lower and do not exceed the TRRP Tier 1 PCLs for $^{Tot}Soil_{Comb}$. Arsenic, cadmium, and lead concentrations in several soil samples also exceed the Tier 1 PCLs for soil-to-groundwater leaching to Class 3 groundwater ($^{GW}Soil_{Class3}$).

A facility-wide baseline risk assessment (BLRA) was submitted to the TCEQ on April 14, 2004 as part of the RCRA corrective action activities specified in the October 1999 Consent Decree, and a BLRA Addendum was submitted to the TCEQ on August 27, 2004. Following TCEQ approval of the BLRA, Encycle will conduct a corrective measures study (CMS). Encycle also intends to deed record the property for commercial/industrial land use, and prohibit the future installation of any water wells at the property, eliminating the groundwater ingestion exposure pathway. The constituents detected in the soil samples below the Lettered Bins Building concrete floor will be evaluated as part of the CMS.

4.8 Groundwater Evaluation

Based on previous investigations conducted at the site as part of the RCRA Facility Investigation, groundwater occurs at a depth of approximately 18 feet in the Lettered Bins Building area. As shown on Figure 3, groundwater flow direction in the Lettered Bins Building area is northerly, and monitor well MW-15 is located directly north (hydraulically downgradient) of the Lettered Bins Building. A copy of the monitor well MW-15 completion diagram is provided in Appendix H.

As part of the RCRA Facility Investigation, groundwater samples were collected from monitor well MW-15 on a monthly frequency between December 2001 and February 2002. Groundwater analytical data is summarized on Table 5. As shown on Table 5, constituent concentrations in groundwater samples collected from monitor well MW-15 did not exceed background concentrations except for cyanide (0.23 mg/L) in the

December 11, 2001 groundwater sample. Cyanide was not detected in subsequent groundwater samples collected from monitor well MW-15 on January 16, 2002 and February 12, 2002. Additional details regarding the groundwater quality data at the site is provided in the report entitled "RCRA Facility Investigation Report" that was submitted to the TCEQ on August 14, 2002.

5.0 Summary and Conclusions

Closure of the Lettered Bins Building has been conducted in accordance with the November 1999 Closure Plan entitled "Final Facility Closure and Post-Closure Plan for Permitted, Interim-Authorized, and Planned Permitted Units" as revised on February 4, 2000; the Facility Permit No. HW-50221-001 issued by the TCEQ on September 27, 2002; and the August 13, 2004 Stipulation and Order Modifying Consent Decree. All wastes have been removed from the Lettered Bins Building, and verification rinse water sample analytical data demonstrates that the units have been decontaminated as specified in the Closure Plan. Therefore, no post-closure care is required for the Lettered Bins Building.

Several constituents in soil samples collected directly below the concrete floor of the Lettered Bins Building exceed background concentrations, and metal concentrations in soil generally declined with depth. One or more 0-0.5 foot depth soil samples in Bins A, C, D, E, F, G, GG, H, and P contained arsenic, cadmium, lead and/or nickel concentrations above the TRRP Tier 1 commercial/industrial PCLs for $^{Tot}Soil_{Comb}$. The concentrations of total arsenic, cadmium, lead and nickel in the 2-2.5 depth soil samples are lower and do not exceed the TRRP Tier 1 PCLs for $^{Tot}Soil_{Comb}$. Arsenic, cadmium, and lead concentrations in several soil samples also exceed the Tier 1 PCLs for soil-to-groundwater leaching to Class 3 groundwater ($^{GW}Soil_{Class3}$).

A facility-wide BLRA was submitted to the TCEQ on April 14, 2004 as part of the RCRA corrective action activities specified in the October 1999 Consent Decree, and a BLRA Addendum was submitted to the TCEQ on August 27, 2004. Following TCEQ approval of the BLRA, Encycle will conduct a CMS. Encycle also intends to deed record the property for commercial/industrial land use, and prohibit the future installation of any water wells at the property, eliminating the groundwater ingestion exposure pathway. The constituents detected in the soil samples below the Lettered Bins Building concrete floor will be evaluated as part of the CMS.

6.0 Certification of Closure

CLOSURE CERTIFICATION
LETTERED BINS BUILDING (BUILDING C)
ENCYCLE/TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TEXAS

Professional Engineer's Certification

I, Kenneth J. Brandner, do hereby certify that the closure of the Lettered Bins Building at the Encycle/Texas, Inc. facility has been completed as specified in the November 1999 Closure Plan entitled "Final Facility Closure and Post-Closure Plan for Permitted, Interim-Authorized, and Planned Permitted Units" as revised on February 4, 2000; the Facility Permit No. HW-50221-001 issued by the TCEQ on September 27, 2002; and the August 13, 2004 Stipulation and Order Modifying Consent Decree. I have personally examined the Lettered Bins Building and am familiar with the information submitted in this document and all attachments, which has been prepared in compliance with good engineering practices. The information provided in this document is true, accurate, and complete to the best of my knowledge.

(Seal)

Signature: Kenneth J. Brandner

Kenneth J. Brandner, P.E.

Registration No.: 69586

Date: 11/5/04

CLOSURE CERTIFICATION
LETTERED BINS BUILDING (BUILDING C)
ENCYCLE/TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TEXAS

Owner's Certification

I, RICHARD MARCUS (Name), PLANT MANAGER (Title)

Certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of civil penalty and criminal fine.

Signature: _____ Date: 11/4/04

TABLES

Table 1. Lettered Bins Building (Building C) Unit Descriptions, Encycle/Texas, Inc., Corpus Christi, Texas

Encycle Unit Name	NOR Unit Sequence Number	Consent Decree Table 5 Reference No.	Unit Description	Unit Capacity (gallons)
Bin A, Building C	019	LB-1	Bin A	48,470
Bin B, Building C	020	LB-2	Bin B	48,470
Bin C, Building C	021	LB-3	Bin C	48,470
Bin D, Building C	022	LB-4	Bin D	48,470
Bin E, Building C	023	LB-5	Bin E	48,470
Bin F, Building C	024	LB-6	Bin F	48,470
Bin G, Building C	025	LB-7	Bin G	5,745
Bin GG, Building C	026	LB-8	Bin GG	5,745
Bin H, Building C	027	LB-9	Bin H	48,470
Bin I, Building C*	028*	(not assigned)	NA - Bin I does not exist.	NA
Bin J, Building C*	029*	(not assigned)	NA - Bin J does not exist.	NA
Bin K, Building C	030	LB-10	Bin K	48,470
Bin L, Building C	031	LB-11	Bin L	48,470
Bin M, Building C	032	LB-12	Bin M	48,470
Bin N, Building C	033	LB-13	Bin N	48,470
Bin P, Building C	034	LB-14	Bin P	48,470
Bin R, Building C	035	LB-15	Bin R	48,470
Bin S, Building C	036	LB-16	Bin S	48,470

NOR Notice of Registration for SWR No. 30003

* Bin I and Bin J never existed (see Figure 2). NOR Unit Numbers were inadvertenly assigned to these two non-existent bins. These NOR Unit Numbers (028 and 029) should be closed.

Table 2. Rinse Water Analytical Results Summary - Lettered Bins Concrete Floor (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin A Rinse	5/5/04	0.0201	0.04	0.08	<0.2	0.711	<0.01	0.02	1.37	<0.02	1.38	0.06	<0.002	5.16	0.01	<0.005	0.0372	<0.02	<0.01	3.36
	8/30/04	<0.006	<0.01			0.0073			0.0729		0.0556			0.0339			<0.002			
	8/31/04					0.005					0.0308									
	9/29/04										<0.01									
Bin B Rinse	5/4/04	0.0367	0.06	0.12	<0.2	0.341	0.03	0.03	3.59	<0.02	2.41	0.06	<0.002	1.01	<0.01	<0.005	0.0130	<0.02	<0.01	3.47
Bin B (duplicate)	5/4/04	0.0304	0.09	0.16	<0.2	0.320	0.04	0.04	5.02	<0.02	3.34	0.09	<0.002	1.42	<0.01	0.007	0.0137	0.04	<0.01	6.13
	9/14/04	0.009	<0.01			0.0036			0.0485		0.0304						<0.002			
	9/14/04*	<0.006	---			0.0024			---		0.0924						---			
	9/15/04	<0.006	<0.01			<0.002			0.0345		0.0268						<0.002			
	9/15/04*					<0.002					<0.01									
Bin C Rinse	5/3/04	<0.001	<0.01	0.08	<0.2	0.0215	<0.01	<0.01	0.18	<0.02	0.08	0.02	<0.002	0.03	<0.01	<0.005	<0.001	<0.02	<0.01	0.39
	8/26/04					0.0053					0.0938									
	8/26/04*					0.0053					0.0693									
	9/16/04					<0.002					<0.01									
	9/16/04*					<0.002					<0.01									
Bin D Rinse	4/29/04	0.0146	0.02	0.08	<0.2	1.050	<0.01	0.02	0.20	<0.02	0.43	0.23	<0.002	5.61	0.01	<0.005	0.0517	<0.02	<0.01	8.30
	8/25/04	<0.006	<0.01			0.0055					0.0582			0.0157			<0.002			
	8/25/04*	---	---			0.0076					0.0667			---			---			
	9/8/04	<0.01	<0.01			0.0025					0.0264			<0.01			<0.002			
	9/8/04*					<0.002					0.0259									
	9/28/04										<0.01									
Bin E Rinse	4/29/04	0.0062	0.03	0.08	<0.2	1.290	<0.01	0.06	0.53	<0.02	1.04	0.26	<0.002	2.21	0.01	<0.005	0.0197	<0.02	<0.01	15.3
	8/24/04	<0.006	<0.01			0.008					0.0734			0.0123			<0.002			
	8/24/04*					0.0054					0.0549									
	9/21/04					0.0208					0.429									
	9/28/04					0.0307					0.0816									
	10/4/04					<0.002					<0.01									

Table 2. Rinse Water Analytical Results Summary - Lettered Bins Concrete Floor (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin F Rinse	4/22/04	<0.001	<0.01	0.09	<0.2	0.0127	<0.01	<0.01	0.07	<0.02	0.07	0.02	<0.002	0.02	<0.01	<0.005	<0.001	<0.02	<0.01	0.30
	8/23/04					0.0072					0.0432									
	9/7/04					0.0062					0.173									
	9/7/04*					<0.002					0.0488									
	9/27/04										0.0122									
Bin G Rinse	4/21/04	0.0011	0.03	0.11	<0.20	0.0724	0.27	0.01	0.46	<0.02	0.75	0.07	<0.002	0.23	<0.01	<0.005	<0.001	<0.02	<0.01	5.28
	9/9/04		<0.01			<0.002	<0.005				0.0204									
	9/9/04*		---			<0.002	---				0.017									
	9/10/04		<0.01			<0.002	<0.005				0.0124									
	9/10/04*					<0.002					<0.010									
Bin GG Rinse	4/21/04	0.0016	<0.01	0.09	<0.20	0.104	0.04	<0.01	0.15	<0.02	0.26	0.04	<0.002	0.19	<0.01	<0.005	<0.001	<0.02	<0.01	1.73
	9/1/04					0.0099					0.0544									
	9/1/04*					0.0131					0.0508									
	9/2/04					0.0074					0.0642									
	9/2/04*					0.0061					0.0782									
	9/20/04					<0.002					<0.01									
	9/20/04*					<0.002					<0.01									
Bin H Rinse	4/20/04	0.0203	0.02	0.08	<0.20	0.122	<0.01	<0.01	0.30	<0.02	0.79	0.03	<0.002	0.05	<0.01	<0.005	0.002	<0.02	<0.01	0.91
	8/18/04	<0.006	<0.01			0.0087					0.0535									
	8/18/04*					0.061					2.94									
	8/19/04					0.0101					0.0906									
	8/19/04*					0.0079					0.0874									
	9/21/04					<0.002					<0.01									

Table 2. Rinse Water Analytical Results Summary - Lettered Bins Concrete Floor (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin K Rinse	4/20/04	0.0052	0.02	0.10	<0.20	0.0645	<0.01	0.03	0.45	<0.02	0.60	0.05	<0.002	0.12	0.01	<0.005	0.0015	<0.02	<0.01	2.88
	6/7/04		<0.01			0.0142					0.156									
	6/8/04					0.0103					0.0804									
	6/14/04					0.0073					0.0498									
	7/14/04					0.0021					0.0258									
	7/15/04										0.0162									
	9/27/04										0.267									
	9/30/04										<0.01									
Bin L Rinse	4/19/04	0.0021	<0.01	0.08	<0.20	0.228	<0.01	0.03	0.26	<0.02	0.56	0.06	<0.002	0.15	<0.01	<0.005	0.0022	<0.02	<0.01	2.55
	6/3/04					0.0099					0.112						<0.002			
	6/4/04					0.0041					0.0302									
	9/23/04										0.12									
	9/29/04										<0.01									
Bin M Rinse	4/16/04	0.0014	<0.01	0.07	<0.20	0.0551	<0.01	<0.01	0.11	<0.02	0.29	0.03	<0.002	0.07	<0.01	<0.005	0.001	<0.02	<0.01	1.16
	6/1/04					0.0036					0.03									
	9/23/04										<0.01									
Bin N Rinse	4/15/04	0.0071	<0.01	0.08	<0.20	0.104	<0.01	<0.01	0.22	<0.02	0.57	0.02	<0.002	0.06	0.01	<0.005	0.0036	<0.02	<0.01	0.76
	5/25/04	0.0077				0.0337					0.247						<0.002			
	5/26/04	<0.005				0.0253					0.179									
	5/27/04					0.010					0.056									
	7/12/04					0.0023					0.0232									
	7/13/04										<0.01									
Bin P Rinse	4/14/04	0.016	0.07	0.06	<0.20	0.0673	<0.01	0.02	0.73	<0.02	1.23	0.03	<0.002	0.11	0.01	<0.005	<0.001	<0.02	<0.01	1.41
Bin P (duplicate)	4/14/04	0.0241	0.12	0.07	<0.20	0.102	<0.01	0.03	1.27	<0.02	2.23	0.05	<0.002	0.16	0.01	<0.005	<0.001	<0.02	<0.01	2.91
	5/24/04	<0.005	0.0242			0.0807					0.286									
	5/25/04		0.0278			0.008					<0.01									
	5/26/04		<0.01			0.0092														
	7/8/04					0.0021														

Table 2. Rinse Water Analytical Results Summary - Lettered Bins Concrete Floor (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin R Rinse	4/14/04	0.0029	<0.01	0.08	<0.20	**0.0503**	0.02	<0.01	0.18	<0.02	**0.88**	0.03	<0.002	0.16	<0.01	<0.005	0.0013	0.02	<0.01	1.48
	5/19/04					**0.0211**					**0.176**									
	5/20/04					**0.0133**					**0.0984**									
	5/24/04					**0.0182**					**0.161**									
	7/6/04					**0.0069**					**0.0839**									
	7/7/04					<0.002					**0.0467**									
	9/22/04										<0.01									
Bin S Rinse	1/20/04	0.0037	<0.01	0.08	<0.20	**0.0207**	<0.01	<0.01	0.26	<0.02	**0.56**	0.03	<0.002	0.19	<0.01	<0.005	<0.001	<0.02	<0.01	0.78
	5/18/04	---	---	---	---	0.0034	---	---	---	---	**0.0567**	---	---	---	---	---	---	---	---	---
	5/19/04										**0.0636**									
	5/20/04										**0.0595**									
	9/22/04										<0.01									
Field Blank	4/19/04	<0.001	<0.01	<0.01	<0.20	<0.001	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.002	<0.01	<0.01	<0.005	<0.001	<0.02	<0.01	<0.01
Field Blank	5/5/04	<0.001	<0.01	<0.01	<0.20	<0.001	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.002	<0.01	<0.01	<0.005	<0.001	<0.02	<0.01	<0.01
Rinse Water Blank	9/8/04	---	---	---	---	**0.0063**	---	---	---	---	**0.0425**	---	---	---	---	---	---	---	---	---
Fire Hydrant Water Blank	9/8/04	---	---	---	---	<0.002	---	---	---	---	**0.0186**	---	---	---	---	---	---	---	---	---
TCEQ TRRP PCLs[a]																				
Tier 1 Groundwater PCL :[b]		0.006	0.01	2	37	0.005	0.1	4.4	1.3	0.2	0.015	10	0.002	1.5	0.05	0.37	0.002	44	0.51	22

mg/L Milligrams per liter
CN Cyanide
Mn Manganese
--- Not analyzed
a Texas Risk Reduction Program (TRRP) commercial/industrial Tier 1 Protective Concentration Levels (PCLs) - 30 TAC Chapter 350.
b TRRP Tier 1 Groundwater PCL.
* Denotes second sample collected later that same day immediately following additional bin decontamination/cleaning/rinsing activities.

Note: Numbers in **bold** exceed rinse water cleanup level specified in Closure Plan (TRRP Tier 1 PCL).

Table 3. Analytical Results - Bin S Concrete, Encycle/Texas, Inc., Corpus Christi, Texas

Sample ID	Sample Date	Sample Location	Lead Concentration (mg/kg)
Bin S Concrete Core	9/8/04	Center of Bin S floor	2
Background Lead Concentrations			
Site-specific soil background concentration for lead:[a]			109.16
Texas-specific median background soil concentration for lead:[b]			15

mg/kg	Milligrams per kilogram
a	Site-specific background lead concentration in surface soil (0-0.5') approved by the TCEQ on October 15, 2001.
b	Texas-Specific Median Background Concentration taken from 30 TAC Chapter 350.51.
Note:	Bin S concrete lead concentration does not exceed site-specific soil background concentration or the Texas-specific median background soil concentration.

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin A, Crack 1	9/3/04	0-0.5	<1	4	283	<3	**881**	6	6	5	<1	5	245	<0.2	**3,790**	<1	<0.5	**52**	<2	20	1,620
		2-2.5	---	---	---	---	**26**	---	---	---	---	---	---	---	**109**	---	---	<1	---	---	300
Bin A, Crack 2	9/3/04	0-0.5	<1	16	136	<3.4	**523**	6	**15**	**5,480**	<1	**219**	<1	**0.4**	**3,170**	**2**	**3.6**	**40**	<2	13	52,300
		2-2.5	---	---	---	---	3	---	3	**51**	---	12	---	---	**36**	<1	<0.5	<1	---	---	83
Bin A, Crack 3	9/3/04	0-0.5	<1	5	132	<3.1	**2,140**	6	7	**70**	<1	8	275	<0.2	**4,210**	<1	<0.5	**15**	<2	21	2,900
		2-2.5	---	---	---	---	2	---	---	5	---	---	---	---	**209**	---	---	<1	---	---	41
Bin A, Crack 4	9/3/04	0-0.5	<1	6	299	<3.4	**2,970**	7	5	6	<1	5	231	<0.2	**2,870**	<1	<0.5	**4**	<2	27	2,060
	SPLP	0-0.5	---	---	---	---	***(9.4)***	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		2-2.5	---	---	---	---	**11**	---	---	---	---	---	---	---	**214**	---	---	<1	---	---	62
Bin B, Crack 1	9/3/04	0-0.5	<1	7	300	<3.8	**78**	8	4	4	<1	6	**441**	<0.2	7	<1	<0.5	**39**	<2	26	3,270
		2-2.5	---	---	---	---	<1	---	---	---	---	---	201	---	---	---	---	<1	---	---	18
Bin B, Crack 2	9/3/04	0-0.5	<1	4	338	<4	2	8	4	39	<1	18	185	<0.2	11	<1	<0.5	**2**	<2	21	78
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	---
Bin B, Crack 3	9/3/04	0-0.5	<1	11	214	<4.2	**206**	7	7	**112**	<1	7	**674**	<0.2	11	**2**	**1.3**	**58**	<2	29	4,960
		2-2.5	---	---	---	---	<1	---	---	4	---	---	195	---	---	<1	<0.5	<1	---	---	16
Bin B, Crack 4	9/3/04	0-0.5	<1	3	361	<3.4	1	7	4	4	<1	6	208	<0.2	7	<1	<0.5	**4**	<2	21	64
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	15
Bin B, Crack 5	9/3/04	0-0.5	<1	3	400	<3.4	**59**	8	4	5	<1	6	**363**	<0.2	**474**	<1	<0.5	**4**	<2	20	503
		2-2.5	---	---	---	---	<1	---	---	---	---	---	---	---	4	---	---	<1	---	---	---
Bin B, Crack 6	9/3/04	0-0.5	<1	2	342	<3.2	2	7	4	6	<1	6	216	<0.2	10	<1	<0.5	1	<2	17	117
	Duplicate	0-0.5	<1	2	205	---	2	8	4	6	<1	6	210	<0.2	11	**1**	<0.5	**2**	<2	19	<1
	9/3/04	2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	<1	---	---	---
Bin C, Crack 1	9/3/04	0-0.5	<1	3	181	<4	**72**	6	2	6	<1	6	95	<0.2	6	<1	<0.5	**4**	<2	17	140
		2-2.5	---	---	---	---	<1	---	---	---	---	---	---	---	---	---	---	<1	---	---	---

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin C, Crack 2	9/3/04	0-0.5	<1	4	335	<4.8	<1	7	4	4	<1	6	198	<0.2	6	<1	<0.5	1	<2	20	35
Bin C, Crack 3	9/2/04	0-0.5	<1	11	293	<3.9	**1,850**	8	**17**	**534**	<1	64.3	**1,070**	<0.2	**126**	**3**	**7.5**	**68**	<2	20	6,710
		2-2.5	---	---	---	---	**788**	---	6	**199**	---	---	<1	---	**72**	**2**	**1.1**	**34**	---	---	7,140
Bin C, Crack 4	9/2/04	0-0.5	<1	**44**	187	<3.3	**1,230**	14	**14**	**379**	<1	**780**	**1,810**	**0.2**	**98**	<1	**8.3**	**2**	2	17	8,390
		2-2.5	---	4	---	---	**31**	---	4	13	---	25	214	---	9	<1	<0.5	<1	---	---	413
Bin C, Crack 5	9/2/04	0-0.5	<1	6	130	<3.8	**362**	8	8	25	<1	7.8	**1,070**	<0.2	**292**	<1	<0.5	<1	<2	17	3,450
		2-2.5	---	---	---	---	**16**	---	---	---	---	---	220	---	**80**	---	---	---	---	---	569
Bin C, Crack 6	9/2/04	0-0.5	<1	4	290	<4.2	7	7	3	5	<1	5.7	122	**0.3**	11	<1	<0.5	**2**	<2	16	587
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	56
Bin C, Crack 7	9/2/04	0-0.5	<1	3	244	<4.3	2	8	4	7	<1	6.1	175	**0.3**	8	<1	<0.5	**2**	<2	14	49
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	---
Bin D, Crack 1	9/1/04	0-0.5	<1	**23**	279	<3.2	2	7	3	7	<1	20.4	161	<0.2	14	<1	<0.5	**9**	<2	19	46
		2-2.5	---	**16**	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---
Bin D, Crack 2	9/1/04	0-0.5	<1	**34**	314	<4.2	7	7	4	8	<1	53.3	172	<0.2	**63**	<1	<0.5	**7**	<2	18	154
		2-2.5	---	3	---	---	---	---	---	---	---	---	---	---	6	---	---	<1	---	---	---
Bin D, Crack 3	9/1/04	0-0.5	<1	10	85	<4.2	**797**	**35**	**11**	**71**	<1	**180**	322	<0.2	**2,140**	**1**	**2.6**	**32**	<2	14	5,140
		2-2.5	---	---	---	---	**8**	6	4	4	---	7	---	---	25	<1	<0.5	<1	---	---	4
Bin D, Crack 4	9/1/04	0-0.5	<1	8	192	<4.2	**463**	**222**	**11**	**242**	<1	**157**	215	<0.2	**8,850**	**14**	**1.8**	**22**	<2	21	2,120
		2-2.5	---	---	---	---	1	13	4	3	---	8	---	---	7	<1	<0.5	<1	---	---	4
Bin E, Crack 1	9/1/04	0-0.5	<1	6	174	<4.4	**419**	**20**	8	25	<1	7.3	157	<0.2	**531**	**2**	<0.5	**4**	<2	14	2,160
		2-2.5	---	---	---	---	1	5	---	---	---	---	---	---	6	<1	---	<1	---	---	4
Bin E, Crack 2	9/1/04	0-0.5	<1	4	239	<4	**23**	6	4	6	<1	10.2	195	**0.3**	12	<1	<0.5	**2**	<2	19	145
		2-2.5	---	---	---	---	**215**	---	---	---	---	---	---	---	---	---	---	<1	---	---	---

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin E, Crack 3	9/1/04	0-0.5	<1	**20**	205	<3.2	**1,240**	**70**	7	**585**	<1	7	184	**0.4**	**100**	<1	<0.5	1	<2	14	1,520
		2-2.5	---	4	---	---	2	5	---	5	---	---	---	---	8	---	---	---	---	---	40
Bin E, Crack 4	9/1/04	0-0.5	<1	**50**	45	<4.3	**114**	8	4	**154**	<1	6.4	130	**0.3**	**88**	<1	<0.5	1	<2	11	37
		2-2.5	---	4	---	---	2	---	---	3	---	---	---	---	8	---	---	---	---	---	---
Bin F, Crack 1	9/15/04	0-0.5	<1	**245**	149	<3.2	**246**	6	**12**	**455**	<1	47	<1	<0.2	**255**	**1**	<0.5	<1	4	14	16,100
		2-2.5	---	3	---	---	<1	---	4	7	---	---	---	---	4	<1	<0.5	---	---	---	28
Bin F, Crack 2	9/15/04	0-0.5	<1	**1450**	177	<4.2	**348**	4	**45**	**133**	<1	**151**	<1	<0.2	**94**	**1**	<0.5	<1	4	12	59,900
	SPLP	0-0.5	---	***(0.14)***	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		2-2.5	---	**31**	---	---	<1	---	2	4	---	6	---	---	3	<1	---	---	---	---	32
Bin F, Crack 3	9/15/04	0-0.5	<1	**126**	171	<4	**19**	4	4	**135**	<1	8	**361**	<0.2	6	<1	<0.5	<1	<2	10	3,100
		2-2.5	---	2	---	---	<1	---	---	2	---	---	226	---	---	---	---	---	---	---	20
Bin G, Crack 1	9/15/04	0-0.5	<1	4	254	<3.4	**111**	**48**	4	21	<1	5	161	<0.2	9	<1	<0.5	<1	<2	20	267
		2-2.5	---	---	---	---	5	7	---	---	---	---	---	---	---	---	---	---	---	---	---
Bin G, Crack 2	9/15/04	0-0.5	<1	5	145	<3.8	**327**	**20**	**12**	**108**	<1	22	160	<0.2	13	<1	<0.5	<1	<2	13	1,410
		2-2.5	---	---	---	---	8	5	5	8	---	---	---	---	---	---	---	---	---	---	44
Bin G, Crack 3	9/15/04	0-0.5	<1	**41**	166	<3.4	**1,980**	**143**	**12**	**646**	<1	**6,890**	223	<0.2	**112**	<1	<0.5	<1	**84**	8	4,650
	SPLP	0-0.5	---	---	---	---	***(15)***	---	---	---	---	***(16.3)***	---	---	---	---	---	---	---	---	---
		2-2.5	---	11	---	---	5	3	3	**66**	---	22	---	---	4	---	---	---	<2	---	23
Bin G, Crack 4	9/15/04	0-0.5	<1	3	155	<3.4	4	10	3	5	<1	5	222	<0.2	10	<1	<0.5	<1	<2	14	93
Bin GG, Crack 1	9/15/04	0-0.5	<1	9	158	<4	**1,140**	6	**17**	31	<1	8	**356**	<0.2	**88**	<1	<0.5	**34**	<2	17	4,350
		2-2.5	---	---	---	---	4	---	3	---	---	---	163	---	4	---	---	<1	---	---	25
Bin GG, Crack 2	9/15/04	0-0.5	<1	2	154	<4.2	**565**	<1	**38**	**1,730**	<1	7	311	<0.2	**43**	<1	<0.5	<1	<2	6	1,590
		2-2.5	---	---	---	---	<1	---	3	4	---	---	---	---	3	---	---	---	---	---	17

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin H, Crack 1	9/15/04	0-0.5	<1	**86**	296	<4	**486**	6	**20**	**95**	<1	**131**	289	<0.2	**30**	<1	<0.5	**50**	4	13	4,000
		2-2.5	---	5	---	---	3	---	6	9	---	26	---	---	5	---	---	<1	---	---	89
Bin H, Crack 2	9/15/04	0-0.5	<1	**204**	183	<3.8	**1,250**	11	**39**	**65**	<1	**1,010**	**360**	<0.2	**133**	**2**	<0.5	**40**	**47**	15	4,610
		2-2.5	---	7	---	---	6	---	2	3	---	23	114	---	4	<1	---	<1	<2	---	75
Bin H, Crack 3	9/15/04	0-0.5	<1	**98**	158	<3.5	**244**	6	**29**	**1,230**	<1	**439**	187	<0.2	**135**	<1	**0.9**	**6**	**169**	14	1,870
		2-2.5	---	**49**	---	---	<1	---	2	13	---	5	---	---	3	---	<0.5	<1	<2	---	<1
Bin H, Crack 4	9/15/04	0-0.5	<1	**38**	392	<4.3	**30**	5	**10**	33	<1	7	233	<0.2	13	<1	<0.5	**5**	<2	12	713
		2-2.5	---	6	---	---	1	---	2	---	---	---	---	---	---	---	---	<1	---	---	34
Bin H, Crack 5	9/15/04	0-0.5	<1	**56**	226	<3.8	4	5	3	28	<1	13	140	<0.2	6	<1	<0.5	<1	<2	17	24
		2-2.5	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bin H, Crack 6	9/15/04	0-0.5	<1	9	204	<3.2	2	5	3	18	<1	8	108	<0.2	7	<1	<0.5	<1	<2	19	22
Bin K, Crack 1	9/15/04	0-0.5	<1	**22**	237	<3.9	4	4	**10**	**61**	<1	16	218	<0.2	8	<1	<0.5	<1	<2	23	806
	Duplicate	0-0.5	<1	**29**	301	<4.7	10	5	**19**	**114**	<1	29	260	<0.2	11	<1	<0.5	<1	<2	22	1,920
	Duplicate	2-2.5	---	2	---	---	---	---	3	4	---	---	---	---	---	---	---	---	---	---	19
Bin K, Crack 2	9/15/04	0-0.5	<1	10	253	<3.9	**111**	5	**10**	**132**	<1	6	234	<0.2	23	**3**	<0.5	<1	<2	18	4,260
		2-2.5	---	---	---	---	<1	---	2	3	---	---	---	---	---	<1	---	---	---	---	87
Bin K, Crack 3	9/14/04	0-0.5	<1	**23**	196	<3.8	**403**	4	**16**	**197**	<1	39	<1	<0.2	**66**	<1	<0.5	<1	<2	17	<1
		2-2.5	---	2	---	---	<1	---	3	2	---	---	---	---	4	---	---	---	---	---	---
Bin K, Crack 4	9/15/04	0-0.5	<1	6	387	<4.2	**31**	6	**23**	7	<1	7	266	<0.2	**45**	**4**	<0.5	<1	<2	22	1,180
		2-2.5	---	---	---	---	<1	---	2	---	---	---	---	---	3	<1	---	---	---	---	26
Bin L, Crack 1	9/14/04	0-0.5	<1	6	285	<4.8	**319**	4	**14**	5	<1	6	168	<0.2	**52**	<1	<0.5	**57**	<2	19	2,400
		2-2.5	---	---	---	---	<1	---	3	---	---	---	---	---	4	---	---	<1	---	---	13

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin L, Crack 2	9/14/04	0-0.5	<1	15	174	<4.2	7	4	4	5	<1	6	184	<0.2	9	<1	<0.5	**20**	<2	16	36
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	---
Bin L, Crack 3	9/14/04	0-0.5	<1	**36**	336	<3.8	**180**	5	**25**	**399**	<1	**238**	195	<0.2	**58**	<1	<0.5	**10**	7	17	428
		2-2.5	---	3	---	---	4	---	3	13	---	17	---	---	5	---	---	<1	---	---	24
Bin M, Crack 1	9/14/04	0-0.5	<1	5	489	<4.9	**475**	4	7	4	<1	7	173	<0.2	**68**	<1	<0.5	<1	<2	16	2,930
		2-2.5	---	---	---	---	<1	---	---	---	---	---	---	---	4	---	---	---	---	---	24
Bin M, Crack 2	9/14/04	0-0.5	<1	3	376	<3.9	<1	3	5	7	<1	5	166	<0.2	5	<1	<0.5	<1	<2	16	43
Bin M, Crack 3	9/14/04	0-0.5	<1	3	259	<3.8	**22**	4	3	13	<1	7	209	<0.2	6	**2**	<0.5	<1	<2	16	34
		2-2.5	---	---	---	---	<1	---	---	---	---	---	---	---	---	<1	---	---	---	---	---
Bin N, Crack 1	9/9/04	0-0.5	<1	15	376	2.6	<1	9	4	3	<1	7	244	<0.2	8	<1	<0.5	**9**	<2	24	39
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	---
Bin N, Crack 2	9/9/04	0-0.5	<1	**32**	376	<4	<1	7	3	20	<1	6	159	<0.2	6	<1	<0.5	<1	<2	24	35
		2-2.5	---	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bin N, Crack 3	9/9/04	0-0.5	<1	**99**	388	<3.8	<1	7	4	13	<1	6	189	<0.2	6	<1	<0.5	<1	<2	26	27
		2-2.5	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bin N, Crack 4	9/9/04	0-0.5	<1	14	271	<4.2	**26**	7	4	33	<1	9	224	<0.2	7	**15**	<0.5	**4**	<2	14	422
		2-2.5	---	---	---	---	<1	---	---	---	---	---	---	---	---	<1	---	<1	---	---	10
Bin P, Crack 1	9/8/04	0-0.5	<1	**177**	266	<4.7	2	6	3	**106**	<1	40	179	<0.2	6	<1	<0.5	1	<2	14	50
		2-2.5	---	**12**	---	---	---	---	---	**19**	---	---	---	---	---	---	---	---	---	---	---
Bin P, Crack 2	9/8/04	0-0.5	<1	**114**	190	<3.8	**20**	9	**14**	**423**	<1	**188**	**519**	<0.2	**37**	<1	<0.5	1	**12**	20	1420
		2-2.5	---	**98**	---	---	**25**	---	**11**	**205**	---	**311**	221	---	**41**	---	---	---	---	---	1740

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Bin P, Crack 3	9/8/04	0-0.5	2	530	153	5.6	229	19	59	1,750	<1	3,730	183	0.2	241	3	1.6	3	168	16	5,460
		2-2.5	<1	31	---	---	10	6	5	52	---	187	---	---	13	<1	<0.5	<1	---	---	662
Bin P, Crack 4	9/8/04	0-0.5	<1	64	217	<3.4	20	6	6	460	<1	140	116	<0.2	23	<1	<0.5	2	5	21	232
		2-2.5	---	25	---	---	17	---	---	77	---	202	---	---	---	---	---	<1	---	---	---
Bin P, Crack 5	9/8/04	0-0.5	<1	56	224	<4	21	7	8	359	<1	209	105	<0.2	28	<1	<0.5	4	20	11	286
		2-2.5	---	30	---	---	31	---	---	190	---	256	---	---	33	---	---	<1	---	---	---
Bin R, Crack 1	9/8/04	0-0.5	<1	3	256	<4.8	<1	7	3	4	<1	4	167	<0.2	6	<1	<0.5	2	<2	20	22
		2-2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	---	---	---
Bin R, Crack 2	9/8/04	0-0.5	<1	4	392	<4	<1	7	4	4	<1	5	175	<0.2	6	<1	<0.5	1	<2	21	32
Bin R, Crack 3	9/8/04	0-0.5	<1	5	261	<3.4	12	8	4	7	<1	6	152	<0.2	8	<1	<0.5	3	<2	27	219
		2-2.5	---	---	---	---	<1	---	---	---	---	---	---	---	---	---	---	<1	---	---	---
Bin R, Crack 4	9/8/04	0-0.5	<1	4	289	<3.9	14	766	2	36	<1	11	150	<0.2	7	<1	<0.5	2	<2	20	335
	Duplicate	0-0.5	<1	10	235	<3.6	16	4680	12	20	<1	16	439	<0.2	11	9	4.1	12	17	21	124
	Duplicate	2-2.5	---	---	---	---	<1	7	5	---	---	---	285	---	---	<1	<0.5	<1	---	---	---
Bin S, Crack 1	9/8/04	0-0.5	<1	14	327	<2.6	2	69	4	68	<1	15	155	<0.2	6	<1	<0.5	1	<2	16	78
		2-2.5	---	---	---	---	---	26	---	26	---	---	---	---	---	---	---	---	---	---	---
Bin S, Crack 2	9/8/04	0-0.5	<1	149	302	<3.4	114	372	4	197	<1	16	229	<0.2	7	<1	<0.5	2	<2	29	1,100
		2-2.5	---	17	---	---	2	8	---	5	---	---	---	---	---	---	---	<1	---	---	70
Bin S, Crack 3	9/8/04	0-0.5	<1	62	226	<2.8	81	136	3	27	<1	56	170	<0.2	7	<1	<0.5	2	<2	18	1,560
		2-2.5	---	5	---	---	<1	7	---	---	---	---	---	---	---	---	---	<1	---	---	18
Field Blank	9/2/04	---	<0.01	<0.01	<0.01	<0.20	<0.01	<0.01	<0.01	<0.01	<0.02	<0.015	<0.01	<0.002	<0.01	<0.01	<0.005	<0.01	<0.02	<0.01	<0.01
Field Blank	9/3/04	---	<0.01	<0.01	<0.01	<0.20	<0.01	<0.01	<0.01	<0.01	<0.02	<0.015	<0.01	<0.002	<0.01	<0.01	<0.005	<0.01	<0.02	<0.01	<0.01
Field Blank	9/15/04	---	<0.01	<0.01	<0.01	<0.20	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.002	<0.01	<0.01	<0.005	<0.01	<0.02	<0.01	<0.01

Table 4. Analytical Results Summary - Soil Samples Below Cracks in Lettered Bins Concrete Floor (mg/kg), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Sample Depth (ft)	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Soil Background Concentrations																					
0-0.5':				16.65		4.9	11.70		9.72	40.33	0.24	109.16	333.73	0.09	25.8	0.89			7.65		(a)
2-2.5':				8.01			4.47			17.20		54.36	360.83		27.21						
unsaturated below 2.5':				21.86			4.97			16.15		38.96	592.50		29.74						
saturated soil sample:				9.8			3.64			18.26		30.92	686.68		25.86						
clay/silt strata:			0.77		720			14.9									0.54	1.02		35.6	
clean sand strata (SP/SW):			0.80		202			35.9									0.50	1.0		15.7	
TCEQ TRRP PCLs[b]																					
Residential $^{Tot}Soil_{Comb}$ Tier 1 PCL:[c]			15	24	2,800	37000	52	30000	3400	550	1600	500	3700	8.3	840	310	96	6.3	35000	290	9900
Commercial/Ind $^{Tot}Soil_{Comb}$ Tier 1 PCL:[c]			310	200	39,000	410000	850	95000	19000	38000	19000	1600	36000	19	8500	4800	1900	78	40000	2400	2.5E+05
Residential $^{GW}Soil_{Class\ 3}$ Tier 1 PCL:[d]			540	500	44,000		150	240000	1.3E+05	1E+05	4000	300	120000	210	16000	230	48	170	1E+06	340000	240000
Commercial/Ind $^{GW}Soil_{Class\ 3}$ Tier 1 PCL:[d]			540	500	44,000		150	240000	4E+05	1E+05	4000	300	1000000	210	47000	230	140	170	1E+06	1E+06	7E+05
Tier 1 Groundwater PCL (Class 3):[e]			0.6	1	200	1,200	0.5	10	150	130	20	1.5	110	0.2	49	5	12	0.2	1500	17	730

mg/kg Milligrams per kilogram
CN *Cyanide*
Mn Manganese
SPLP Synthetic precipitation leaching procedure (results in *italics*)

a April 28, 1997 TNRCC letter stated zinc would not be a good release indicator for a unit at the site. Therefore, zinc background level not given.
b Texas Risk Reduction Program (TRRP) Tier 1 Protective Concentration Levels (PCLs) - 30 TAC Chapter 350.
c TRRP Tier 1 soil PCL for combined ingestion, dermal contact, inhalation of volatiles and particulates, and ingestion of above-ground and below-ground vegetables with constituents of concern (COCs) in soil. 0.5 acre source area.
d TRRP Tier 1 soil PCL for soil-to-groundwater leaching of COCs to saline (Class 3) groundwater. 0.5 acre source area.
e TRRP Tier 1 Groundwater PCL for Class 3 groundwater (total dissolved solids >10,000 mg/L).

Notes: 1) Numbers in **bold** exceed TCEQ-approved background concentrations established for the site.
2) SPLP results parenthesized in *italics*.
3) Numbers **boxed** exceed the TRRP Tier 1 comm/ind PCL for $^{Tot}Soil_{Comb}$.

Table 5. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Fill/Alluvium Upgradient Monitor Wells																					
MW-3	01/30/86	---	---	0.007	---	---	---	---	---	0.01	---	<0.001	---	---	---	---	---	---	---	---	0.06
	01/30/87	---	---	0.009	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.02
	02/01/88	---	---	0.014	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.01
	01/27/89	---	---	0.012	---	---	---	---	---	<0.01	---	0.003	---	---	---	---	---	---	---	---	0.06
	01/23/90	---	---	0.010	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	0.03
	01/09/91	---	---	0.006	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.03
	01/17/92	---	---	0.015	---	---	---	---	---	0.03	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	02/14/94	---	---	0.014	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	0.01
	01/30/95	---	---	0.013	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	0.03
	02/20/98	11,200*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	14,800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/99	---	---	0.016	0.037	---	<0.01	<0.01	---	---	---	0.007	1.8	<0.0005	---	0.007	<0.005	---	---	---	---
	10/20/99	---	---	0.016	0.037	---	<0.01	<0.01	---	---	---	<0.01	2.5	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	0.011	0.043	---	0.008	<0.01	---	---	---	<0.02	1.3	<0.0005	---	0.012	<0.005	---	---	---	---
(dup-1)	01/27/00	---	---	0.008	0.051	---	0.005	<0.01	---	---	---	0.02	2.4	<0.0005	---	<0.01	<0.005	---	---	---	---
	04/25/00	14,870	---	0.016	0.043	---	<0.005	<0.01	---	---	---	0.009	1.8	<0.0005	---	<0.01	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.7	---	<0.05	<0.01	---	<0.002	<0.05	0.065	0.18
	07/28/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.8	---	<0.05	0.015	---	<0.002	<0.05	0.063	0.073
	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	3.1	---	<0.05	0.015	---	<0.002	<0.05	0.066	0.12
	12/11/00	---	---	0.016	<0.05	---	<0.01	<0.01	---	---	---	<0.02	2.3	<0.0005	---	<0.01	<0.01	---	---	---	---
	06/14/01	---	---	0.016	<0.05	---	<0.01	0.028	---	---	---	<0.02	1.4	<0.0005	---	0.012	<0.005	---	---	---	---
	12/12/01	---	---	0.015	0.036	---	<0.01	<0.01	---	---	---	<0.01	1.6	<0.0005	---	<0.01	<0.005	---	---	---	---
MW-10	04/29/99	9,238	---	0.026	0.55	---	0.018	0.08	---	---	---	0.11	1.9	0.00058	---	0.25	<0.005	---	---	---	---
	07/23/99	---	---	0.016	0.15	---	<0.01	0.028	---	---	---	0.03	1.2	<0.0005	---	0.16	<0.005	---	---	---	---
	10/20/99	---	---	0.025	0.074	---	<0.01	<0.01	---	---	---	0.013	6.6	0.00057	---	0.049	<0.005	---	---	---	---
	01/27/00	---	---	0.007	0.14	---	<0.01	0.021	---	---	---	0.032	3.6	<0.0005	---	0.12	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.9	---	<0.05	0.14	---	<0.002	<0.05	<0.05	0.62
	07/28/00	---	0.087	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.0	---	<0.05	0.22	---	<0.002	<0.05	<0.05	0.11
	08/17/00	---	<0.05	---	---	<0.05	---	0.02	<0.05	<0.05	<0.004	---	0.9	---	<0.05	0.21	---	<0.002	<0.05	0.056	0.36
	12/11/00	---	---	0.013	0.078	---	<0.01	<0.01	---	---	---	<0.02	0.34	<0.0005	---	0.17	<0.01	---	---	---	---
	06/14/01	---	---	0.03	0.054	---	0.01	<0.01	---	---	---	<0.02	1.1	<0.0005	---	0.28	<0.005	---	---	---	---
	12/12/01	---	---	0.02	0.028	---	<0.01	<0.01	---	---	---	<0.01	2.3	<0.0005	---	0.045	<0.005	---	---	---	---
Background Mean (x)[a]:			0.035	0.0157	0.125	0.05	0.0065	0.0177	0.05	0.05	0.004	0.0262	2.57	0.00032	0.05	0.068	0.0025	0.002	0.05	0.05	0.240
Background Standard Deviation (S):			0.025	0.0066	0.165	0	0.0045	0.0249	0	0	0	0.0329	1.68	0.00014	0	0.089	0	0	0	0.02	0.210
Background Upper Tolerance Interval (x = KS)[b]:			0.127[d]	0.036[c]	0.62[c]	0.05[d]	0.02[c]	0.093[c]	0.05[d]	0.05[d]	0.004[d]	0.126[c]	7.6[c]	0.0007[c]	0.05[d]	0.34[c]	0.0025[c]	0.002[d]	0.05[d]	0.12[d]	1.02[d]

Table 5. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Fill/Alluvium Downgradient Wells																					
MW-2	01/30/86	---	---	0.011	---	---	---	---	---	0.01	---	0.006	---	---	---	---	---	---	---	---	0.06
	01/30/87	---	---	0.002	---	---	---	---	---	<0.01	---	0.005	---	---	---	---	---	---	---	---	0.03
	02/01/88	---	---	0.001	---	---	---	---	---	<0.01	---	0.002	---	---	---	---	---	---	---	---	0.02
	01/27/89	---	---	0.002	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	01/23/90	---	---	0.003	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	<0.01
	01/09/91	---	---	0.004	---	---	---	---	---	<0.01	---	0.006	---	---	---	---	---	---	---	---	0.02
	01/17/92	---	---	0.005	---	---	---	---	---	**0.10**	---	0.006	---	---	---	---	---	---	---	---	0.05
	02/14/94	---	---	0.004	---	---	---	---	---	<0.01	---	0.002	---	---	---	---	---	---	---	---	0.01
	01/30/95	---	---	0.004	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.01
	02/20/98	66,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/00	---	<0.05	<0.005	0.081	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	<0.02	2.9	<0.0005	<0.05	0.027	<0.01	<0.002	<0.05	<0.05	0.079
	07/28/00	---	<0.05	<0.009	0.069	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	2.6	<0.0005	<0.05	0.027	**0.02**	<0.002	<0.05	<0.05	<0.05
(dup)	07/28/00	---	<0.05	<0.009	0.072	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	2.6	<0.0005	<0.05	0.017	<0.005	**0.005**	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	<0.008	0.072	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	3.1	<0.0005	<0.05	0.024	<0.005	<0.002	<0.05	<0.05	<0.05
MW-4	01/30/86	---	---	0.009	---	---	---	---	---	0.01	---	<0.001	---	---	---	---	---	---	---	---	0.08
	01/30/87	---	---	0.003	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	02/01/88	---	---	0.003	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.01
	01/27/89	---	---	0.001	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	<0.01
	01/23/90	---	---	0.002	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	01/09/91	---	---	0.001	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.02
	01/17/92	---	---	0.009	---	---	---	---	---	**0.09**	---	0.002	---	---	---	---	---	---	---	---	0.11
	02/14/94	---	---	0.002	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	<0.01
	01/30/95	---	---	0.001	---	---	---	---	---	0.01	---	0.001	---	---	---	---	---	---	---	---	0.01
	02/20/98	57,700*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	62,200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/00	---	<0.05	<0.005	<0.05	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	<0.02	1.4	<0.0005	<0.05	0.016	<0.005	<0.002	<0.05	<0.05	0.063
(dup)	06/30/00	---	<0.05	<0.005	<0.05	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	0.02	1.4	<0.0005	<0.05	0.016	<0.005	<0.002	**0.10**	<0.05	0.061
	07/28/00	---	<0.05	<0.009	<0.05	<0.05	0.02	<0.01	<0.05	<0.05	<0.004	<0.02	1.1	<0.0005	<0.05	0.03	<0.005	**0.011**	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	<0.008	0.054	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	1.2	<0.0005	<0.05	0.022	<0.005	**0.007**	<0.05	<0.05	<0.05
MW-5	01/30/87	---	---	0.006	---	---	---	---	---	0.02	---	0.004	---	---	---	---	---	---	---	---	0.24
	02/01/88	---	---	0.011	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	**1.6**
	01/27/89	---	---	0.003	---	---	---	---	---	<0.01	---	0.002	---	---	---	---	---	---	---	---	<0.01
	01/23/90	---	---	0.021	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	**9.5**
	02/16/90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.3**
	01/09/91	---	---	0.009	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.03

Table 5. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
MW-5	01/17/92	---	---	0.004	---	---	---	---	---	**0.08**	---	<0.001	---	---	---	---	---	---	---	---	0.27
(cont.)	02/14/94	---	---	0.016	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	**6.4**
	01/30/95	---	---	0.017	---	---	---	---	---	<0.01	---	0.032	---	---	---	---	---	---	---	---	**10**
	06/30/00	---	<0.05	0.023	<0.05	<0.05	0.006	<0.01	<0.05	<0.05	<0.004	<0.02	**19**	<0.0005	<0.05	<0.01	**0.019**	<0.002	<0.05	<0.05	**6.6**
	07/28/00	---	<0.05	<0.009	<0.05	<0.05	**0.1**	<0.01	<0.05	<0.05	<0.004	<0.02	**20**	<0.0005	**0.08**	0.039	<0.005	**0.003**	<0.05	<0.05	**7.1**
	08/17/00	---	<0.05	<0.008	0.051	<0.05	**0.023**	<0.01	<0.05	<0.05	<0.004	<0.02	**12**	<0.0005	<0.05	0.03	<0.005	**0.004**	<0.05	<0.05	<0.05
MW-6	06/07/93	32,954	---	<0.02	---	---	0.005	---	---	<0.008	---	<0.02	0.48	---	<0.02	---	---	---	---	---	0.064
(dup)	06/07/93	---	---	<0.02	---	---	0.006	---	---	<0.008	---	<0.02	0.45	---	<0.02	---	---	---	---	---	0.075
	06/17/93	10,654	---	<0.02	---	---	**0.027**	---	---	0.035	---	0.028	0.5	---	<0.02	---	---	---	---	---	0.11
	06/24/93	9,717	---	<0.02	---	---	<0.008	---	---	<0.02	---	<0.02	0.8	---	<0.02	---	---	---	---	---	0.043
	02/20/98	22,000*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	32,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/29/99	---	---	<0.005	0.065	---	<0.01	<0.01	---	---	---	<0.02	0.52	<0.0005	---	<0.01	<0.005	---	---	---	---
	07/23/99	---	---	<0.005	0.024	---	<0.01	<0.01	---	---	---	<0.005	0.43	<0.0005	---	0.006	<0.005	---	---	---	---
	10/20/99	---	---	0.008	0.041	---	<0.01	<0.01	---	---	---	<0.01	0.50	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	0.11	---	<0.01	<0.01	---	---	---	0.036	0.61	<0.0005	---	<0.01	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.46	---	<0.05	0.014	---	<0.002	<0.05	<0.05	0.065
	07/28/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.46	---	<0.05	0.017	---	<0.002	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	0.43	---	<0.05	0.034	---	<0.002	<0.05	<0.05	<0.05
(dup)	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	0.44	---	<0.05	0.026	---	<0.002	<0.05	<0.05	<0.05
	12/11/00	---	---	0.012	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.27	<0.0005	---	0.023	<0.01	---	---	---	---
	06/14/01	---	---	0.008	<0.05	---	<0.01	0.013	---	---	---	<0.02	0.34	<0.0005	---	0.014	<0.005	---	---	---	---
	12/12/01	---	---	0.01	0.045	---	<0.01	<0.01	---	---	---	<0.01	0.28	<0.0005	---	<0.01	<0.005	---	---	---	---
MW-8	04/29/99	---	---	0.006	0.16	---	<0.01	<0.01	---	---	---	<0.02	0.45	<0.0005	---	0.011	<0.005	---	---	---	---
	07/23/99	---	---	0.012	0.12	---	<0.01	<0.01	---	---	---	0.006	0.27	**0.00082**	---	0.17	<0.005	---	---	---	---
	10/20/99	---	---	0.007	0.076	---	<0.01	<0.01	---	---	---	<0.01	0.48	<0.0005	---	0.13	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	0.049	---	<0.01	<0.01	---	---	---	<0.02	0.62	<0.0005	---	0.02	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.77	---	<0.05	<0.01	---	<0.002	**0.84**	<0.05	0.17
	07/28/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.48	---	<0.05	0.031	---	<0.002	<0.05	<0.05	0.059
	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	0.62	---	<0.05	0.025	---	<0.002	<0.05	<0.05	0.097
	12/11/00	---	---	<0.005	0.10	---	<0.01	<0.01	---	---	---	0.032	0.61	**0.00082**	---	<0.01	<0.01	---	---	---	---
	06/14/01	---	---	0.011	0.075	---	<0.01	<0.01	---	---	---	<0.02	0.63	<0.0005	---	0.024	<0.005	---	---	---	---
(dup)	06/14/01	---	---	0.013	0.051	---	<0.01	<0.01	---	---	---	<0.02	0.62	<0.0005	---	0.021	<0.005	---	---	---	---
	12/12/01	---	---	0.015	0.037	---	<0.01	<0.01	---	---	---	<0.01	0.14	<0.0005	---	0.28	<0.005	---	---	---	---

Table 5. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
MW-9	04/29/99	---	---	0.02	0.5	---	<0.01	0.063	---	---	---	0.053	1.8	0.00044	---	<0.01	<0.005	---	---	---	---
	07/23/99	---	---	0.015	0.039	---	<0.01	<0.01	---	---	---	<0.005	0.62	<0.0005	---	<0.005	<0.005	---	---	---	---
	10/20/99	---	---	0.017	0.029	---	<0.01	<0.01	---	---	---	<0.01	1.1	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	0.045	---	<0.01	<0.01	---	---	---	<0.02	0.56	<0.0005	---	<0.01	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.57	---	<0.05	<0.01	---	<0.002	**0.27**	0.058	0.3
	07/28/00	---	**0.18**	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.33	---	<0.05	0.02	---	<0.002	<0.05	<0.05	<0.05
	08/17/00	---	0.052	---	---	<0.05	---	0.017	<0.05	<0.05	<0.004	---	0.49	---	<0.05	0.029	---	<0.002	<0.05	0.057	0.26
	12/11/00	---	---	0.012	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.21	<0.0005	---	0.011	<0.01	---	---	---	---
(dup)	12/11/00	---	---	0.014	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.2	<0.0005	---	0.011	<0.01	---	---	---	---
	06/14/01	---	---	0.017	0.057	---	0.01	<0.01	---	---	---	<0.02	0.43	<0.0005	---	0.016	<0.005	---	---	---	---
	12/12/01	---	---	0.025	0.043	---	<0.01	<0.01	---	---	---	<0.01	0.77	<0.0005	---	<0.01	<0.005	---	---	---	---
(dup)	12/12/01	---	---	0.025	0.05	---	<0.01	<0.01	---	---	---	<0.01	0.81	<0.0005	---	<0.01	<0.005	---	---	---	---
Beaumont Formation Monitor Wells																					
MW-7	06/07/93	6,646	---	0.033	---	---	<0.003	---	---	0.008	---	<0.02	0.44	---	<0.02	---	---	---	---	---	0.026
	06/17/93	7,026	---	0.022	---	---	**0.056**	---	---	0.01	---	<0.02	0.3	---	<0.02	---	---	---	---	---	0.26
	06/24/93	7,068	---	0.02	---	---	<0.008	---	---	<0.02	---	<0.02	0.35	---	<0.02	---	---	---	---	---	0.013
(dup)	06/24/93	7,101	---	0.024	---	---	<0.008	---	---	<0.02	---	<0.02	0.38	---	<0.02	---	---	---	---	---	0.014
	02/20/98	7,680*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	8,540**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/11/01	---	<0.05	**0.044**	0.085	<0.05	<0.01	<0.1	<0.05	<0.05	<0.004	<0.02	0.16	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	**0.051**	0.062	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.17	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	**0.063**	0.07	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.019	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-11	12/11/01	---	<0.05	<0.005	0.12	**0.059**	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	**7.7**	<0.0005	<0.05	0.015	<0.005	<0.002	<0.05	<0.05	0.18
	01/16/02	---	<0.05	0.006	0.066	<0.05	<0.01	<0.01	<0.05	<0.05	**0.039**	<0.02	6.2	<0.0005	**0.053**	<0.01	<0.005	<0.002	<0.05	<0.05	0.06
	02/12/02	---	<0.05	<0.005	0.066	<0.05	<0.01	<0.01	<0.05	**0.061**	<0.004	<0.02	7.3	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-12	12/27/01	---	<0.05	0.023	0.11	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.13	<0.0005	<0.05	0.27	<0.005	<0.002	<0.05	<0.05	0.092
	01/16/02	---	<0.05	0.032	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.071	<0.0005	<0.05	**0.40**	<0.005	<0.002	<0.05	<0.05	0.062
(dup)	01/16/02	---	<0.05	0.029	0.16	<0.05	<0.01	0.01	<0.05	<0.05	<0.004	<0.02	0.21	<0.0005	<0.05	0.31	<0.005	<0.002	<0.05	0.054	0.19
	02/12/02	---	<0.05	0.035	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.064	<0.0005	<0.05	**0.38**	<0.005	<0.002	<0.05	<0.05	<0.05
MW-13	12/11/01	---	<0.05	0.006	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	**0.14**	<0.02	0.2	<0.0005	<0.05	0.28	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	0.012	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.065	<0.0005	<0.05	**0.49**	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	0.016	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.037	<0.0005	<0.05	**0.42**	<0.005	<0.002	<0.05	<0.05	<0.05
(dup)	02/12/02	---	<0.05	0.017	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.043	<0.0005	<0.05	**0.44**	<0.005	<0.002	<0.05	<0.05	<0.05

Table 5. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
MW-14	12/11/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.18	<0.0005	<0.05	0.067	<0.005	<0.002	<0.05	<0.05	0.06
	01/16/02	---	<0.05	0.009	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.077	<0.0005	<0.05	0.12	<0.005	<0.002	<0.05	<0.05	0.089
	02/12/02	---	<0.05	0.009	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.034	<0.0005	<0.05	0.11	<0.005	<0.002	<0.05	<0.05	0.053
MW-15	12/11/01	---	<0.05	0.012	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	**0.23**	<0.02	2.0	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	0.027	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	2.7	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	0.018	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	3.1	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-16	12/11/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.05	0.00056	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	0.012	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-17	12/11/01	---	<0.05	<0.005	0.11	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.17	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.081
(dup)	12/11/01	---	<0.05	0.013	0.13	<0.05	<0.01	0.01	<0.05	<0.05	<0.004	<0.02	0.83	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.084
	01/16/02	---	<0.05	0.026	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.50	<0.0005	<0.05	0.011	<0.005	<0.002	<0.05	<0.05	0.069
	02/12/02	---	<0.05	0.024	<0.05	<0.05	<0.01	0.01	<0.05	<0.05	<0.004	<0.02	0.46	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.160
MW-18	12/11/01	---	<0.05	<0.005	0.24	<0.05	<0.01	0.041	<0.05	**0.056**	<0.004	0.039	0.55	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	0.086	0.71
	01/16/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	0.064	<0.005	<0.002	<0.05	<0.05	0.36
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.021	<0.0005	<0.05	0.043	<0.005	<0.002	<0.05	<0.05	0.36
	7/19/02***	---	<0.05	0.006	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	0.037	<0.005	<0.002	<0.05	<0.05	0.42
MW-19	12/11/01	---	<0.05	<0.005	0.2	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.83	<0.0005	<0.05	0.022	<0.005	<0.002	<0.05	0.086	0.11
	01/16/02	---	<0.05	0.005	0.064	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.55	<0.0005	<0.05	0.050	<0.005	<0.002	<0.05	0.069	<0.05
	02/12/02	---	<0.05	<0.005	0.068	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.44	<0.0005	<0.05	0.032	<0.005	<0.002	<0.05	0.071	<0.05
MW-20	12/11/01	---	<0.05	<0.005	0.069	<0.05	<0.01	0.029	<0.05	<0.05	<0.004	<0.02	0.36	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	<0.005	0.056	<0.05	<0.01	0.012	<0.05	<0.05	<0.004	<0.02	0.13	<0.0005	<0.05	0.020	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	0.010	<0.05	<0.05	<0.004	<0.02	0.036	<0.0005	<0.05	0.014	<0.005	<0.002	<0.05	<0.05	<0.05
MW-21	12/11/01	---	<0.05	<0.005	0.07	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.51	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	0.062	<0.05
	01/16/02	---	<0.05	0.010	0.087	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.39	<0.0005	<0.05	0.011	<0.005	<0.002	<0.05	0.11	<0.05
	02/12/02	---	<0.05	0.011	0.084	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.24	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	0.11	<0.05

Table 5. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Field	04/29/99	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
Blank	06/30/00	---	<0.05	<0.005	<0.05	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.077
	07/28/00	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	**0.006**	<0.05	<0.05	<0.05
	12/11/00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/11/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.05	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	12/12/01	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.01	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	12/27/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	07/19/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
Trip	07/23/99	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.005	<0.015	<0.0005	---	<0.005	<0.005	---	---	---	---
Blank	10/20/99	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.01	<0.01	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.02	<0.0005	---	<0.01	<0.005	---	---	---	---
	04/25/00	---	---	<0.005	<0.01	---	<0.005	<0.01	---	---	---	<0.005	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	12/11/00	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	<0.015	<0.0005	---	<0.01	<0.01	---	---	---	---
	06/14/01	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	12/12/01	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.01	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
TNRCC RRS2 MSCs[e]																					
Adjusted GW (mg/L):			0.6	1	200		0.5	10	610	130	20	1.5	1400	0.2	200	5	51	0.2	6100	72	3100

* Sample collected with Teflon bailer from top of water column in well bore.

** Sample collected with bottom-filling Teflon bailer from base of well bore.

*** Sample collected on July 19, 2002 following a release of stormwater from a broken PVC pipe near the South Demin Tank. Stormwater flowed to the monitor well MW-18 area.

--- Not analyzed

dup Duplicate

TDS Total dissolved solids

a Non-detects were assigned a value of one-half the detection limit, except when all observations were non-detectable the detection limit was used as the constituent concentration.

b K=Tolerance factor for one-sided normal tolerance interval with 0.95 probability level (U.S. EPA, Feb. 1989)

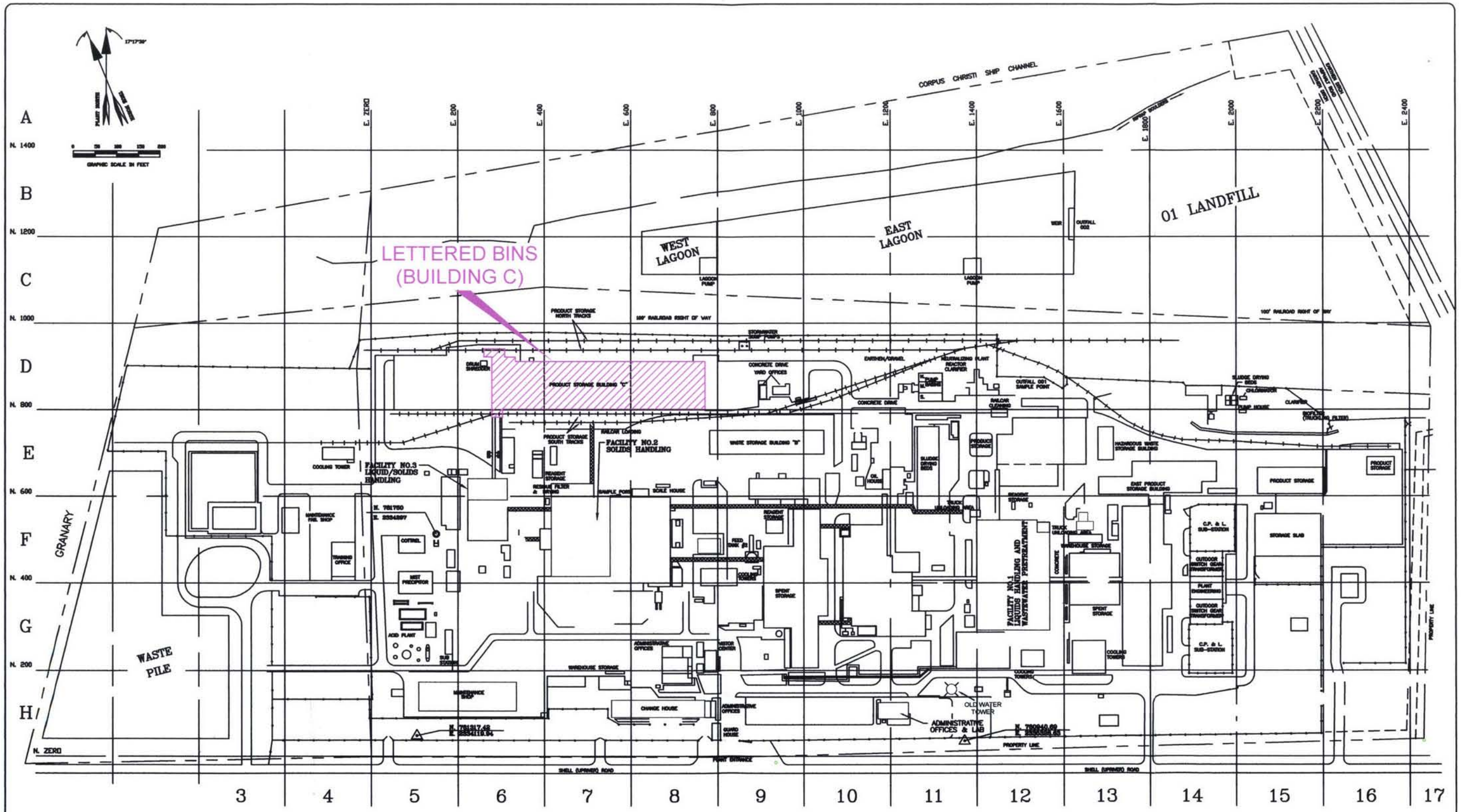
c Background data for arsenic, barium, cadmium, chromium, lead, maganese, mercury, selenium, and silver taken from monitor wells MW-3 and MW-10 during the first year of quarterly groundwater monitoring (April 1999 - April 2000) as part of the East and West Lagoons groundwater monitoring program.

d Background data for antimony, bismuth, cobalt, copper, cyanide, manganese, nickel, selenium, thallium, tin, vanadium, and zinc taken from monitor wells MW-3 and MW-10 during the RFI monthly groundwater sampling events conducted during June, July, and August 2000.

e Adjusted Risk Reduction Standard No. 2 (RRS2) medium specific concentration (MSC) for groundwater (adjusted for saline groundwater).

Note: Numbers in **bold** indicate concentrations above the background upper tolerance limit.

FIGURES



ARCADIS

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.
USE TO VERIFY FIGURE REPRODUCTION SCALE

REV. NO.	DATE	DESCRIPTION	BY	APPR.

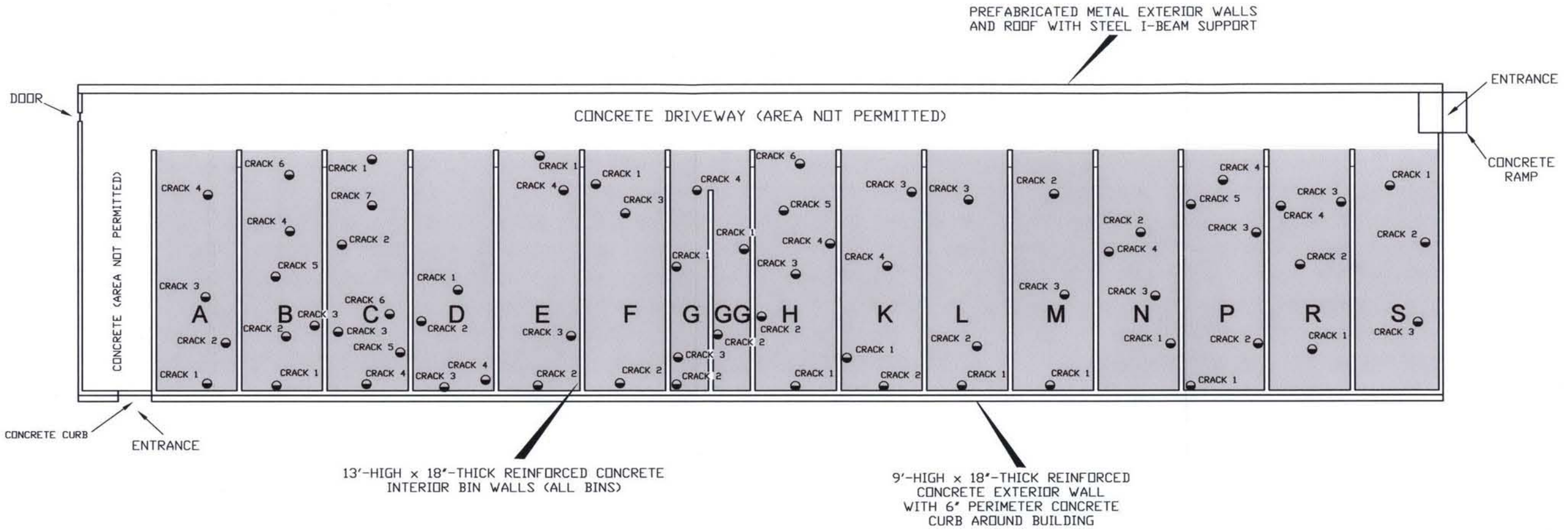
PROJECT NO.: CC000000.0001	FILE NO:
DRAWING: CENTH-SITE	PLOT SIZE: 1=1200
DRAWN BY: LAF	DATE: 10OCT2000
CHECKED BY: S. HANEY	DATE:
APPROVED BY: S. HANEY	DATE:

SITE MAP

ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE
1

DWG DATE: 07OCT04 | PRJCT NO.: | FILE: | DRAWING: LETTER BINS-CHECKED: K. BRANDNER | APPROVED: K. BRANDNER | DRAFTER: LGF



LEGEND

CONTAINER STORAGE AREA

SOIL BORING BELOW CRACK IN CONCRETE (SEPTEMBER 2004)

N

0 40'

ARCADIS

LETTERED BINS (BUILDING C) PLAN VIEW

ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE
2

LEGEND

- MONITOR WELL LOCATION
- 6.08' WATER LEVEL ELEVATION (feet NGVD)
- GROUNDWATER FLOW DIRECTION
- PROPERTY BOUNDARY

NOTE: GEOLOGIC UNITS TAKEN FROM "GEOLOGIC ATLAS OF TEXAS, CORPUS CHRISTI SHEET", 1975.

GRAPHIC SCALE IN FEET

LETTERED BINS (BUILDING C)

CORPUS CHRISTI SHIP CHANNEL

01 LANDFILL

FILL / ALLUVIUM

BEAUMONT FORMATION

WEST LAGOON

EAST LAGOON

AREA EXCAVATED FOLLOWING NOV. 6, 1992 ADMINISTRATIVE ORDER

PRODUCTS STORAGE BUILDING "C"

FORMER 3-SIDED BIN

AREA EXCAVATED FOLLOWING NOV. 6, 1992 ADMINISTRATIVE ORDER

RAILROAD TRACKS AREA

BONE YARD

FACILITY NO.3 LIQUID/SOLIDS HANDLING

FACILITY NO.2 SOLIDS HANDLING

WASTE PILE

GRAIN ELEVATOR

NORTH DEMIN TANK FACILITY NO.1

SOUTH DEMIN TANK

CELL HOUSE

ADMINISTRATIVE OFFICES & LAB

MW-1 2.93'
MW-2 1.16'
MW-3 6.70'
MW-4 0.88'
MW-5 1.17'
MW-6 2.16'
MW-7 5.90'
MW-8 2.21'
MW-9 1.91'
MW-10 6.08'
MW-11 2.93'
MW-12 3.23'
MW-13 8.01'
MW-14 7.09'
MW-15 4.67'
MW-16 6.74'
MW-17 6.29'
MW-18 6.44'
MW-19 6.68'
MW-20 6.82'
MW-21 6.79'

2' 3' 4' 5' 6' 7'

SCALE VERIFICATION	REV. NO.	DATE	DESCRIPTION	BY	APPR.
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE					

PROJECT NO.: CC000048.0002		FILE NO:	
DRAWING: VT02-02		PLOT SIZE: 1=1320	
DRAFTED BY:		DATE: 09/04/02	
CHECKED BY:		DATE:	
APPROVED BY:		DATE:	

WATER TABLE MAP FEBRUARY 11, 2002

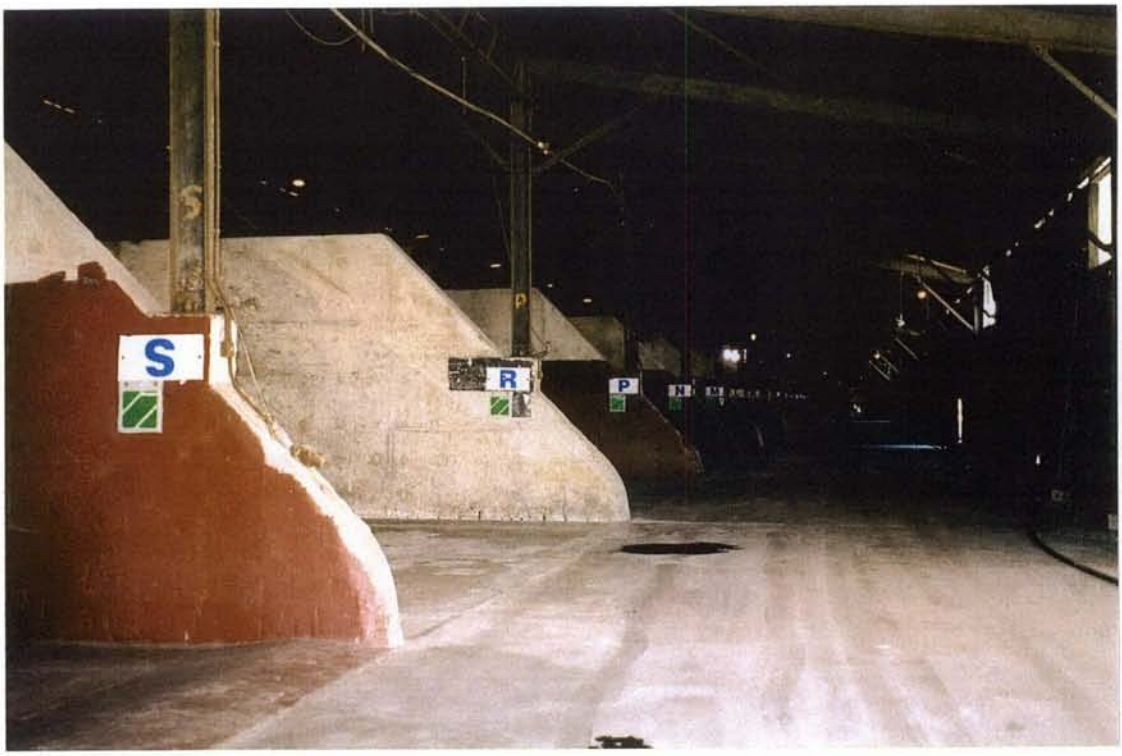
ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE 3

APPENDIX A

Appendix A

Site Photographs

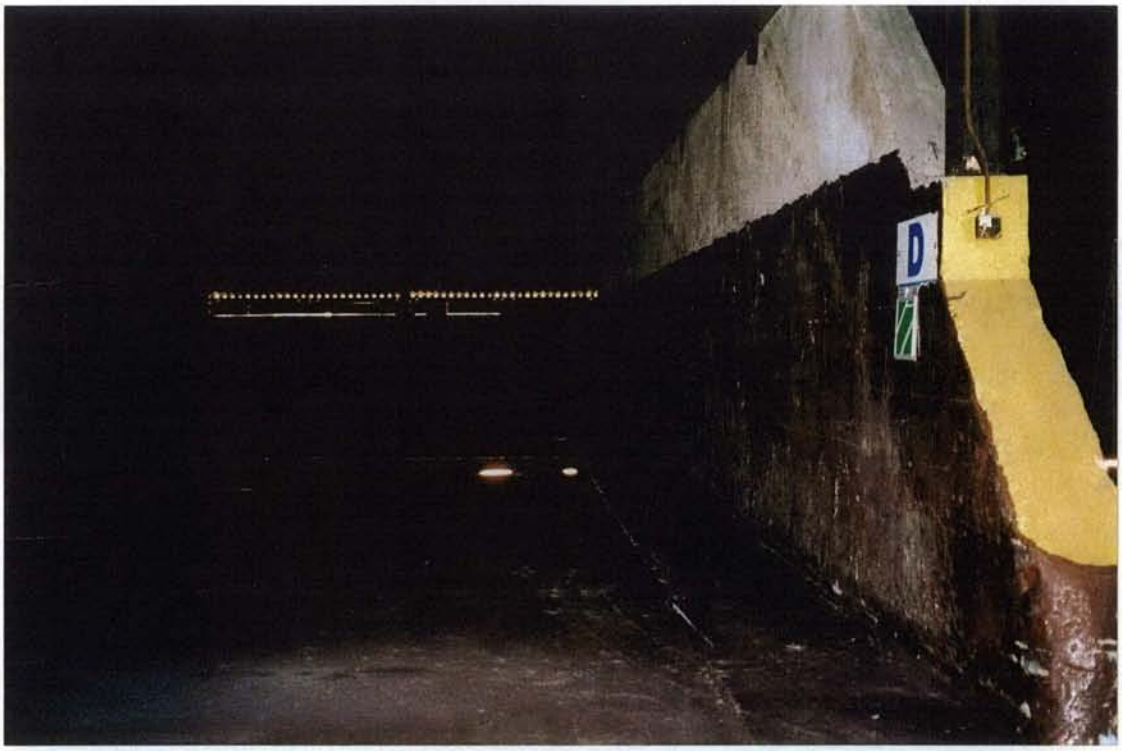


Photograph No. 1. Lettered Bins Building, view facing west from north end of Bin S.
Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 2. Lettered Bins Building, view facing west from north end of Bin N.
Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 3. Bin A, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 4. Bins B and C, view facing southwest from north end of Bin C. Photograph taken by K. Brandner, October 13, 2004.



Photograph No. 5. Bin D, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 6. Bin E, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 7. Bin F, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 8. Bin G, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 9. Bin GG, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 10. Bin H, view facing south. Photograph taken by K. Brandner, October 13, 2004.

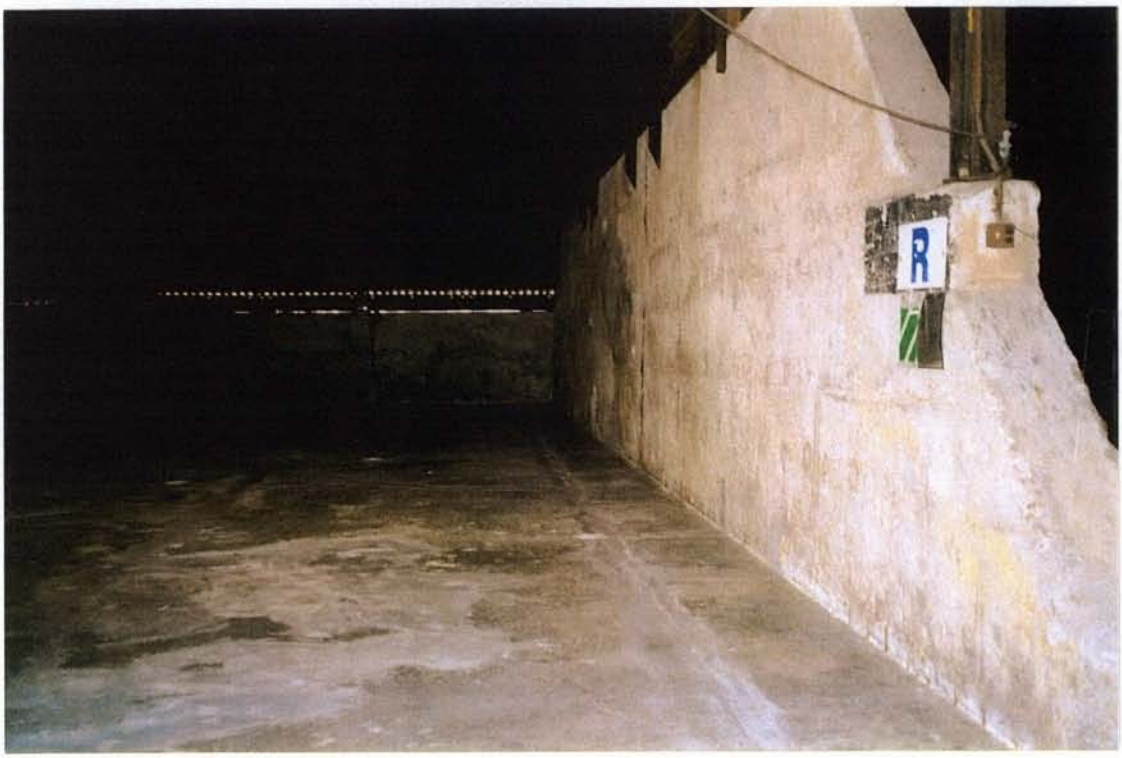
Photograph No. 11. Bin K, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 12. Bin L, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 13. Bin M, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 14. Bin N, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 15. Bin P, view facing south. Photograph taken by K. Brandner, October 13, 2004.



Photograph No. 16. Bin R, view facing south. Photograph taken by K. Brandner, October 13, 2004.

Photograph No. 17. Bin S, view facing south. Photograph taken by K. Brandner, October 13, 2004.

APPENDIX B

Appendix B

Unit Descriptions

CONSENT DECREE REF. No.[1]	FAC. No.	ENCYCLE NAME	EQUIPMENT No.	HISTORIC USE	TRANSITIONAL DECON	FINAL CLOSURE
F-18	2	Vacuum Belt Filter	225040	Not In Use	Y	Y
F-19	3	Drum Filter	235027	Drum Filter	Y	Y
F-20	3	Drum Filter	235028	Drum Filter	Y	Y
LB-1		Bin A		Baghouse & NH Lead	Y	Y
LB-2		Bin B		GM O'Size Feed	Y	Y
LB-3		Bin C		HW Zinc Hydroxide	Y	Y
LB-4		Bin D		Baghouse Dust	Y	Y
LB-5		Bin E		Nickel & HW Copper	Y	Y
LB-6		Bin F		GM Product	Y	Y
LB-7		Bin G		HW Chrome	Y	Y
LB-8		Bin GG		HW Nickel/Chrome	Y	Y
LB-9		Bin H		GM Feed	Y	Y
LB-10		Bin K		HW Lead Sulfate	Y	Y
LB-11		Bin L		GM Product	Y	Y
LB-12		Bin M		HW Zinc Hydroxide	Y	Y
LB-13		Bin N		Baghouse Dust	Y	Y
LB-14		Bin P		GM Product	Y	Y
LB-15		Bin R		HW Lead Sulfate	Y	Y
LB-16		Bin S		GM Feed	Y	Y
NB-1		Bin 1		Nickel "B"	Y	Y
NB-2		Bin 2		Nickel "A"	Y	Y
NB-3		Bin 3		Iron Reagent	Y	Y
NB-4		Bin 4		HW Copper	Y	Y
NB-5		Bin 5		NH Copper	Y	Y
NB-6		Bin 6		HW Copper	Y	Y
NB-7		Bin 11		HW Precious	Y	Y
NB-8		Bin 12		Tin & Nickel	Y	Y
D-1	2		# 1	Wastewater sludge and Nickel "A" Drying	Y[2]	Y

[1] Quick reference numbers for Consent Decree purposes
T - Tank
F - Filtration Equipment

APPENDIX C

Appendix C

Constituents of Concern

Table 2. Constituents of Concern, Encycle/Texas, Inc., Corpus Christi, Texas

Constituent
Antimony
Arsenic
Barium
Bismuth
Cadmium
Chromium
Cobalt
Copper
Cyanide
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc

APPENDIX D

Appendix D

Laboratory Reports – Rinse Water Samples

SEVERN TRENT STL

RECEIVED
MAY 20 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224615

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/18/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

5/18/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 36

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/18/2004

Job Number.: 224615
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224615-1	BIN A	Water	05/05/2004	16:20	05/05/2004	16:41
224615-2	FIELD BLANK	Water	05/05/2004	16:30	05/05/2004	16:41

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224615 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN A
Date Sampled.....: 05/05/2004
Time Sampled.....: 16:20
Sample Matrix.....: Water

Laboratory Sample ID: 224615-1
Date Received.....: 05/05/2004
Time Received.....: 16:41

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	05/06/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/07/04	dev
SW-846 6010B	Arsenic (As), Total	0.04	0.01	mg/L	05/06/04	edr
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	05/10/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Cobalt (Co), Total	0.02	0.01	mg/L	05/06/04	edr
SW-846 6010B	Copper (Cu), Total	1.37	0.01	mg/L	05/06/04	edr
SW-846 6010B	Lead (Pb), Total	1.38	0.01	mg/L	05/06/04	edr
SW-846 6010B	Manganese (Mn), Total	0.06	0.01	mg/L	05/06/04	edr
SW-846 6010B	Nickel (Ni), Total	5.16	0.01	mg/L	05/06/04	edr
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	05/10/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	05/06/04	edr
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Zinc (Zn), Total	3.36	0.01	mg/L	05/06/04	edr
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			05/06/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224615 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: FIELD BLANK
Date Sampled.....: 05/05/2004
Time Sampled.....: 16:30
Sample Matrix.....: Water

Laboratory Sample ID: 224615-2
Date Received.....: 05/05/2004
Time Received.....: 16:41

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	05/06/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/07/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Barium (Ba), Total	<0.01	0.01	mg/L	05/10/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Copper (Cu), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Lead (Pb), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Manganese (Mn), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Nickel (Ni), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	05/10/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	05/06/04	edr
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 6010B	Zinc (Zn), Total	<0.01	0.01	mg/L	05/06/04	edr
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			05/06/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 93388 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M050604HG	0.00532		0.00500		106.4	%	90-110	05/06/2004	1428
ICB			-0.000196							05/06/2004	1430
LCS		M050604LG	0.00483		0.0050		96.6	%	85-115	05/06/2004	1434
MB			-0.000177							05/06/2004	1436
MS	224580-2	M050604HG	0.00571		0.00500	0.000157	111.1	%	75-125	05/06/2004	1444
MSD	224580-2	M050604HG	0.00578	0.00571	0.00500	0.000157	112.5	%	75-125	05/06/2004	1446
							1.2	R	20		
CCV		M050604HG	0.00504		0.00500		100.8	%	80-120	05/06/2004	1457
CCB			-0.000101							05/06/2004	1502
MS	224585-1	M050604HG	0.00566		0.00500	-0.000209	117.4	%	75-125	05/06/2004	1513
MSD	224585-1	M050604HG	0.00570	0.00566	0.00500	-0.000209	118.2	%	75-125	05/06/2004	1515
							0.7	R	20		
CCV		M050604HG	0.00499		0.00500		99.8	%	80-120	05/06/2004	1521
CCB			-0.000087							05/06/2004	1524

Test Method.....: EPA 9010B/9012A Batch.....: 93440 Analyst...: dev
Method Description.: Cyanide (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		050704	-0.0014							05/07/2004	1515
CCV		CN040507E	0.4078		0.4000		102.0	%	90-110	05/07/2004	1518
MB		050704	0.0006							05/07/2004	1520
LCS		CN040507P	0.0478		0.05000		95.6	%	76-117	05/07/2004	1522
LCS		CN040507Q	0.0910		0.1000		91.0	%	76-117	05/07/2004	1525
LCS		CN040507R	0.1840		0.2000		92.0	%	76-117	05/07/2004	1527
MS	224572-1	CN040507S	0.0541		0.05000	0.0057	96.8	%	75-125	05/07/2004	1535
MSD	224572-1	CN040507S	0.0552	0.0541	0.05000	0.0057	99.0	%	75-125	05/07/2004	1537
							2.0	R	20		
CCB		050704	-0.0017							05/07/2004	1557
CCV		CN040507E	0.4045		0.4000		101.1	%	90-110	05/07/2004	1600

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04532490		2.00		102.3	%	90-110	05/06/2004	1339
ICV		M0380	0.98191479		1.00		98.2	%	90-110	05/06/2004	1408
ICV		M0380	0.96140887		1.00		96.1	%	90-110	05/06/2004	1436
ICB			-0.0044239							05/06/2004	1459
CCB			-0.0045485							05/06/2004	1505
CCB			-0.0039442							05/06/2004	1541
MB		3010.	-0.0035068							05/06/2004	1628
CCV		M0388	1.02457780		1.00		102.5	%	90-110	05/06/2004	1632
CCB			-0.0000084							05/06/2004	1645
LCS		M351	0.50258886		0.500		100.5	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.50880887		0.500	0.00243018	101.3	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.52358524	0.50880887	0.500	0.00243018	104.2	%	75-125	05/06/2004	1709
							2.9	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.02847349		1.00		102.8	%	90-110	05/06/2004	1738
CCB			-0.0019122							05/06/2004	1751
CCV		M0388	1.01068727		1.00		101.1	%	90-110	05/06/2004	1836
CCB			-0.0015213							05/06/2004	1850

Test Method.....: SW-846 6010B Batch.....: 93513 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96271327		2.00		98.1	%	90-110	05/10/2004	1346
ICV		M0369	0.94626221		1.00		94.6	%	90-110	05/10/2004	1405
ICB			-0.0008719							05/10/2004	1433
CCB			-0.0008829							05/10/2004	1454
CCV		M0388	1.04309129		1.00		104.3	%	90-110	05/10/2004	1504
CCB			-0.0008620							05/10/2004	1517
MB		3010	-0.0008817							05/10/2004	1520
LCS		M351	0.49030041		0.500		98.1	%	80-120	05/10/2004	1527
MS	224616-1	M351	0.58141770		0.500	0.08742189	98.8	%	75-125	05/10/2004	1549
MSD	224616-1	M351	0.57067795	0.58141770	0.500	0.08742189	96.7	%	75-125	05/10/2004	1555
							1.9	R	20		
CCV		M0388	1.05833720		1.00		105.8	%	90-110	05/10/2004	1607
CCB			-0.0007702							05/10/2004	1620
CCV		M0388	1.06352960		1.00		106.4	%	90-110	05/10/2004	1658
CCB			-0.0008626							05/10/2004	1711
MB		3010	-0.0009360							05/10/2004	1735
LCS		M351	0.49428761		0.500		98.9	%	80-120	05/10/2004	1742
CCV		M0388	1.02702668		1.00		102.7	%	90-110	05/10/2004	1754
CCB			-0.0008026							05/10/2004	1807
MS	224596-2	M351	0.59579887		0.500	0.11917023	95.3	%	75-125	05/10/2004	1814
MSD	224596-2	M351	0.59604893	0.59579887	0.500	0.11917023	95.4	%	75-125	05/10/2004	1819
							0.0	R	20		
CCV		M0388	1.02643190		1.00		102.6	%	90-110	05/10/2004	1853
CCB			-0.0008245							05/10/2004	1907
MB		3010	-0.0009955							05/10/2004	1910
LCS		M351	0.49278774		0.500		98.6	%	80-120	05/10/2004	1917
MS	224620-1	M351	0.51316954		0.500	0.03926983	94.8	%	75-125	05/10/2004	1942
MSD	224620-1	M351	0.50883767	0.51316954	0.500	0.03926983	93.9	%	75-125	05/10/2004	1947
							0.8	R	20		
CCV		M0388	1.01273670		1.00		101.3	%	90-110	05/10/2004	1952
CCB			-0.0008069							05/10/2004	2006
CCV		M0388	1.00782385		1.00		100.8	%	90-110	05/10/2004	2044
CCB			-0.0008670							05/10/2004	2057
MB		3010	-0.0011171							05/10/2004	2110
LCS		M351	0.48082295		0.500		96.2	%	80-120	05/10/2004	2117
MS	224651-1	M351	0.75978546		0.500	0.29551286	92.9	%	75-125	05/10/2004	2135
CCV		M0388	1.00778682		1.00		100.8	%	90-110	05/10/2004	2141
CCB			-0.0008057							05/10/2004	2154
MSD	224651-1	M351	0.78626328	0.75978546	0.500	0.29551286	98.2	%	75-125	05/10/2004	2158
							3.4	R	20		
CCV		M0388	1.00541897		1.00		100.5	%	90-110	05/10/2004	2236

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93513 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0009892							05/10/2004	2250
MB		3010	-0.0008170							05/10/2004	2323
CCV		M0388	1.01247319		1.00		101.2	%	90-110	05/10/2004	2327
CCB			-0.0007379							05/10/2004	2340
LCS		M351	0.48569166		0.500		97.1	%	80-120	05/10/2004	2347
MS	224657-1	M351	0.52169853		0.500	0.03116173	98.1	%	75-125	05/11/2004	0002
MSD	224657-1	M351	0.50760990	0.52169853	0.500	0.03116173	95.3	%	75-125	05/11/2004	0007
							2.7	R	20		
CCV		M0388	1.01630474		1.00		101.6	%	90-110	05/11/2004	0027
CCB			-0.0009087							05/11/2004	0041
CCV		M0388	1.00867014		1.00		100.9	%	90-110	05/11/2004	0126
CCB			-0.0009295							05/11/2004	0137
CCV		M0388	1.03039043		1.00		103.0	%	90-110	05/11/2004	0922
CCB			-0.0006877							05/11/2004	0936
MB		3051	-0.0010330							05/11/2004	0949
LCS		M351	0.51396333		0.500		102.8	%	80-120	05/11/2004	0956
MS	224587-2	M351	0.49774372		0.500	0.00260546	99.0	%	75-125	05/11/2004	1010
MSD	224587-2	M351	0.50435492	0.49774372	0.500	0.00260546	100.3	%	75-125	05/11/2004	1016
							1.3	R	20		
CCV		M0388	1.03459216		1.00		103.5	%	90-110	05/11/2004	1027
CCB			-0.0009968							05/11/2004	1041

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.01722197		2.00		100.9	%	90-110	05/06/2004	1339
ICV		M0380	0.98393419		1.00		98.4	%	90-110	05/06/2004	1408
ICV		M0380	0.95838276		1.00		95.8	%	90-110	05/06/2004	1436
ICB			-0.0012052							05/06/2004	1459
CCB			-0.0012767							05/06/2004	1505
ICV		M368B	0.49480488		0.500		99.0	%	90-110	05/06/2004	1522
CCB			-0.0010306							05/06/2004	1541
MB		3010.	-0.0011892							05/06/2004	1628
CCV		M0388	1.03162132		1.00		103.2	%	90-110	05/06/2004	1632
CCB			-0.0009855							05/06/2004	1645
LCS		M351	0.50530929		0.500		101.1	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.48414374		0.500	0.00008444	96.8	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.50985688	0.48414374	0.500	0.00008444	102.0	%	75-125	05/06/2004	1709
							5.2	R	20		
CCV		M0388	1.02112823		1.00		102.1	%	90-110	05/06/2004	1738
CCB			-0.0011087							05/06/2004	1751
CCV		M0388	0.99932363		1.00		99.9	%	90-110	05/06/2004	1836
CCB			-0.0007661							05/06/2004	1850

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04994569		2.00		102.5	%	90-110	05/06/2004	1339
ICV		M0380	1.04911125		1.00		104.9	%	90-110	05/06/2004	1408
ICV		M0380	1.01852972		1.00		101.9	%	90-110	05/06/2004	1436
ICB			-0.0007936							05/06/2004	1459
CCB			-0.0013308							05/06/2004	1505
CCB			-0.0011713							05/06/2004	1541
MB		3010.	-0.0012558							05/06/2004	1628
CCV		M0388	1.04337226		1.00		104.3	%	90-110	05/06/2004	1632
CCB			-0.0008550							05/06/2004	1645
LCS		M351	0.51271006		0.500		102.5	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.47368728		0.500	-0.0015285	95.0	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.49018772	0.47368728	0.500	-0.0015285	98.3	%	75-125	05/06/2004	1709
							3.4	R	20		
CCV		M0388	1.02444571		1.00		102.4	%	90-110	05/06/2004	1738
CCB			-0.0014597							05/06/2004	1751
CCV		M0388	1.01339851		1.00		101.3	%	90-110	05/06/2004	1836
CCB			-0.0007324							05/06/2004	1850

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.00534457		2.00		100.3	%	90-110	05/06/2004	1339
ICV		M0380	1.02223384		1.00		102.2	%	90-110	05/06/2004	1408
ICV		M0380	1.00213582		1.00		100.2	%	90-110	05/06/2004	1436
ICB			-0.0003488							05/06/2004	1459
CCB			-0.0000177							05/06/2004	1505
ICV		M368B	0.50973570		0.500		101.9	%	90-110	05/06/2004	1522
CCB			-0.0006546							05/06/2004	1541
MB		3010.	-0.0018409							05/06/2004	1628
CCV		M0388	1.04804841		1.00		104.8	%	90-110	05/06/2004	1632
CCB			-0.0017190							05/06/2004	1645
LCS		M351	0.53036087		0.500		106.1	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.52350772		0.500	0.01190794	102.3	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.54706080	0.52350772	0.500	0.01190794	107.0	%	75-125	05/06/2004	1709
							4.4	R	20		
CCV		M0388	1.03507036		1.00		103.5	%	90-110	05/06/2004	1738
CCB			-0.0024800							05/06/2004	1751
CCV		M0388	1.06080428		1.00		106.1	%	90-110	05/06/2004	1836
CCB			-0.0022020							05/06/2004	1850

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04521145		2.00		102.3	%	90-110	05/06/2004	1339
ICV		M0380	1.00755434		1.00		100.8	%	90-110	05/06/2004	1408
ICV		M0380	0.98224834		1.00		98.2	%	90-110	05/06/2004	1436
ICB			-0.0011221							05/06/2004	1459
CCB			-0.0008129							05/06/2004	1505
ICV		M368B	0.50708260		0.500		101.4	%	90-110	05/06/2004	1522
CCB			-0.0010659							05/06/2004	1541
MB		3010.	-0.0001632							05/06/2004	1628
CCV		M0388	1.03265731		1.00		103.3	%	90-110	05/06/2004	1632
CCB			-0.0008893							05/06/2004	1645
LCS		M351	0.50914328		0.500		101.8	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.48228092		0.500	0.00148156	96.2	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.50154357	0.48228092	0.500	0.00148156	100.0	%	75-125	05/06/2004	1709
							3.9	R	20		
CCV		M0388	1.03440316		1.00		103.4	%	90-110	05/06/2004	1738
CCB			0.00070595							05/06/2004	1751
CCV		M0388	1.01744914		1.00		101.7	%	90-110	05/06/2004	1836
CCB			-0.0013303							05/06/2004	1850

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.01853256		2.00		100.9	%	90-110	05/06/2004	1339
ICV		M0380	0.96992053		1.00		97.0	%	90-110	05/06/2004	1408
ICV		M0380	0.94146407		1.00		94.1	%	90-110	05/06/2004	1436
ICB			-0.0009455							05/06/2004	1459
CCB			-0.0009410							05/06/2004	1505
CCB			-0.0009175							05/06/2004	1541
MB		3010.	-0.0009379							05/06/2004	1628
CCV		M0388	1.03591926		1.00		103.6	%	90-110	05/06/2004	1632
CCB			-0.0008831							05/06/2004	1645
LCS		M351	0.50911153		0.500		101.8	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.48501541		0.500	0.00352658	96.3	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.50717890	0.48501541	0.500	0.00352658	100.7	%	75-125	05/06/2004	1709
							4.5	R	20		
CCV		M0388	1.02172572		1.00		102.2	%	90-110	05/06/2004	1738
CCB			-0.0008649							05/06/2004	1751
CCV		M0388	0.99807212		1.00		99.8	%	90-110	05/06/2004	1836
CCB			-0.0007236							05/06/2004	1850

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.03016338		2.00		101.5	%	90-110	05/06/2004	1339
ICV		M0380	1.00955943		1.00		101.0	%	90-110	05/06/2004	1408
ICV		M0380	0.98403013		1.00		98.4	%	90-110	05/06/2004	1436
ICB			-0.0011392							05/06/2004	1459
CCB			-0.0015334							05/06/2004	1505
ICV		M368B	0.50307950		0.500		100.6	%	90-110	05/06/2004	1522
CCB			-0.0011431							05/06/2004	1541
MB		3010.	-0.0010570							05/06/2004	1628
CCV		M0388	1.04064678		1.00		104.1	%	90-110	05/06/2004	1632
CCB			-0.0010330							05/06/2004	1645
LCS		M351	0.50990212		0.500		102.0	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.47273743		0.500	0.00644785	93.3	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.48904158	0.47273743	0.500	0.00644785	96.5	%	75-125	05/06/2004	1709
							3.4	R	20		
CCV		M0388	1.03074616		1.00		103.1	%	90-110	05/06/2004	1738
CCB			-0.0010411							05/06/2004	1751
CCV		M0388	1.01251656		1.00		101.3	%	90-110	05/06/2004	1836
CCB			-0.0003639							05/06/2004	1850

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04625520		2.00		102.3	%	90-110	05/06/2004	1339
ICV		M0380	0.99525066		1.00		99.5	%	90-110	05/06/2004	1408
ICV		M0380	0.97445889		1.00		97.4	%	90-110	05/06/2004	1436
ICB			0.00437705							05/06/2004	1459
CCB			0.00372364							05/06/2004	1505
ICV		M368B	0.51723473		0.500		103.4	%	90-110	05/06/2004	1522
CCB			0.00708142							05/06/2004	1541
MB		3010.	0.00647985							05/06/2004	1628
CCV		M0388	1.02907730		1.00		102.9	%	90-110	05/06/2004	1632
CCB			0.00344317							05/06/2004	1645
LCS		M351	0.48683366		0.500		97.4	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.49845986		0.500	0.02364744	95.0	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.51905505	0.49845986	0.500	0.02364744	99.1	%	75-125	05/06/2004	1709
							4.0	R	20		
CCV		M0388	1.02755107		1.00		102.8	%	90-110	05/06/2004	1738
CCB			-0.0027363							05/06/2004	1751
CCV		M0388	1.01154004		1.00		101.2	%	90-110	05/06/2004	1836
CCB			0.00329774							05/06/2004	1847

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93513 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	0.98491532		1.0		98.5	%	90-110	05/10/2004	1346
ICV		M0369	0.95950692		1.00		96.0	%	90-110	05/10/2004	1405
ICB			-0.0014738							05/10/2004	1433
CCB			-0.0002861							05/10/2004	1454
CCV		M0388	0.51971972		0.50		103.9	%	90-110	05/10/2004	1504
CCB			-0.0011134							05/10/2004	1517
MB		3010	-0.0000630							05/10/2004	1520
LCS		M351	0.24314400		0.25		97.3	%	80-120	05/10/2004	1527
MS	224616-1	M351	0.07996182		0.25	-0.0015973	32.6	%	75-125	05/10/2004	1549
MSD	224616-1	M351	0.07942782	0.07996182	0.25	-0.0015973	32.4	%	75-125	05/10/2004	1555
							0.7	R	20		
CCV		M0388	0.52626365		0.50		105.3	%	90-110	05/10/2004	1607
CCB			-0.0001214							05/10/2004	1620
CCV		M0388	0.52948981		0.50		105.9	%	90-110	05/10/2004	1658
CCB			-0.0008288							05/10/2004	1711
MB		3010	-0.0013054							05/10/2004	1735
LCS		M351	0.24416791		0.25		97.7	%	80-120	05/10/2004	1742
CCV		M0388	0.51145799		0.50		102.3	%	90-110	05/10/2004	1754
CCB			-0.0001948							05/10/2004	1807
MS	224596-2	M351	0.07597821		0.25	-0.0018852	31.1	%	75-125	05/10/2004	1814
MSD	224596-2	M351	0.07682098	0.07597821	0.25	-0.0018852	31.5	%	75-125	05/10/2004	1819
							1.1	R	20		
CCV		M0388	0.51081888		0.50		102.2	%	90-110	05/10/2004	1853
CCB			-0.0012592							05/10/2004	1907
MB		3010	-0.0014151							05/10/2004	1910
LCS		M351	0.24424210		0.25		97.7	%	80-120	05/10/2004	1917
MS	224620-1	M351	0.14957975		0.25	-0.0012379	60.3	%	75-125	05/10/2004	1942
MSD	224620-1	M351	0.14784589	0.14957975	0.25	-0.0012379	59.6	%	75-125	05/10/2004	1947
							1.2	R	20		
CCV		M0388	0.50687066		0.50		101.4	%	90-110	05/10/2004	1952
CCB			-0.0017718							05/10/2004	2006
CCV		M0388	0.50523019		0.50		101.0	%	90-110	05/10/2004	2044
CCB			-0.0003998							05/10/2004	2057
MB		3010	-0.0013563							05/10/2004	2110
LCS		M351	0.23931162		0.25		95.7	%	80-120	05/10/2004	2117
MS	224651-1	M351	0.21874863		0.25	-0.0017078	88.2	%	75-125	05/10/2004	2135
CCV		M0388	0.50833462		0.50		101.7	%	90-110	05/10/2004	2141
CCB			-0.0001137							05/10/2004	2154
MSD	224651-1	M351	0.22921199	0.21874863	0.25	-0.0017078	92.4	%	75-125	05/10/2004	2158
							4.7	R	20		
CCV		M0388	0.50834669		0.50		101.7	%	90-110	05/10/2004	2236
CCB			-0.0011053							05/10/2004	2250
MB		3010	-0.0008611							05/10/2004	2323
CCV		M0388	0.51152768		0.50		102.3	%	90-110	05/10/2004	2327
CCB			-0.0003422							05/10/2004	2340
LCS		M351	0.24192156		0.25		96.8	%	80-120	05/10/2004	2347
MS	224657-1	M351	0.23242412		0.25	-0.0012464	93.5	%	75-125	05/11/2004	0002
MSD	224657-1	M351	0.23605120	0.23242412	0.25	-0.0012464	94.9	%	75-125	05/11/2004	0007
							1.5	R	20		
CCV		M0388	0.51332461		0.50		102.7	%	90-110	05/11/2004	0027
CCB			-0.0009324							05/11/2004	0041
CCV		M0388	0.51050261		0.50		102.1	%	90-110	05/11/2004	0126
CCB			-0.0014806							05/11/2004	0137

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93513 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.50125277		0.50		100.3	%	90-110	05/11/2004	0922
CCB			-0.0020997							05/11/2004	0936
MB		3051	-0.0009173							05/11/2004	0949
LCS		M351	0.24809542		0.25		99.2	%	80-120	05/11/2004	0956
MS	224587-2	M351	0.24146366		0.25	-0.0016485	97.2	%	75-125	05/11/2004	1010
MSD	224587-2	M351	0.24606784	0.24146366	0.25	-0.0016485	99.1	%	75-125	05/11/2004	1016
							1.9	R	20		
CCV		M0388	0.51270926		0.50		102.5	%	90-110	05/11/2004	1027
CCB			-0.0009853							05/11/2004	1041

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.99844554		2.00		99.9	%	90-110	05/06/2004	1342
ICV		M0374	0.94751199		1.00		94.8	%	90-110	05/06/2004	1423
ICB			-0.0018334							05/06/2004	1459
CCB			-0.0078658							05/06/2004	1505
CCB			-0.0054521							05/06/2004	1541
MB		3010.	-0.0086739							05/06/2004	1628
CCV		M0388	1.97974079		2.00		99.0	%	90-110	05/06/2004	1632
CCB			-0.0056546							05/06/2004	1645
LCS		M351	0.98078034		1.00		98.1	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.91878171		1.00	-0.0301231	94.9	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.97934977	0.91878171	1.00	-0.0301231	100.9	%	75-125	05/06/2004	1709
							6.4	R	20		
CCV		M0388	1.97073877		2.00		98.5	%	90-110	05/06/2004	1738
CCB			-0.0058746							05/06/2004	1751
CCV		M0388	1.92758337		2.00		96.4	%	90-110	05/06/2004	1836
CCB			-0.0080890							05/06/2004	1850

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.00713058		2.00		100.4	%	90-110	05/06/2004	1339
ICV		M0380	0.97800710		1.00		97.8	%	90-110	05/06/2004	1408
ICV		M0380	0.95289922		1.00		95.3	%	90-110	05/06/2004	1436
ICB			-0.0009226							05/06/2004	1459
CCB			-0.0012102							05/06/2004	1505
ICV		M368B	0.49344066		0.500		98.7	%	90-110	05/06/2004	1522
CCB			-0.0011991							05/06/2004	1541
MB		3010.	-0.0006181							05/06/2004	1628
CCV		M0388	1.01816537		1.00		101.8	%	90-110	05/06/2004	1632
CCB			-0.0007573							05/06/2004	1645
LCS		M351	0.49794450		0.500		99.6	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.49193654		0.500	0.00787995	96.8	%	75-125	05/06/2004	1704

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224615 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224596-2	M351	0.51463343	0.49193654	0.500	0.00787995	101.4	%	75-125	05/06/2004	1709
							4.5	R	20		
CCV		M0388	1.00637306		1.00		100.6	%	90-110	05/06/2004	1738
CCB			-0.0009289							05/06/2004	1751
CCV		M0388	0.98255184		1.00		98.3	%	90-110	05/06/2004	1836
CCB			-0.0016094							05/06/2004	1850

Test Method.....: SW-846 6010B Batch.....: 93444 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.02180204		2.00		101.1	%	90-110	05/06/2004	1339
ICV		M0380	1.00349118		1.00		100.3	%	90-110	05/06/2004	1408
ICV		M0380	0.97115379		1.00		97.1	%	90-110	05/06/2004	1436
ICB			-0.0013728							05/06/2004	1459
CCB			-0.0015623							05/06/2004	1505
ICV		M368B	0.50838182		0.500		101.7	%	90-110	05/06/2004	1522
CCB			-0.0017287							05/06/2004	1541
MB		3010.	-0.0018274							05/06/2004	1628
CCV		M0388	1.02899370		1.00		102.9	%	90-110	05/06/2004	1632
CCB			-0.0017599							05/06/2004	1645
LCS		M351	0.50050599		0.500		100.1	%	80-120	05/06/2004	1649
MS	224596-2	M351	0.48997080		0.500	0.00334674	97.3	%	75-125	05/06/2004	1704
MSD	224596-2	M351	0.51874268	0.48997080	0.500	0.00334674	103.1	%	75-125	05/06/2004	1709
							5.7	R	20		
CCV		M0388	1.01003544		1.00		101.0	%	90-110	05/06/2004	1738
CCB			-0.0013252							05/06/2004	1751
CCV		M0388	0.98904211		1.00		98.9	%	90-110	05/06/2004	1836
CCB			-0.0016131							05/06/2004	1850

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4E070215

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

May 14, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 14, 2004

STL LOT NUMBER: **I4E070215**
PO/CONTRACT: 224615

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on May 7, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4E070215

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224615-1 05/05/04 16:20 001				
Cadmium	711	1.0	ug/L	SW846 6020
Antimony	20.1	1.0	ug/L	SW846 6020
Thallium	37.2	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4E070215

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4E070215

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GFQ9A	001	224615-1	05/05/04	16:20
GFQ9H	002	224615-2	05/05/04	16:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4E070215

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4132408	4132259
	WATER	SW846 6010B		4131446	4131266
002	WATER	SW846 6020		4132408	4132259
	WATER	SW846 6010B		4131446	

STL CORPUS CHRISTI

Client Sample ID: 224615-1

TOTAL Metals

Lot-Sample #...: I4E070215-001 Matrix.....: WATER
Date Sampled...: 05/05/04 16:20 Date Received..: 05/07/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFQ9A1AE
		Dilution Factor: 1		Analysis Time..: 11:15	MS Run #.....: 4131266	
Prep Batch #...: 4132408						
Cadmium	711	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9A1AA
		Dilution Factor: 1		Analysis Time..: 13:36	MS Run #.....: 4132259	
Antimony	20.1	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9A1AC
		Dilution Factor: 1		Analysis Time..: 13:36	MS Run #.....: 4132259	
Thallium	37.2	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9A1AD
		Dilution Factor: 1		Analysis Time..: 13:36	MS Run #.....: 4132259	

STL CORPUS CHRISTI

Client Sample ID: 224615-2

TOTAL Metals

Lot-Sample #...: I4E070215-002 **Matrix.....:** WATER
Date Sampled...: 05/05/04 16:30 **Date Received..:** 05/07/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFQ9H1AE
		Dilution Factor: 1		Analysis Time..: 11:20	MS Run #.....:	
Prep Batch #...: 4132408						
Cadmium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9H1AA
		Dilution Factor: 1		Analysis Time..: 13:42	MS Run #.....:	4132259
Antimony	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9H1AC
		Dilution Factor: 1		Analysis Time..: 13:42	MS Run #.....:	4132259
Thallium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9H1AD
		Dilution Factor: 1		Analysis Time..: 13:42	MS Run #.....:	4132259

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4E070215 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4E100000-446 **Prep Batch #...:** 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFXQ21AE
		Dilution Factor: 1				
		Analysis Time..: 11:10				
MB Lot-Sample #: I4E110000-408 **Prep Batch #...:** 4132408						
Antimony	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AC
		Dilution Factor: 1				
		Analysis Time..: 13:25				
Cadmium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AA
		Dilution Factor: 1				
		Analysis Time..: 13:25				
Thallium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AD
		Dilution Factor: 1				
		Analysis Time..: 13:25				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E070215 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E100000-446 **Prep Batch #...:** 4131446					
Bismuth	103	(80 - 120)	SW846 6010B	05/10-05/11/04	GFXQ21AJ
		Dilution Factor: 1	Analysis Time..: 01:11		
LCS Lot-Sample#: I4E110000-408 **Prep Batch #...:** 4132408					
Cadmium	99	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AE
		Dilution Factor: 1	Analysis Time..: 13:31		
Antimony	98	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AF
		Dilution Factor: 1	Analysis Time..: 13:31		
Thallium	102	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AG
		Dilution Factor: 1	Analysis Time..: 13:31		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E070215 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E100000-446 **Prep Batch #...:** 4131446							
Bismuth	0.500	0.515	mg/L	103	SW846 6010B	05/10-05/11/04	GFXQ21AJ
			Dilution Factor: 1		Analysis Time..: 01:11		
LCS Lot-Sample#: I4E110000-408 **Prep Batch #...:** 4132408							
Cadmium	50.0	49.5	ug/L	99	SW846 6020	05/11-05/13/04	GF10P1AE
			Dilution Factor: 1		Analysis Time..: 13:31		
Antimony	50.0	49.1	ug/L	98	SW846 6020	05/11-05/13/04	GF10P1AF
			Dilution Factor: 1		Analysis Time..: 13:31		
Thallium	50.0	51.1	ug/L	102	SW846 6020	05/11-05/13/04	GF10P1AG
			Dilution Factor: 1		Analysis Time..: 13:31		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E070215 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4131446							
Bismuth	104	(75 - 125)			SW846 6010B	05/10-05/11/04	GFQ941AM
	103	(75 - 125)	0.42	(0-20)	SW846 6010B	05/10-05/11/04	GFQ941AN
		Dilution Factor: 1					
		Analysis Time..: 11:50					
		MS Run #.....: 4131266					
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4132408							
Antimony	100	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AH
	100	(80 - 120)	0.28	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AJ
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					
Cadmium	98	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AF
	100	(80 - 120)	1.0	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AG
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					
Thallium	103	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AK
	103	(80 - 120)	0.02	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AL
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E070215 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4131446									
Bismuth									
	ND	0.500	0.518	mg/L	104		SW846 6010B	05/10-05/11/04	GFQ941AM
	ND	0.500	0.516	mg/L	103	0.42	SW846 6010B	05/10-05/11/04	GFQ941AN
			Dilution Factor: 1						
			Analysis Time..: 11:50						
			MS Run #.....: 4131266						
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4132408									
Antimony									
	ND	50.0	50.6	ug/L	100		SW846 6020	05/11-05/13/04	GFQ941AH
	ND	50.0	50.5	ug/L	100	0.28	SW846 6020	05/11-05/13/04	GFQ941AJ
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						
Cadmium									
	21.5	50.0	70.7	ug/L	98		SW846 6020	05/11-05/13/04	GFQ941AF
	21.5	50.0	71.4	ug/L	100	1.0	SW846 6020	05/11-05/13/04	GFQ941AG
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						
Thallium									
	ND	50.0	52.2	ug/L	103		SW846 6020	05/11-05/13/04	GFQ941AK
	ND	50.0	52.2	ug/L	103	0.02	SW846 6020	05/11-05/13/04	GFQ941AL
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4E070215

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 5-7-04/0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 5-7-04/0900

CLIENT/PROJECT: STL - Corpus Christi

SAMPLES LOGGED IN: BJ

LOG-IN REVIEWED:

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: LT **IR THERMOMETER #:** R5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (____PM). Date: Time:

Samples received do not require cooling

OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (____PM)

Date: Time: ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

Revised 01/06/04

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: KT

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 5/17/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

I4E070215

No. 23725

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	BILLING INFORMATION
ADDRESS:	BILL TO:
	ADDRESS:
	Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST 6020 (Sb, Cd, Tl)	6010 (Bi)						REMARKS/PRECAUTIONS
	224615-1	5/5/04	16:20	Water	P500	HNO3	1	X	X						Attn:
	224615-2	〃	16:30	〃	〃	〃	1	X	X						Neal Salcher
															ASARCO Pricing
															2°C/ZT / 5-7-04

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	5/6/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: ROMENA DELACRUZ STL	TIME 1540	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: Luke Townsend	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	5-7-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Luke Townsend / STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Encycle RCRA Closure
Project Location Encycle Corpus Christi, TX
Laboratory STL
Project Manager Ken Brandner
Sampler(s)/Affiliation Ken Brandner / ARCADIS

2246015
10.1°C
Just sampled

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Cyanide (1 gt poly w/NaOH)	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 1-pt. poly w/HNO3)					Remarks	Total
BIN A	L	5/5/04 4:20		1	2					Need low detection	3
Field Blank	L	" 4:30		1	2					limits	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 6

					Seal Intact?
Relinquished by: Ken Brandner	Organization: ARCADIS	Date 5/5/04	Time 4:41		
Received by: [signature]	Organization: STL-CC	Date 5/5/04	Time 1641		Yes No (N/A)
Relinquished by:	Organization:	Date / /	Time		Seal Intact?
Received by:	Organization:	Date / /	Time		Yes No N/A

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus Invoice to Rich Marcus G- RCRA Closure. Need low detection limits. Normal turnaround time.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277540 **Report Date:** 09/07/04
Project ID:
Sample Name: Bin A
Sample Matrix: water
Date Received: 08/30/2004 **Time:** 16:05
Date Sampled: 08/30/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	08/31/04	3015	---	---	---	---	---
Antimony/ICP	<0.006	mg/L	0.006	<0.006	09/07/04	6010 & 200.7	---	3.46	92.91	100.84	87.36
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	3.38	92.82	101.36	88.56
Cadmium/ICP	0.0073	mg/L	0.002	<0.002	09/07/04	6010 & 200.7	---	0.97	93.02	98.9	86.9
Copper/ICP	0.0729	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	0.72	96.94	97.56	87.26
Lead/ICP	0.0556	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	0.57	94.67	100.56	85.2
Nickel/ICP	0.0339	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	1.46	91.18	98.86	85.74
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	09/01/04	279.2&7841	---	6.94	109.63	110	91.6

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name ARCADIS/ENCYCLE
Address 711 N. CARANCAHUA
City CC. State TX Zip 78475
ATTN: BEN BEAVER / RICH MARCUS
Phone 361 883 1353 Fax 361 883 7565

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler:

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Analyses Requested (1) Please attach explanatory information as required: TOTAL PAH'S (8270 SIM), CADMIUM, COPPER, LEAD & MERCURY, TCLP PAH'S W/ PNA'S	Comments
BNA	8/30/04	1600	1		X		277540	X	5-Day TURNAROUND RESULTS TO B. BEAVER (ARCADIS) & R. MARCUS (ENCYCLE)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
J. Clements	ARCADIS	8/30/04	1605	M. Wold	ASI	8/30/04	1605
				Melanie Harmony	ASI	8/31/04	0845

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277554 **Report Date:** 09/09/04
Project ID: Encycle RCRA Closure
Sample Name: Bin A
Sample Matrix: water
Date Received: 08/31/2004 **Time:** 12:50
Date Sampled: 08/31/2004 **Time:** 12:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	0.005	mg/L	0.002	<0.002	09/09/04	6010 & 200.7	---	1.06	88.45	102	92.44
Lead/ICP	0.0308	mg/L	0.01	<0.01	09/09/04	6010 & 200.7	---	1.27	88.76	102.66	93.7

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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(512) 444-5896

Send Reports To:
Company Name ARCADIS / ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRADNER / Rich MARCUS
Phone 883 1353 Fax 883 7565

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City CC State TX Zip
ATTN: Rich MARCUS
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler:

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL ANTIMONY, ARSENIC, MN	CADMIUM, COPPER, LEAD	~~NICKEL, THALLIUM~~ 1 PT POLY W/ HNO3					Comments
BINA	8-31-04	1225	1		X		277554	X		analyze per R Marcus					HOLD, PENDING NOTIFICATION FROM KEN BRADNER

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T: 2.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
J CLEMENTS	ARCADDS	8-31-04	1250	M. Well	ASI	8/31/04	1250
				[illegible]	ASI	9/1/04	0850

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278339 **Report Date:** 10/01/04
Project ID:
Sample Name: Bin A
Sample Matrix: water
Date Received: 09/29/2004 **Time:** 15:55
Date Sampled: 09/29/2004 **Time:** 15:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/30/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/30/04	6010 & 200.7	J	1.64	95.63	97.24	98.82

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Respectfully Submitted,

Dale Wagner

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Exceptions Report:

Report #/Lab ID#: 278339 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID:
Sample Name: Bin A

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Lead/ICP	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

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3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name: ARCADIS / ENVYCLE

Address: 711 N. CARANCAHUA

City: CC State: TX Zip: 78475

ATTN: KAN BRADNER / RICK MARKS

Phone: 883 1353 Fax: 883 7565

Bill To (if different):

Company Name: ENVYCLE PLEX CORPUS

Address:

City: State: Zip:

ATTN: RICK MARKS

Phone: Fax:

Project Name/PO#: Sampler

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TPH 1005											RUSH TAT (Pre-Scheduled)	Standard TAT
BINA	9-29-04	1545	1	X		278339	X	X											X												

Special Instructions (such as special QC requirements, lists, methods, etc...): NEED 3 day TURNAROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's nonnal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): +2.2

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
J. CLIENTS	ARCADIS	9-29-04	1555	L. Flowman	ASI	9.29.04	1555	NO	
				L. Flynn	ASI	9/30/04	0845		

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SEVERN TRENT STL

RECEIVED
MAY 20 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224598

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/18/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

5/18/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 41

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/18/2004

Job Number.: 224598
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224598-1	BIN B	Water	05/04/2004	15:55	05/04/2004	16:16
224598-2	BIN B DUPLICATE	Water	05/04/2004	15:55	05/04/2004	16:16

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224598 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN B
Date Sampled.....: 05/04/2004
Time Sampled.....: 15:55
Sample Matrix.....: Water

Laboratory Sample ID: 224598-1
Date Received.....: 05/04/2004
Time Received.....: 16:16

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	05/05/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/07/04	dev
SW-846 6010B	Arsenic (As), Total	0.06	0.01	mg/L	05/05/04	jem
SW-846 6010B	Barium (Ba), Total	0.12	0.01	mg/L	05/05/04	jem
SW-846 6010B	Chromium (Cr), Total	0.03	0.01	mg/L	05/05/04	jem
SW-846 6010B	Cobalt (Co), Total	0.03	0.01	mg/L	05/05/04	jem
SW-846 6010B	Copper (Cu), Total	3.59	0.01	mg/L	05/05/04	jem
SW-846 6010B	Lead (Pb), Total	2.41	0.01	mg/L	05/05/04	jem
SW-846 6010B	Manganese (Mn), Total	0.06	0.01	mg/L	05/05/04	jem
SW-846 6010B	Nickel (Ni), Total	1.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	05/05/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	05/05/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Zinc (Zn), Total	3.47	0.01	mg/L	05/05/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			05/05/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224598 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN B DUPLICATE
Date Sampled.....: 05/04/2004
Time Sampled.....: 15:55
Sample Matrix.....: Water

Laboratory Sample ID: 224598-2
Date Received.....: 05/04/2004
Time Received.....: 16:16

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	05/05/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/07/04	dev
SW-846 6010B	Arsenic (As), Total	0.09	0.01	mg/L	05/05/04	jem
SW-846 6010B	Barium (Ba), Total	0.16	0.01	mg/L	05/05/04	jem
SW-846 6010B	Chromium (Cr), Total	0.04	0.01	mg/L	05/05/04	jem
SW-846 6010B	Cobalt (Co), Total	0.04	0.01	mg/L	05/05/04	jem
SW-846 6010B	Copper (Cu), Total	5.02	0.01	mg/L	05/05/04	jem
SW-846 6010B	Lead (Pb), Total	3.34	0.01	mg/L	05/05/04	jem
SW-846 6010B	Manganese (Mn), Total	0.09	0.01	mg/L	05/05/04	jem
SW-846 6010B	Nickel (Ni), Total	1.42	0.01	mg/L	05/05/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Silver (Ag), Total	0.007	0.005	mg/L	05/05/04	jem
SW-846 6010B	Tin (Sn), Total	0.04	0.02	mg/L	05/05/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Zinc (Zn), Total	6.13	0.01	mg/L	05/05/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			05/05/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 93344 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M050504HG	0.00480		0.00500		96.0	%	90-110	05/05/2004	1559
ICB			-0.000192							05/05/2004	1602
LCS		M050504LG	0.00450		0.0050		90.0	%	85-115	05/05/2004	1605
MB			-0.000182							05/05/2004	1607
MS	224561-1	M050504HG	0.00601		0.00500	-0.000157	123.3	%	75-125	05/05/2004	1610
MSD	224561-1	M050504HG	0.00589	0.00601	0.00500	-0.000157	120.9	%	75-125	05/05/2004	1612
							2.0	R	20		
MS	224541-1	M050504HG	0.00584		0.00500	0.000074	115.3	%	75-125	05/05/2004	1618
MSD	224541-1	M050504HG	0.00549	0.00584	0.00500	0.000074	108.3	%	75-125	05/05/2004	1620
							6.2	R	20		
CCV		M050504HG	0.00506		0.00500		101.2	%	80-120	05/05/2004	1632
CCB			0.000117							05/05/2004	1634
CCV		M050504HG	0.00496		0.00500		99.2	%	80-120	05/05/2004	1654
CCB			0.000155							05/05/2004	1657

Test Method.....: EPA 9010B/9012A Batch.....: 93440 Analyst...: dev
Method Description.: Cyanide (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		050704	-0.0014							05/07/2004	1515
CCV		CN040507E	0.4078		0.4000		102.0	%	90-110	05/07/2004	1518
MB		050704	0.0006							05/07/2004	1520
LCS		CN040507P	0.0478		0.05000		95.6	%	76-117	05/07/2004	1522
LCS		CN040507Q	0.0910		0.1000		91.0	%	76-117	05/07/2004	1525
LCS		CN040507R	0.1840		0.2000		92.0	%	76-117	05/07/2004	1527
MS	224572-1	CN040507S	0.0541		0.05000	0.0057	96.8	%	75-125	05/07/2004	1535
MSD	224572-1	CN040507S	0.0552	0.0541	0.05000	0.0057	99.0	%	75-125	05/07/2004	1537
							2.0	R	20		
CCB		050704	-0.0017							05/07/2004	1557
CCV		CN040507E	0.4045		0.4000		101.1	%	90-110	05/07/2004	1600

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.95569028		2.00		97.8	%	90-110	05/05/2004	1029
ICV		M0368	0.95616172		1.00		95.6	%	90-110	05/05/2004	1044
ICV		M0380	0.95382687		1.00		95.4	%	90-110	05/05/2004	1100
ICB			-0.0048939							05/05/2004	1117
CCB			-0.0048559							05/05/2004	1137
CCV		M0388	1.00567766		1.00		100.6	%	90-110	05/05/2004	1148
CCB			-0.0004871							05/05/2004	1159
MB		3051	-0.0048135							05/05/2004	1205
LCS		M351	0.48736401		0.500		97.5	%	85-110	05/05/2004	1208
MS	224486-1	M351	0.45701159		0.500	-0.0075624	92.9	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.49244639	0.45701159	0.500	-0.0075624	100.0	%	75-125	05/05/2004	1229
							7.5	R	20		

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0016743							05/05/2004	1237
LCS		M351	0.48896389		0.500		97.8	%	85-110	05/05/2004	1243
CCV		M0388	1.00062441		1.00		100.1	%	90-110	05/05/2004	1249
CCB			-0.0022261							05/05/2004	1302
CCV		M0388	0.99964663		1.00		100.0	%	90-110	05/05/2004	1352
CCB			-0.0031821							05/05/2004	1402
CCV		M0388	1.00580250		1.00		100.6	%	90-110	05/05/2004	1443
CCB			-0.0009346							05/05/2004	1456
MB		3010	0.00006258							05/05/2004	1516
LCS		M351	0.48317577		0.500		96.6	%	85-110	05/05/2004	1522
MSD	224561-1	M351	0.47953916	0.48338492	0.500	0.00273780	95.4	%	75-125	05/05/2004	1621
							0.8	R	20		
CCV		M0388	0.99484857		1.00		99.5	%	90-110	05/05/2004	1627
CCB			0.00202857							05/05/2004	1637
CCV		M0388	0.99293318		1.00		99.3	%	90-110	05/05/2004	1700
CCB			0.00261838							05/05/2004	1711
MB		3010	-0.0007120							05/05/2004	1717
LCS		M351	0.47956502		0.500		95.9	%	85-110	05/05/2004	1724
MS	224585-2	M351	0.49125765		0.500	0.01172496	95.9	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.49868050	0.49125765	0.500	0.01172496	97.4	%	75-125	05/05/2004	1744
							1.5	R	20		
CCV		M0388	0.98615475		1.00		98.6	%	90-110	05/05/2004	1801
CCB			-0.0016239							05/05/2004	1812
MB		3050	0.00226177							05/05/2004	1818
LCS		M351	0.48339785		0.500		96.7	%	66-110	05/05/2004	1825
SB		M383D	2.07401875		2.31		89.8	%	66-110	05/05/2004	1830
MS	224573-1	M351	0.58224755		0.500	0.02191838	112.1	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.49343100	0.58224755	0.500	0.02191838	94.3	%	75-125	05/05/2004	1854
							16.5	R	20		
CCV		M0388	1.00080141		1.00		100.1	%	90-110	05/05/2004	1906
CCB			-0.0037732							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0369	0.94698824		1.00		94.7	%	90-110	05/05/2004	1049
ICB			-0.0010142							05/05/2004	1117
ICV		M0369	0.96112721		1.00		96.1	%	90-110	05/05/2004	1134
CCB			-0.0006626							05/05/2004	1137
CCV		M0388	1.03715270		1.00		103.7	%	90-110	05/05/2004	1148
CCB			-0.0009881							05/05/2004	1159
MB		3051	-0.0016015							05/05/2004	1205
LCS		M351	0.51981037		0.500		104.0	%	90-110	05/05/2004	1208
MS	224486-1	M351	0.50291328		0.500	0.02331786	95.9	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.54767480	0.50291328	0.500	0.02331786	104.9	%	75-125	05/05/2004	1229
							8.5	R	20		
MB		3010	-0.0014729							05/05/2004	1237
LCS		M351	0.50565187		0.500		101.1	%	90-110	05/05/2004	1243
CCV		M0388	1.03744330		1.00		103.7	%	90-110	05/05/2004	1249

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0007187							05/05/2004	1302
CCV		M0388	1.02747295		1.00		102.7	%	90-110	05/05/2004	1352
CCB			-0.0009708							05/05/2004	1402
CCV		M0388	1.02381418		1.00		102.4	%	90-110	05/05/2004	1443
CCB			-0.0009294							05/05/2004	1456
MB		3010	-0.0014720							05/05/2004	1516
LCS		M351	0.49656935		0.500		99.3	%	90-110	05/05/2004	1522
MSD	224561-1	M351	0.50107559	0.50797799	0.500	0.02935631	94.3	%	75-125	05/05/2004	1621
							1.4	R	20		
CCV		M0388	0.99973890		1.00		100.0	%	90-110	05/05/2004	1627
CCB			-0.0007053							05/05/2004	1637
CCV		M0388	1.00886808		1.00		100.9	%	90-110	05/05/2004	1700
CCB			-0.0010016							05/05/2004	1711
MB		3010	-0.0015640							05/05/2004	1717
LCS		M351	0.48887438		0.500		97.8	%	90-110	05/05/2004	1724
MS	224585-2	M351	1.29337762		0.500	0.82640564	93.4	%	75-125	05/05/2004	1739
MSD	224585-2	M351	1.29724673	1.29337762	0.500	0.82640564	94.2	%	75-125	05/05/2004	1744
							0.3	R	20		
CCV		M0388	1.00210430		1.00		100.2	%	90-110	05/05/2004	1801
CCB			-0.0011433							05/05/2004	1812
MB		3050	-0.0016204							05/05/2004	1818
LCS		M351	0.48754470		0.500		97.5	%	58-110	05/05/2004	1825
SB		M383D	8.50352687		10.00		85.0	%	58-110	05/05/2004	1830
MS	224573-1	M351	3.98133132		0.500	3.73211187	49.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	4.10673315	3.98133132	0.500	3.73211187	74.9	%	75-125	05/05/2004	1854
							3.1	R	20		
CCV		M0388	1.01697339		1.00		101.7	%	90-110	05/05/2004	1906
CCB			-0.0009856							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96453692		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.97163402		1.00		97.2	%	90-110	05/05/2004	1044
ICV		M0380	0.97109500		1.00		97.1	%	90-110	05/05/2004	1100
ICB			-0.0007572							05/05/2004	1117
CCB			-0.0009783							05/05/2004	1137
ICV		M368B	0.47046803		0.500		94.1	%	90-110	05/05/2004	1143
CCV		M0388	1.03035539		1.00		103.0	%	90-110	05/05/2004	1148
CCB			-0.0006048							05/05/2004	1159
MB		3051	-0.0008930							05/05/2004	1205
LCS		M351	0.51715111		0.500		103.4	%	90-110	05/05/2004	1208
MS	224486-1	M351	0.48739023		0.500	0.00231446	97.0	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52923123	0.48739023	0.500	0.00231446	105.4	%	75-125	05/05/2004	1229
							8.2	R	20		
MB		3010	-0.0006434							05/05/2004	1237
LCS		M351	0.50253966		0.500		100.5	%	90-110	05/05/2004	1243
CCV		M0388	1.03402085		1.00		103.4	%	90-110	05/05/2004	1249
CCB			-0.0009861							05/05/2004	1302

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.02639496		1.00		102.6	%	90-110	05/05/2004	1352
CCB			-0.0006015							05/05/2004	1402
CCV		M0388	1.02526716		1.00		102.5	%	90-110	05/05/2004	1443
CCB			-0.0009999							05/05/2004	1456
MB		3010	-0.0013690							05/05/2004	1516
LCS		M351	0.49247014		0.500		98.5	%	90-110	05/05/2004	1522
MSD	224561-1	M351	0.47669702	0.48080263	0.500	0.00013956	95.3	%	75-125	05/05/2004	1621
							0.9	R	20		
CCV		M0388	0.99967585		1.00		100.0	%	90-110	05/05/2004	1627
CCB			-0.0006089							05/05/2004	1637
CCV		M0388	1.01255221		1.00		101.3	%	90-110	05/05/2004	1700
CCB			-0.0005565							05/05/2004	1711
MB		3010	-0.0011837							05/05/2004	1717
LCS		M351	0.48880917		0.500		97.8	%	90-110	05/05/2004	1724
MS	224585-2	M351	0.48389036		0.500	0.00189239	96.4	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.48491834	0.48389036	0.500	0.00189239	96.6	%	75-125	05/05/2004	1744
							0.2	R	20		
CCV		M0388	1.00346916		1.00		100.3	%	90-110	05/05/2004	1801
CCB			-0.0006176							05/05/2004	1812
MB		3050	-0.0009199							05/05/2004	1818
LCS		M351	0.48670975		0.500		97.3	%	72-110	05/05/2004	1825
SB		M383D	1.79803887		2.07		86.9	%	72-110	05/05/2004	1830
MS	224573-1	M351	0.62414403		0.500	0.04526632	115.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.53520036	0.62414403	0.500	0.04526632	98.0	%	75-125	05/05/2004	1854
							15.3	R	20		
CCV		M0388	1.01881834		1.00		101.9	%	90-110	05/05/2004	1906
CCB			-0.0005755							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96286556		2.00		98.1	%	90-110	05/05/2004	1029
ICV		M0368	0.98232223		1.00		98.2	%	90-110	05/05/2004	1044
ICV		M0380	1.02477247		1.00		102.5	%	90-110	05/05/2004	1100
ICB			-0.0005553							05/05/2004	1117
CCB			-0.0005505							05/05/2004	1137
CCV		M0388	1.03643717		1.00		103.6	%	90-110	05/05/2004	1148
CCB			-0.0006272							05/05/2004	1159
MB		3051	-0.0004054							05/05/2004	1205
LCS		M351	0.52078013		0.500		104.2	%	90-110	05/05/2004	1208
MS	224486-1	M351	0.48861790		0.500	-0.0011409	98.0	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52645079	0.48861790	0.500	-0.0011409	105.5	%	75-125	05/05/2004	1229
							7.5	R	20		
MB		3010	-0.0006265							05/05/2004	1237
LCS		M351	0.50138177		0.500		100.3	%	90-110	05/05/2004	1243
CCV		M0388	1.03328831		1.00		103.3	%	90-110	05/05/2004	1249
CCB			-0.0005893							05/05/2004	1302
CCV		M0388	1.02641287		1.00		102.6	%	90-110	05/05/2004	1352
CCB			-0.0004136							05/05/2004	1402

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.02532269		1.00		102.5	%	90-110	05/05/2004	1443
CCB			-0.0002490							05/05/2004	1456
MB		3010	-0.0008586							05/05/2004	1516
LCS		M351	0.49330779		0.500		98.7	%	90-110	05/05/2004	1522
MSD	224561-1	M351	0.45166462	0.45815110	0.500	-0.0005846	90.4	%	75-125	05/05/2004	1621
							1.4	R	20		
CCV		M0388	0.99406820		1.00		99.4	%	90-110	05/05/2004	1627
CCB			-0.0006065							05/05/2004	1637
CCV		M0388	1.01000574		1.00		101.0	%	90-110	05/05/2004	1700
CCB			-0.0007820							05/05/2004	1711
MB		3010	-0.0004213							05/05/2004	1717
LCS		M351	0.48494057		0.500		97.0	%	90-110	05/05/2004	1724
MS	224585-2	M351	0.46570599		0.500	-0.0007914	93.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.47229728	0.46570599	0.500	-0.0007914	94.6	%	75-125	05/05/2004	1744
							1.4	R	20		
CCV		M0388	0.99779984		1.00		99.8	%	90-110	05/05/2004	1801
CCB			-0.0009237							05/05/2004	1812
MB		3050	-0.0007977							05/05/2004	1818
LCS		M351	0.48042348		0.500		96.1	%	72-110	05/05/2004	1825
SB		M383D	1.86185080		2.10		88.7	%	72-110	05/05/2004	1830
MS	224573-1	M351	0.56170542		0.500	0.01710583	108.9	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.48126880	0.56170542	0.500	0.01710583	92.8	%	75-125	05/05/2004	1854
							15.4	R	20		
CCV		M0388	1.01355632		1.00		101.4	%	90-110	05/05/2004	1906
CCB			-0.0008381							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.02259240		2.00		101.1	%	90-110	05/05/2004	1029
ICV		M0368	1.02359219		1.00		102.4	%	90-110	05/05/2004	1044
ICV		M0380	1.03670326		1.00		103.7	%	90-110	05/05/2004	1100
ICB			0.00048660							05/05/2004	1117
CCB			-0.0011345							05/05/2004	1137
ICV		M368B	0.49518319		0.500		99.0	%	90-110	05/05/2004	1143
CCV		M0388	1.07529324		1.00		107.5	%	90-110	05/05/2004	1148
CCB			0.00025235							05/05/2004	1159
MB		3051	-0.0002626							05/05/2004	1205
LCS		M351	0.56491872		0.500		113.0	%	80-120	05/05/2004	1208
MS	224486-1	M351	0.65280998		0.500	0.13527310	103.5	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.71455281	0.65280998	0.500	0.13527310	115.9	%	75-125	05/05/2004	1229
							9.0	R	20		
MB		3010	0.00040018							05/05/2004	1237
LCS		M351	0.54008799		0.500		108.0	%	89-112	05/05/2004	1243
CCV		M0388	1.07305560		1.00		107.3	%	90-110	05/05/2004	1249
CCB			-0.0001947							05/05/2004	1302
CCV		M0388	1.05710120		1.00		105.7	%	90-110	05/05/2004	1352
CCB			-0.0011738							05/05/2004	1402
CCV		M0388	1.05976616		1.00		106.0	%	90-110	05/05/2004	1443

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0025015							05/05/2004	1456
MB		3010	-0.0021046							05/05/2004	1516
LCS		M351	0.52627549		0.500		105.3	%	89-112	05/05/2004	1522
MSD	224561-1	M351	0.53787759	0.54174134	0.500	0.04082392	99.4	%	75-125	05/05/2004	1621
							0.7	R	20		
CCV		M0388	1.03579094		1.00		103.6	%	90-110	05/05/2004	1627
CCB			-0.0027976							05/05/2004	1637
CCV		M0388	1.03826083		1.00		103.8	%	90-110	05/05/2004	1700
CCB			-0.0017203							05/05/2004	1711
MB		3010	-0.0034059							05/05/2004	1717
LCS		M351	0.52431123		0.500		104.9	%	89-112	05/05/2004	1724
MS	224585-2	M351	0.54973718		0.500	0.00606294	108.7	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.54657211	0.54973718	0.500	0.00606294	108.1	%	75-125	05/05/2004	1744
							0.6	R	20		
CCV		M0388	1.05855973		1.00		105.9	%	90-110	05/05/2004	1801
CCB			0.00188748							05/05/2004	1812
MB		3050	0.00050669							05/05/2004	1818
LCS		M351	0.57174338		0.500		114.3	%	67-119	05/05/2004	1825
SB		M383D	0.88807462		0.85		104.5	%	67-119	05/05/2004	1830
MS	224573-1	M351	0.68758142		0.500	0.05017293	127.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.58906271	0.68758142	0.500	0.05017293	107.8	%	75-125	05/05/2004	1854
							15.4	R	20		
CCV		M0388	1.06808334		1.00		106.8	%	90-110	05/05/2004	1906
CCB			-0.0035098							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96351547		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.97835892		1.00		97.8	%	90-110	05/05/2004	1044
ICV		M0380	0.97662246		1.00		97.7	%	90-110	05/05/2004	1100
ICB			-0.0005673							05/05/2004	1117
CCB			-0.0037506							05/05/2004	1137
ICV		M368B	0.48098065		0.500		96.2	%	90-110	05/05/2004	1143
CCV		M0388	1.01732430		1.00		101.7	%	90-110	05/05/2004	1148
CCB			-0.0007682							05/05/2004	1159
MB		3051	-0.0008466							05/05/2004	1205
LCS		M351	0.51559521		0.500		103.1	%	87-112	05/05/2004	1208
MS	224486-1	M351	0.49094955		0.500	0.00965662	96.3	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52742382	0.49094955	0.500	0.00965662	103.6	%	75-125	05/05/2004	1229
							7.2	R	20		
MB		3010	-0.0023737							05/05/2004	1237
LCS		M351	0.49686515		0.500		99.4	%	87-112	05/05/2004	1243
CCV		M0388	1.01617763		1.00		101.6	%	90-110	05/05/2004	1249
CCB			-0.0023203							05/05/2004	1302
CCV		M0388	1.00863265		1.00		100.9	%	90-110	05/05/2004	1352
CCB			0.00126154							05/05/2004	1402
CCV		M0388	1.01997810		1.00		102.0	%	90-110	05/05/2004	1443
CCB			-0.0011518							05/05/2004	1456

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0016165							05/05/2004	1516
LCS		M351	0.49241844		0.500		98.5	%	87-112	05/05/2004	1522
MSD	224561-1	M351	0.46609444	0.47548971	0.500	0.00314484	92.6	%	75-125	05/05/2004	1621
							2.0	R	20		
CCV		M0388	0.99892043		1.00		99.9	%	90-110	05/05/2004	1627
CCB			-0.0018299							05/05/2004	1637
CCV		M0388	1.00366827		1.00		100.4	%	90-110	05/05/2004	1700
CCB			-0.0022088							05/05/2004	1711
MB		3010	-0.0014586							05/05/2004	1717
LCS		M351	0.48431555		0.500		96.9	%	87-112	05/05/2004	1724
MS	224585-2	M351	0.46857579		0.500	0.00279557	93.2	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.47398301	0.46857579	0.500	0.00279557	94.2	%	75-125	05/05/2004	1744
							1.1	R	20		
CCV		M0388	0.99828048		1.00		99.8	%	90-110	05/05/2004	1801
CCB			-0.0013692							05/05/2004	1812
MB		3050	-0.0006663							05/05/2004	1818
LCS		M351	0.48642246		0.500		97.3	%	71-110	05/05/2004	1825
SB		M383D	1.73137746		2.04		84.9	%	71-110	05/05/2004	1830
MS	224573-1	M351	0.59021467		0.500	0.04264810	109.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.50579104	0.59021467	0.500	0.04264810	92.6	%	75-125	05/05/2004	1854
							15.4	R	20		
CCV		M0388	0.99159670		1.00		99.2	%	90-110	05/05/2004	1906
CCB			-0.0009782							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98211603		2.00		99.1	%	90-110	05/05/2004	1029
ICV		M0368	0.97656368		1.00		97.7	%	90-110	05/05/2004	1044
ICV		M0380	0.95309048		1.00		95.3	%	90-110	05/05/2004	1100
ICB			-0.0010617							05/05/2004	1117
CCB			-0.0010692							05/05/2004	1137
CCV		M0388	1.03247113		1.00		103.2	%	90-110	05/05/2004	1148
CCB			-0.0011160							05/05/2004	1159
MB		3051	-0.0011821							05/05/2004	1205
LCS		M351	0.51726595		0.500		103.5	%	88-110	05/05/2004	1208
MS	224486-1	M351	0.49054047		0.500	0.00516986	97.1	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.53205382	0.49054047	0.500	0.00516986	105.4	%	75-125	05/05/2004	1229
							8.1	R	20		
MB		3010	-0.0010506							05/05/2004	1237
LCS		M351	0.50218560		0.500		100.4	%	88-110	05/05/2004	1243
CCV		M0388	1.02826044		1.00		102.8	%	90-110	05/05/2004	1249
CCB			-0.0011261							05/05/2004	1302
CCV		M0388	1.02121636		1.00		102.1	%	90-110	05/05/2004	1352
CCB			-0.0010612							05/05/2004	1402
CCV		M0388	1.01795202		1.00		101.8	%	90-110	05/05/2004	1443
CCB			-0.0011794							05/05/2004	1456
MB		3010	-0.0012202							05/05/2004	1516
LCS		M351	0.49210463		0.500		98.4	%	88-110	05/05/2004	1522

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224561-1	M351	0.46709945	0.47225796	0.500	-0.0011610	93.7	%	75-125	05/05/2004	1621
							1.1	R	20		
CCV		M0388	0.99488785		1.00		99.5	%	90-110	05/05/2004	1627
CCB			-0.0012166							05/05/2004	1637
CCV		M0388	1.00936136		1.00		100.9	%	90-110	05/05/2004	1700
CCB			-0.0011989							05/05/2004	1711
MB		3010	-0.0013650							05/05/2004	1717
LCS		M351	0.48746452		0.500		97.5	%	88-110	05/05/2004	1724
MS	224585-2	M351	0.52361317		0.500	0.05123321	94.5	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.52483509	0.52361317	0.500	0.05123321	94.7	%	75-125	05/05/2004	1744
							0.2	R	20		
CCV		M0388	0.99730861		1.00		99.7	%	90-110	05/05/2004	1801
CCB			-0.0012788							05/05/2004	1812
MB		3050	-0.0013695							05/05/2004	1818
LCS		M351	0.50333263		0.500		100.7	%	88-110	05/05/2004	1825
SB		M383D	5.00172006		5.68		88.1	%	88-110	05/05/2004	1830
MS	224573-1	M351	1.56204334		0.500	0.76457409	159.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	1.38519968	1.56204334	0.500	0.76457409	124.1	%	75-125	05/05/2004	1854
							12.0	R	20		
CCV		M0388	1.00652602		1.00		100.7	%	90-110	05/05/2004	1906
CCB			-0.0011926							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96790738		2.00		98.4	%	90-110	05/05/2004	1029
ICV		M0368	0.97730746		1.00		97.7	%	90-110	05/05/2004	1044
ICV		M0380	0.99167174		1.00		99.2	%	90-110	05/05/2004	1100
ICB			-0.0017700							05/05/2004	1117
CCB			-0.0005882							05/05/2004	1137
ICV		M368B	0.47806202		0.500		95.6	%	90-110	05/05/2004	1143
CCV		M0388	1.02814360		1.00		102.8	%	90-110	05/05/2004	1148
CCB			-0.0012263							05/05/2004	1159
MB		3051	-0.0006789							05/05/2004	1205
LCS		M351	0.51036887		0.500		102.1	%	90-112	05/05/2004	1208
MS	224486-1	M351	0.48344786		0.500	-0.0006881	96.8	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52208350	0.48344786	0.500	-0.0006881	104.6	%	75-125	05/05/2004	1229
							7.7	R	20		
MB		3010	-0.0005811							05/05/2004	1237
LCS		M351	0.50809977		0.500		101.6	%	90-112	05/05/2004	1243
CCV		M0388	1.02907869		1.00		102.9	%	90-110	05/05/2004	1249
CCB			-0.0014561							05/05/2004	1302
CCV		M0388	1.02330953		1.00		102.3	%	90-110	05/05/2004	1352
CCB			-0.0006424							05/05/2004	1402
CCV		M0388	1.02275720		1.00		102.3	%	90-110	05/05/2004	1443
CCB			-0.0012900							05/05/2004	1456
MB		3010	-0.0012316							05/05/2004	1516
LCS		M351	0.49019418		0.500		98.0	%	90-112	05/05/2004	1522
MSD	224561-1	M351	0.44766799	0.45578732	0.500	0.00148081	89.2	%	75-125	05/05/2004	1621
							1.8	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.99593906		1.00		99.6	%	90-110	05/05/2004	1627
CCB			-0.0009459							05/05/2004	1637
CCV		M0388	1.00659686		1.00		100.7	%	90-110	05/05/2004	1700
CCB			-0.0004521							05/05/2004	1711
MB		3010	-0.0010167							05/05/2004	1717
LCS		M351	0.48824864		0.500		97.6	%	90-112	05/05/2004	1724
MS	224585-2	M351	0.47116631		0.500	-0.0003207	94.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.47414637	0.47116631	0.500	-0.0003207	94.9	%	75-125	05/05/2004	1744
							0.6	R	20		
CCV		M0388	1.00030462		1.00		100.0	%	90-110	05/05/2004	1801
CCB			-0.0006474							05/05/2004	1812
MB		3050	-0.0007735							05/05/2004	1818
LCS		M351	0.48852197		0.500		97.7	%	89-110	05/05/2004	1825
SB		M383D	1.68550504		1.89		89.2	%	89-110	05/05/2004	1830
MS	224573-1	M351	0.60049224		0.500	0.04027471	112.0	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.51514166	0.60049224	0.500	0.04027471	95.0	%	75-125	05/05/2004	1854
							15.3	R	20		
CCV		M0388	1.01686050		1.00		101.7	%	90-110	05/05/2004	1906
CCB			-0.0011004							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98193306		2.00		99.1	%	90-110	05/05/2004	1029
ICV		M0368	0.97443152		1.00		97.4	%	90-110	05/05/2004	1044
ICV		M0380	0.97071875		1.00		97.1	%	90-110	05/05/2004	1100
ICB			0.00013708							05/05/2004	1117
CCB			-0.0078257							05/05/2004	1137
ICV		M368B	0.48790083		0.500		97.6	%	90-110	05/05/2004	1143
CCV		M0388	1.01310135		1.00		101.3	%	90-110	05/05/2004	1148
MB		3051	-0.0037133							05/05/2004	1205
LCS		M351	0.47579415		0.500		95.2	%	82-111	05/05/2004	1208
MS	224486-1	M351	0.44023391		0.500	0.00943706	86.2	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.47530950	0.44023391	0.500	0.00943706	93.2	%	75-125	05/05/2004	1229
							7.7	R	20		
MB		3010	-0.0048247							05/05/2004	1237
LCS		M351	0.48816145		0.500		97.6	%	82-111	05/05/2004	1243
CCV		M0388	1.00632677		1.00		100.6	%	90-110	05/05/2004	1249
CCB			0.00482393							05/05/2004	1302
CCV		M0388	0.99643082		1.00		99.6	%	90-110	05/05/2004	1352
CCB			-0.0025919							05/05/2004	1402
CCV		M0388	1.00937670		1.00		100.9	%	90-110	05/05/2004	1443
CCB			-0.0054699							05/05/2004	1456
MB		3010	0.00417294							05/05/2004	1516
LCS		M351	0.47198947		0.500		94.4	%	82-111	05/05/2004	1522
MSD	224561-1	M351	0.48057992	0.48663460	0.500	0.01172049	93.8	%	75-125	05/05/2004	1621
							1.3	R	20		
CCV		M0388	0.99006322		1.00		99.0	%	90-110	05/05/2004	1627
CCB			-0.0070781							05/05/2004	1637

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.99376629		1.00		99.4	%	90-110	05/05/2004	1700
CCB			-0.0038259							05/05/2004	1711
MB		3010	-0.0059661							05/05/2004	1717
LCS		M351	0.46068852		0.500		92.1	%	82-111	05/05/2004	1724
MS	224585-2	M351	0.47136535		0.500	0.01214688	91.8	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.46959516	0.47136535	0.500	0.01214688	91.5	%	75-125	05/05/2004	1744
							0.4	R	20		
CCV		M0388	0.98844243		1.00		98.8	%	90-110	05/05/2004	1801
CCB			0.00228173							05/05/2004	1812
MB		3050	-0.0001454							05/05/2004	1818
LCS		M351	0.47637415		0.500		95.3	%	80-110	05/05/2004	1825
SB		M383D	0.87773681		0.996		88.1	%	80-110	05/05/2004	1830
MS	224573-1	M351	0.54560944		0.500	-0.0085002	110.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.46077500	0.54560944	0.500	-0.0085002	93.9	%	75-125	05/05/2004	1854
							16.9	R	20		
CCV		M0388	1.00690777		1.00		100.7	%	90-110	05/05/2004	1906
CCB			0.00100916							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	0.98679499		1.0		98.7	%	90-110	05/05/2004	1029
ICV		M0369	0.96187757		1.00		96.2	%	90-110	05/05/2004	1049
ICB			0.00060156							05/05/2004	1117
ICV		M0369	0.97711316		1.00		97.7	%	90-110	05/05/2004	1134
CCB			0.00028693							05/05/2004	1137
CCV		M0388	0.52085320		0.50		104.2	%	90-110	05/05/2004	1148
CCB			0.00041554							05/05/2004	1159
MB		3051	-0.0000758							05/05/2004	1205
LCS		M351	0.25449947		0.25		101.8	%	87-110	05/05/2004	1208
MS	224486-1	M351	0.23965655		0.25	-0.0002569	96.0	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.26046473	0.23965655	0.25	-0.0002569	104.3	%	75-125	05/05/2004	1229
							8.3	R	20		
MB		3010	0.00043437							05/05/2004	1237
LCS		M351	0.25364360		0.25		101.5	%	87-110	05/05/2004	1243
CCV		M0388	0.52175346		0.50		104.4	%	90-110	05/05/2004	1249
CCB			0.00037051							05/05/2004	1302
CCV		M0388	0.51458728		0.50		102.9	%	90-110	05/05/2004	1352
CCB			0.00012652							05/05/2004	1402
CCV		M0388	0.51507259		0.50		103.0	%	90-110	05/05/2004	1443
CCB			-0.0008645							05/05/2004	1456
MB		3010	-0.0002129							05/05/2004	1516
LCS		M351	0.24686678		0.25		98.7	%	87-110	05/05/2004	1522
MSD	224561-1	M351	0.04827809	0.03417062	0.25	-0.0007075	19.6	%	75-125	05/05/2004	1621
							34.2	R	20		
CCV		M0388	0.50347144		0.50		100.7	%	90-110	05/05/2004	1627
CCB			-0.0008196							05/05/2004	1637
CCV		M0388	0.50567516		0.50		101.1	%	90-110	05/05/2004	1700
CCB			0.00011396							05/05/2004	1711

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0004294							05/05/2004	1717
LCS		M351	0.24467974		0.25		97.9	%	87-110	05/05/2004	1724
MS	224585-2	M351	0.23653650		0.25	-0.0013056	95.1	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.24554654	0.23653650	0.25	-0.0013056	98.7	%	75-125	05/05/2004	1744
							3.7	R	20		
CCV		M0388	0.50507989		0.50		101.0	%	90-110	05/05/2004	1801
CCB			-0.0001354							05/05/2004	1812
MB		3050	-0.0000869							05/05/2004	1818
LCS		M351	0.24015784		0.25		96.1	%	81-110	05/05/2004	1825
SB		M383D	0.96772691		0.953		101.5	%	81-110	05/05/2004	1830
MS	224573-1	M351	0.28726180		0.25	-0.0014502	115.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.24422708	0.28726180	0.25	-0.0014502	98.3	%	75-125	05/05/2004	1854
							16.2	R	20		
CCV		M0388	0.50992244		0.50		102.0	%	90-110	05/05/2004	1906
CCB			0.00028555							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.00575746		2.00		100.3	%	90-110	05/05/2004	1032
ICV		M0374	0.93145850		1.00		93.1	%	90-110	05/05/2004	1109
ICB			-0.0046663							05/05/2004	1117
ICV		M0374	0.96225289		1.00		96.2	%	90-110	05/05/2004	1129
CCB			-0.0022280							05/05/2004	1137
CCV		M0388	1.99548367		2.00		99.8	%	90-110	05/05/2004	1148
CCB			0.00196612							05/05/2004	1159
MB		3051	-0.0067584							05/05/2004	1205
LCS		M351	1.02089010		1.00		102.1	%	83-118	05/05/2004	1208
MS	224486-1	M351	1.00817140		1.00	-0.0043401	101.3	%	75-125	05/05/2004	1223
MSD	224486-1	M351	1.02754800	1.00817140	1.00	-0.0043401	103.2	%	75-125	05/05/2004	1229
							1.9	R	20		
MB		3010	0.00111628							05/05/2004	1237
LCS		M351	0.94059183		1.00		94.1	%	83-118	05/05/2004	1243
CCV		M0388	2.01426995		2.00		100.7	%	90-110	05/05/2004	1249
CCB			-0.0038084							05/05/2004	1302
CCV		M0388	1.97227964		2.00		98.6	%	90-110	05/05/2004	1352
CCB			0.00234547							05/05/2004	1402
CCV		M0388	1.98318141		2.00		99.2	%	90-110	05/05/2004	1443
CCB			-0.0061172							05/05/2004	1456
MB		3010	-0.0070074							05/05/2004	1516
LCS		M351	0.94830971		1.00		94.8	%	83-118	05/05/2004	1522
MSD	224561-1	M351	0.90953737	0.92117885	1.00	-0.0264474	93.6	%	75-125	05/05/2004	1621
							1.3	R	20		
CCV		M0388	1.96357632		2.00		98.2	%	90-110	05/05/2004	1627
CCB			0.00462767							05/05/2004	1637
CCV		M0388	1.94205221		2.00		97.1	%	90-110	05/05/2004	1700
CCB			0.00135056							05/05/2004	1711
MB		3010	-0.0086764							05/05/2004	1717
LCS		M351	0.94108271		1.00		94.1	%	83-118	05/05/2004	1724

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224585-2	M351	0.91134952		1.00	-0.0189795	93.0	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.94106614	0.91134952	1.00	-0.0189795	96.0	%	75-125	05/05/2004	1744
							3.2	R	20		
CCV		M0388	1.93681655		2.00		96.8	%	90-110	05/05/2004	1801
CCB			0.00073633							05/05/2004	1812
MB		3050	-0.0077970							05/05/2004	1818
LCS		M351	0.94941216		1.00		94.9	%	82-111	05/05/2004	1825
SB		M383D	1.25682717		1.41		89.1	%	82-111	05/05/2004	1830
MS	224573-1	M351	0.85287672		1.00	-0.0288793	88.2	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.87287807	0.85287672	1.00	-0.0288793	90.2	%	75-125	05/05/2004	1854
							2.3	R	20		
CCV		M0388	1.94281804		2.00		97.1	%	90-110	05/05/2004	1906
CCB			-0.0006954							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96328627		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.96059604		1.00		96.1	%	90-110	05/05/2004	1044
ICV		M0380	0.96677575		1.00		96.7	%	90-110	05/05/2004	1100
ICB			-0.0013980							05/05/2004	1117
CCB			-0.0007868							05/05/2004	1137
ICV		M368B	0.46650974		0.500		93.3	%	90-110	05/05/2004	1143
CCV		M0388	1.01021863		1.00		101.0	%	90-110	05/05/2004	1148
CCB			-0.0001802							05/05/2004	1159
MB		3051	-0.0003029							05/05/2004	1205
LCS		M351	0.50099204		0.500		100.2	%	89-110	05/05/2004	1208
MS	224486-1	M351	0.47129399		0.500	-0.0003549	94.3	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.50985263	0.47129399	0.500	-0.0003549	102.0	%	75-125	05/05/2004	1229
							7.9	R	20		
MB		3010	0.00006791							05/05/2004	1237
LCS		M351	0.48997381		0.500		98.0	%	89-110	05/05/2004	1243
CCV		M0388	1.00553500		1.00		100.6	%	90-110	05/05/2004	1249
CCB			-0.0010040							05/05/2004	1302
CCV		M0388	1.00439200		1.00		100.4	%	90-110	05/05/2004	1352
CCB			-0.0007824							05/05/2004	1402
CCV		M0388	0.99877197		1.00		99.9	%	90-110	05/05/2004	1443
CCB			-0.0006352							05/05/2004	1456
MB		3010	-0.0008997							05/05/2004	1516
LCS		M351	0.48317630		0.500		96.6	%	89-110	05/05/2004	1522
MSD	224561-1	M351	0.47252848	0.47761798	0.500	0.00134441	94.2	%	75-125	05/05/2004	1621
							1.1	R	20		
CCV		M0388	0.98424914		1.00		98.4	%	90-110	05/05/2004	1627
CCB			0.00016971							05/05/2004	1637
CCV		M0388	0.99301047		1.00		99.3	%	90-110	05/05/2004	1700
CCB			-0.0003299							05/05/2004	1711
MB		3010	-0.0008796							05/05/2004	1717
LCS		M351	0.48016017		0.500		96.0	%	89-110	05/05/2004	1724
MS	224585-2	M351	0.48076922		0.500	-0.0008297	96.3	%	75-125	05/05/2004	1739

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224585-2	M351	0.48375467	0.48076922	0.500	-0.0008297	96.9	%	75-125	05/05/2004	1744
							0.6	R	20		
CCV		M0388	0.98820385		1.00		98.8	%	90-110	05/05/2004	1801
CCB			0.00028873							05/05/2004	1812
MB		3050	-0.0003256							05/05/2004	1818
LCS		M351	0.46803457		0.500		93.6	%	87-110	05/05/2004	1825
SB		M383D	1.70618868		2.04		83.6	%	87-110	05/05/2004	1830
MS	224573-1	M351	0.61225343		0.500	0.05842526	110.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.53353329	0.61225343	0.500	0.05842526	95.0	%	75-125	05/05/2004	1854
							13.7	R	20		
CCV		M0388	1.00438882		1.00		100.4	%	90-110	05/05/2004	1906
CCB			-0.0001368							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96495435		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.98141690		1.00		98.1	%	90-110	05/05/2004	1044
ICV		M0380	0.99004346		1.00		99.0	%	90-110	05/05/2004	1100
ICB			-0.0023678							05/05/2004	1117
CCB			-0.0015666							05/05/2004	1137
ICV		M368B	0.48473972		0.500		96.9	%	90-110	05/05/2004	1143
CCV		M0388	1.02812709		1.00		102.8	%	90-110	05/05/2004	1148
CCB			-0.0018317							05/05/2004	1159
MB		3051	0.00032373							05/05/2004	1205
LCS		M351	0.49829193		0.500		99.7	%	86-110	05/05/2004	1208
MS	224486-1	M351	0.68205188		0.500	0.24958749	86.5	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.75894863	0.68205188	0.500	0.24958749	101.9	%	75-125	05/05/2004	1229
							10.7	R	20		
MB		3010	0.00185047							05/05/2004	1237
LCS		M351	0.49679020		0.500		99.4	%	86-110	05/05/2004	1243
CCV		M0388	1.02234606		1.00		102.2	%	90-110	05/05/2004	1249
CCB			-0.0008958							05/05/2004	1302
CCV		M0388	1.01953303		1.00		102.0	%	90-110	05/05/2004	1352
CCB			-0.0016136							05/05/2004	1402
CCV		M0388	1.01773019		1.00		101.8	%	90-110	05/05/2004	1443
CCB			-0.0017983							05/05/2004	1456
MB		3010	-0.0020473							05/05/2004	1516
LCS		M351	0.48815449		0.500		97.6	%	86-110	05/05/2004	1522
MSD	224561-1	M351	0.49773640	0.50284271	0.500	0.02787724	94.0	%	75-125	05/05/2004	1621
							1.0	R	20		
CCV		M0388	0.99702236		1.00		99.7	%	90-110	05/05/2004	1627
CCB			-0.0019091							05/05/2004	1637
CCV		M0388	1.00358802		1.00		100.4	%	90-110	05/05/2004	1700
CCB			-0.0020213							05/05/2004	1711
MB		3010	-0.0030431							05/05/2004	1717
LCS		M351	0.47907682		0.500		95.8	%	86-110	05/05/2004	1724
MS	224585-2	M351	0.60532163		0.500	0.12372450	96.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.60705003	0.60532163	0.500	0.12372450	96.7	%	75-125	05/05/2004	1744
							0.3	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224598 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.99343744		1.00		99.3	%	90-110	05/05/2004	1801
CCB			-0.0024946							05/05/2004	1812
MB		3050	-0.0030300							05/05/2004	1818
LCS		M351	0.55506348		0.500		111.0	%	85-110	05/05/2004	1825
SB		M383D	2.74952483		3.29		83.6	%	85-110	05/05/2004	1830
MS	224573-1	M351	0.77372094		0.500	0.21619294	111.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.66908169	0.77372094	0.500	0.21619294	90.6	%	75-125	05/05/2004	1854
							14.5	R	20		
CCV		M0388	0.96666611		1.00		96.7	%	90-110	05/05/2004	1906
CCB			0.00605840							05/05/2004	1916

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4E070221

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

May 14, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 14, 2004

STL LOT NUMBER: **I4E070221**
PO/CONTRACT: 224598

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on May 7, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4E070221

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224598-1 05/04/04 15:55 001				
Cadmium	341	1.0	ug/L	SW846 6020
Antimony	36.7	1.0	ug/L	SW846 6020
Thallium	13.0	1.0	ug/L	SW846 6020
224598-2 05/04/04 15:55 002				
Cadmium	320	1.0	ug/L	SW846 6020
Antimony	30.4	1.0	ug/L	SW846 6020
Thallium	13.7	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4E070221

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4E070221

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GFQ9N	001	224598-1	05/04/04	15:55
GFQ9W	002	224598-2	05/04/04	15:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4E070221

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4132408	4132259
	WATER	SW846 6010B		4131446	4131266
002	WATER	SW846 6020		4132408	4132259
	WATER	SW846 6010B		4131446	

STL CORPUS CHRISTI

Client Sample ID: 224598-1

TOTAL Metals

Lot-Sample #...: I4E070221-001 Matrix.....: WATER
Date Sampled...: 05/04/04 15:55 Date Received..: 05/07/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFQ9N1AE
		Dilution Factor: 1		Analysis Time..: 11:25	MS Run #.....: 4131266	
Prep Batch #...: 4132408						
Cadmium	341	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9N1AA
		Dilution Factor: 1		Analysis Time..: 13:48	MS Run #.....: 4132259	
Antimony	36.7	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9N1AC
		Dilution Factor: 1		Analysis Time..: 13:48	MS Run #.....: 4132259	
Thallium	13.0	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9N1AD
		Dilution Factor: 1		Analysis Time..: 13:48	MS Run #.....: 4132259	

STL CORPUS CHRISTI

Client Sample ID: 224598-2

TOTAL Metals

Lot-Sample #...: I4E070221-002 **Matrix.....:** WATER
Date Sampled...: 05/04/04 15:55 **Date Received..:** 05/07/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFQ9W1AE
		Dilution Factor: 1		Analysis Time..: 11:30	MS Run #.....:	
Prep Batch #...: 4132408						
Cadmium	320	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9W1AA
		Dilution Factor: 1		Analysis Time..: 13:54	MS Run #.....: 4132259	
Antimony	30.4	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9W1AC
		Dilution Factor: 1		Analysis Time..: 13:54	MS Run #.....: 4132259	
Thallium	13.7	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ9W1AD
		Dilution Factor: 1		Analysis Time..: 13:54	MS Run #.....: 4132259	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4E070221 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4E100000-446 **Prep Batch #...:** 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFXQ21AE
		Dilution Factor: 1				
		Analysis Time..: 11:10				
MB Lot-Sample #: I4E110000-408 **Prep Batch #...:** 4132408						
Antimony	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AC
		Dilution Factor: 1				
		Analysis Time..: 13:25				
Cadmium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AA
		Dilution Factor: 1				
		Analysis Time..: 13:25				
Thallium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AD
		Dilution Factor: 1				
		Analysis Time..: 13:25				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E070221 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E100000-446 **Prep Batch #...:** 4131446					
Bismuth	103	(80 - 120)	SW846 6010B	05/10-05/11/04	GFXQ21AJ
		Dilution Factor: 1	Analysis Time..: 01:11		
LCS Lot-Sample#: I4E110000-408 **Prep Batch #...:** 4132408					
Cadmium	99	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AE
		Dilution Factor: 1	Analysis Time..: 13:31		
Antimony	98	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AF
		Dilution Factor: 1	Analysis Time..: 13:31		
Thallium	102	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AG
		Dilution Factor: 1	Analysis Time..: 13:31		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E070221 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E100000-446 **Prep Batch #...:** 4131446							
Bismuth	0.500	0.515	mg/L	103	SW846 6010B	05/10-05/11/04	GFXQ21AJ
			Dilution Factor: 1		Analysis Time..: 01:11		
LCS Lot-Sample#: I4E110000-408 **Prep Batch #...:** 4132408							
Cadmium	50.0	49.5	ug/L	99	SW846 6020	05/11-05/13/04	GF10P1AE
			Dilution Factor: 1		Analysis Time..: 13:31		
Antimony	50.0	49.1	ug/L	98	SW846 6020-	05/11-05/13/04	GF10P1AF
			Dilution Factor: 1		Analysis Time..: 13:31		
Thallium	50.0	51.1	ug/L	102	SW846 6020	05/11-05/13/04	GF10P1AG
			Dilution Factor: 1		Analysis Time..: 13:31		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E070221 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4131446							
Bismuth	104	(75 - 125)			SW846 6010B	05/10-05/11/04	GFQ941AM
	103	(75 - 125)	0.42	(0-20)	SW846 6010B	05/10-05/11/04	GFQ941AN
		Dilution Factor: 1					
		Analysis Time..: 11:50					
		MS Run #.....: 4131266					
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4132408							
Antimony	100	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AH
	100	(80 - 120)	0.28	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AJ
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					
Cadmium	98	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AF
	100	(80 - 120)	1.0	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AG
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					
Thallium	103	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AK
	103	(80 - 120)	0.02	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AL
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E070221 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4131446									
Bismuth									
	ND	0.500	0.518	mg/L	104		SW846 6010B	05/10-05/11/04	GFQ941AM
	ND	0.500	0.516	mg/L	103	0.42	SW846 6010B	05/10-05/11/04	GFQ941AN
			Dilution Factor: 1						
			Analysis Time..: 11:50						
			MS Run #.....: 4131266						
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4132408									
Antimony									
	ND	50.0	50.6	ug/L	100		SW846 6020	05/11-05/13/04	GFQ941AH
	ND	50.0	50.5	ug/L	100	0.28	SW846 6020	05/11-05/13/04	GFQ941AJ
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						
Cadmium									
	21.5	50.0	70.7	ug/L	98		SW846 6020	05/11-05/13/04	GFQ941AF
	21.5	50.0	71.4	ug/L	100	1.0	SW846 6020	05/11-05/13/04	GFQ941AG
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						
Thallium									
	ND	50.0	52.2	ug/L	103		SW846 6020	05/11-05/13/04	GFQ941AK
	ND	50.0	52.2	ug/L	103	0.02	SW846 6020	05/11-05/13/04	GFQ941AL
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I4E070221

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 5-7-04/0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 5-7-04/0900

CLIENT/PROJECT: STL - Corpus Christi

SAMPLES LOGGED IN: BJ

LOG-IN REVIEWED: LT

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: LT **IR THERMOMETER #:** R5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: KT

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: Mark Ball Date: 5/17/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

I4E070221

No. 23724

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS:
PHONE: 361/289-2673	PHONE: Same
FAX: 361/289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (Sb, Cd, Tl)	6010 (Ti)	REMARKS/PRECAUTIONS
	224598-1	5/4/04	15:55	Water	P500	HNO3		X	X	Attn:
	224598-2	"	15:55	"	"	"		X	X	Neal Salcher
										ASARCO Pricing
										2°C/LT/5-7-04

LAB JOB NO.

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7-day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	5/6/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1540	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	5-7-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Luke Tenner/STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- X - Indicates that a surrogate recovery is outside the specified quality control limits.
- Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
- * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
- ^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

- B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
- J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Encycle Corpus Christi, TX

Laboratory: STL

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

8.9°C
Just sampled
224598

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Cyanide (1 qt. poly w/ NaOH)	Total Sb, As, Ba, Bi, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 1-pt. poly w/ HNO3)					Remarks	Total
Bin B	L	5-4-04 3:55		1	2					Need low detection limits	3
Bin B Duplicate	L	↓ 3:55		1	2						3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 6

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 5/4/04	Time 4:16	Seal Intact?
Received by: [signature]	Organization: STL-CC	Date 5/4/04	Time 16:16	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus. Invoice to Rich Marcus for RCRA closure. Need low detection limits. Normal turnaround time.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277968 **Report Date:** 09/20/04
Project ID: Encycle RCRA Closure
Sample Name: BIN B
Sample Matrix: water
Date Received: 09/14/2004 **Time:** 16:30
Date Sampled: 09/14/2004 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/15/04	3015	---	---	---	---	---
Antimony/ICP	0.009	mg/L	0.006	<0.006	09/17/04	6010 & 200.7	---	2.39	93.92	99.8	101.98
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/17/04	6010 & 200.7	---	0.95	95.52	100.32	98.84
Cadmium/ICP	0.0036	mg/L	0.002	<0.002	09/17/04	6010 & 200.7	---	0.23	95.29	100	98.92
Copper/ICP	0.0485	mg/L	0.01	<0.01	09/17/04	6010 & 200.7	---	0.19	94.81	97.98	98.46
Lead/ICP	0.0304	mg/L	0.01	<0.01	09/17/04	6010 & 200.7	---	0.25	95.23	102.02	100.46
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	09/20/04	279.2&7841	---	0.85	110.09	115.5	113.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277969 **Report Date:** 09/17/04
Project ID: Encycle RCRA Closure
Sample Name: BIN B
Sample Matrix: water
Date Received: 09/14/2004 **Time:** 16:30
Date Sampled: 09/14/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/15/04	3015	---	---	---	---	---
Antimony/ICP	<0.006	mg/L	0.006	<0.006	09/17/04	6010 & 200.7	J	2.39	93.92	99.8	101.98
Cadmium/ICP	0.0024	mg/L	0.002	<0.002	09/17/04	6010 & 200.7	---	0.23	95.29	100	98.92
Lead/ICP	0.0924	mg/L	0.01	<0.01	09/17/04	6010 & 200.7	---	0.25	95.23	102.02	100.46

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277969 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN B

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Antimony/ICP	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

www.analysysinc.com

10555

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name ENCYCLE/ARCADIS

Address [redacted] 711 N. CARANCAHUA

City CC State TX Zip 78475

ATTN: RICH MARCUS / KEN BRADNER

Phone 883-1357 Fax 883 7565

Bill To (if different):

Company Name ENCYCLE RCRA Closures

Address _____

City _____ State _____ Zip _____

ATTN: RICH MARCUS

Phone _____ Fax _____

Project Name/PO#: _____ Sampler J. CLEMENTS

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TPH AUSTIN Aroma, Cations, Chlor, Lead, Manitol	Total Cadmium, Lead, Sb, Tl	RUSH TAT (Pre-Scheduled)	Standard TAT
BIN B	9-14-04	1200	1	X		277968	X	X											X			
BIN B	↓	1680	1	X		277969	X	X												X		

Special Instructions (such as special QC requirements, lists, methods, etc...) NEED 3-DAY TURNAROUND

ANALYZE 1600 SAMPLE FOR CLEPS ONLY

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C) T: 2-2°C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
J. CLEMENTS	ARCADIS	9-14-04	1630	L Flowmell	ASI	9-14-04	1630	NO	
				L Flynn	ASI	9/15/04	0850		

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278005 **Report Date:** 09/20/04
Project ID: Encycle RCRA Closure
Sample Name: BIN B
Sample Matrix: water
Date Received: 09/15/2004 **Time:** 14:10
Date Sampled: 09/15/2004 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/16/04	3015	---	---	---	---	---
Antimony/ICP	<0.006	mg/L	0.006	<0.006	09/20/04	6010 & 200.7	---	0.14	105.44	102.68	91.39
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/20/04	6010 & 200.7	---	0.88	97.2	102.28	87.46
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/20/04	6010 & 200.7	J	1.85	101.43	104.6	90.24
Copper/ICP	0.0345	mg/L	0.01	<0.01	09/20/04	6010 & 200.7	---	3.1	103.03	102.36	92.9
Lead/ICP	0.0268	mg/L	0.01	<0.01	09/20/04	6010 & 200.7	---	1.11	100.96	104.8	91.23
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	09/20/04	279.2&7841	---	0.85	110.09	115.5	113.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 278005 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN B

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278006 **Report Date:** 09/20/04
Project ID: Encycle RCRA Closure
Sample Name: BIN B
Sample Matrix: water
Date Received: 09/15/2004 **Time:** 14:10
Date Sampled: 09/15/2004 **Time:** 15:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/16/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/20/04	6010 & 200.7	---	0.89	99.21	105	95.91
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/20/04	6010 & 200.7	J	1.32	97.68	103.98	96.86

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 278006 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN B

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Lead/ICP	J	See J-flag discussion above.

Notes:

10562

CHAIN-C CUSTODY

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AnalySys Inc.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS / ENCYCLE
Address 711 N CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRADNER & RICH MARCUS
Phone 8831353 Fax 8837565
Project Name/PO#: _____ Sampler _____

Bill To (if different):
Company Name ENCYCLE RCRA CLOSURE
Address _____
City _____ State _____ Zip _____
ATTN: RICH MARCUS
Phone _____ Fax _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL ANTIMONY, ARSENIC	CADMIUM, COPPER	LEAD & THALLIUM			TOTAL CADMIUM	& LEAD					RUSH TAT (Pre-Scheduled)	Standard TAT
BINB	9-15-04	1100	1	X		278005	X	X											X												
BINB	↓	~~[illegible]~~ 1540	1	X		278006	X	X																X							

Special Instructions (such as special QC requirements, lists, methods, etc...) NEED 3-DAY TURNAROUND; ANALYZE 1400 SAMPLE FOR Cd & Pb ONLY

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J. Clements	ARCADIS	9-15-04	1410	L Flowman	ASI	9-15-04	1410
				[illegible]	ASI	9/16/04	0830

YES	✓
NO	

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

RECEIVED
MAY 20 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224572

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/18/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

5/18/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 40

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/18/2004

Job Number.: 224572
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224572-1	BIN C	Water	05/03/2004	16:00	05/03/2004	16:13

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224572 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN C
Date Sampled.....: 05/03/2004
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 224572-1
Date Received.....: 05/03/2004
Time Received.....: 16:13

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	05/05/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/07/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	05/04/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	05/04/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	05/04/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	05/04/04	jem
SW-846 6010B	Copper (Cu), Total	0.18	0.01	mg/L	05/04/04	jem
SW-846 6010B	Lead (Pb), Total	0.08	0.01	mg/L	05/04/04	jem
SW-846 6010B	Manganese (Mn), Total	0.02	0.01	mg/L	05/04/04	jem
SW-846 6010B	Nickel (Ni), Total	0.03	0.01	mg/L	05/04/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	05/04/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	05/04/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	05/04/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/04/04	jem
SW-846 6010B	Zinc (Zn), Total	0.39	0.01	mg/L	05/04/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			05/04/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 93344 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M050504HG	0.00480		0.00500		96.0	%	90-110	05/05/2004	1559
ICB			-0.000192							05/05/2004	1602
LCS		M050504LG	0.00450		0.0050		90.0	%	85-115	05/05/2004	1605
MB			-0.000182							05/05/2004	1607
MS	224561-1	M050504HG	0.00601		0.00500	-0.000157	123.3	%	75-125	05/05/2004	1610
MSD	224561-1	M050504HG	0.00589	0.00601	0.00500	-0.000157	120.9	%	75-125	05/05/2004	1612
							2.0	R	20		
MS	224541-1	M050504HG	0.00584		0.00500	0.000074	115.3	%	75-125	05/05/2004	1618
MSD	224541-1	M050504HG	0.00549	0.00584	0.00500	0.000074	108.3	%	75-125	05/05/2004	1620
							6.2	R	20		
CCV		M050504HG	0.00506		0.00500		101.2	%	80-120	05/05/2004	1632
CCB			0.000117							05/05/2004	1634
CCV		M050504HG	0.00496		0.00500		99.2	%	80-120	05/05/2004	1654
CCB			0.000155							05/05/2004	1657

Test Method.....: EPA 9010B/9012A Batch.....: 93440 Analyst...: dev
Method Description.: Cyanide (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		050704	-0.0014							05/07/2004	1515
CCV		CN040507E	0.4078		0.4000		102.0	%	90-110	05/07/2004	1518
MB		050704	0.0006							05/07/2004	1520
LCS		CN040507P	0.0478		0.05000		95.6	%	76-117	05/07/2004	1522
LCS		CN040507Q	0.0910		0.1000		91.0	%	76-117	05/07/2004	1525
LCS		CN040507R	0.1840		0.2000		92.0	%	76-117	05/07/2004	1527
MS	224572-1	CN040507S	0.0541		0.05000	0.0057	96.8	%	75-125	05/07/2004	1535
MSD	224572-1	CN040507S	0.0552	0.0541	0.05000	0.0057	99.0	%	75-125	05/07/2004	1537
							2.0	R	20		
CCB		050704	-0.0017							05/07/2004	1557
CCV		CN040507E	0.4045		0.4000		101.1	%	90-110	05/07/2004	1600

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96577799		2.00		98.3	%	90-110	05/04/2004	1045
ICV		M0368	1.06822018		1.00		106.8	%	90-110	05/04/2004	1059
ICB			-0.0035784							05/04/2004	1134
CCV		M0388	1.03226723		1.00		103.2	%	90-110	05/04/2004	1158
CCB			-0.0026806							05/04/2004	1208
MB		3051	-0.0095740							05/04/2004	1215
LCS		M351	0.51374786		0.500		102.7	%	85-110	05/04/2004	1218
MS	224486-1	M351	0.47586561		0.500	-0.0115237	97.5	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.51598989	0.47586561	0.500	-0.0115237	105.5	%	75-125	05/04/2004	1238
							8.1	R	20		
CCV		M0388	1.03487124		1.00		103.5	%	90-110	05/04/2004	1259
CCB			-0.0003447							05/04/2004	1312

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.03896399		1.00		103.9	%	90-110	05/04/2004	1417
CCB			-0.0006298							05/04/2004	1431
MB		3010	0.00970448							05/04/2004	1438
LCS		M351	0.51519657		0.500		103.0	%	85-110	05/04/2004	1441
MB		3010	0.00141020							05/04/2004	1458
LCS		M351	0.51283547		0.500		102.6	%	85-110	05/04/2004	1505
MS	224539-8	M351	0.49594702		0.500	0.00004682	99.2	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.50540066	0.49594702	0.500	0.00004682	101.1	%	75-125	05/04/2004	1528
							1.9	R	20		
CCV		M0388	1.04029155		1.00		104.0	%	90-110	05/04/2004	1539
CCB			0.00133089							05/04/2004	1545
ICV		M0368	0.97684454		1.00		97.7	%	90-110	05/04/2004	1550
CCB			0.00276928							05/04/2004	1604
MB		3010	0.00307281							05/04/2004	1615
LCS		M351	0.52948230		0.500		105.9	%	85-110	05/04/2004	1621
MS	224536-1	M351	0.51911130		0.500	0.00127413	103.6	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.51045717	0.51911130	0.500	0.00127413	101.8	%	75-125	05/04/2004	1641
							1.7	R	20		
CCV		M0388	1.03477394		1.00		103.5	%	90-110	05/04/2004	1650
CCB			0.00084788							05/04/2004	1703
CCV		M0388	1.05699413		1.00		105.7	%	90-110	05/04/2004	1741
CCB			0.00280734							05/04/2004	1754
CCV		M0388	1.03474433		1.00		103.5	%	90-110	05/04/2004	1828
CCB			-0.0000765							05/04/2004	1842
MB		3050	0.00143180							05/04/2004	1845
LCS		M351	0.49956801		0.500		99.9	%	66-110	05/04/2004	1851
SB		M383D	1.99260906		2.31		86.3	%	66-110	05/04/2004	1857
MS	224506-1	M351	0.52834183		0.500	0.04038136	97.6	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.52839946	0.52834183	0.500	0.04038136	97.6	%	75-125	05/04/2004	1918
							0.0	R	20		
MB		3010	0.00118149							05/04/2004	1926
LCS		M351	0.49780451		0.500		99.6	%	85-110	05/04/2004	1929
CCV		M0388	1.04702110		1.00		104.7	%	90-110	05/04/2004	1934
CCB			0.00078031							05/04/2004	1948
MS	224542-1	M351	0.46740410		0.500	-0.0099790	95.5	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.49418826	0.46740410	0.500	-0.0099790	100.8	%	75-125	05/04/2004	2007
							5.6	R	20		
CCV		M0388	1.04323086		1.00		104.3	%	90-110	05/04/2004	2031
CCB			0.00047530							05/04/2004	2044
CCV		M0388	1.05363899		1.00		105.4	%	90-110	05/04/2004	2116
CCB			0.00436782							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0369	1.06824211		1.00		106.8	%	90-110	05/04/2004	1104
ICB			-0.0009429							05/04/2004	1134
CCV		M0388	1.04365974		1.00		104.4	%	90-110	05/04/2004	1158
CCB			-0.0009924							05/04/2004	1208

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3051	0.00108299							05/04/2004	1215
LCS		M351	0.53629520		0.500		107.3	%	90-110	05/04/2004	1218
MS	224486-1	M351	0.51392994		0.500	0.02198294	98.4	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.55913914	0.51392994	0.500	0.02198294	107.4	%	75-125	05/04/2004	1238
							8.4	R	20		
CCV		M0388	1.04065386		1.00		104.1	%	90-110	05/04/2004	1259
CCB			-0.0005448							05/04/2004	1312
CCV		M0388	1.03325288		1.00		103.3	%	90-110	05/04/2004	1417
CCB			-0.0005414							05/04/2004	1431
MB		3010	-0.0011169							05/04/2004	1458
LCS		M351	0.50820905		0.500		101.6	%	90-110	05/04/2004	1505
MS	224539-8	M351	0.48810438		0.500	0.01439085	94.7	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.49639028	0.48810438	0.500	0.01439085	96.4	%	75-125	05/04/2004	1528
							1.7	R	20		
CCV		M0388	1.02971564		1.00		103.0	%	90-110	05/04/2004	1539
CCB			-0.0000771							05/04/2004	1545
ICV		M0369	0.94664067		1.00		94.7	%	90-110	05/04/2004	1555
CCB			-0.0003842							05/04/2004	1604
MB		3010	-0.0002161							05/04/2004	1615
LCS		M351	0.52468845		0.500		104.9	%	90-110	05/04/2004	1621
MS	224536-1	M351	0.57569048		0.500	0.08572053	98.0	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.56818310	0.57569048	0.500	0.08572053	96.5	%	75-125	05/04/2004	1641
							1.3	R	20		
CCV		M0388	1.04084201		1.00		104.1	%	90-110	05/04/2004	1650
CCB			-0.0005319							05/04/2004	1703
CCV		M0388	1.03256477		1.00		103.3	%	90-110	05/04/2004	1741
CCB			-0.0000903							05/04/2004	1754
CCV		M0388	1.03091350		1.00		103.1	%	90-110	05/04/2004	1828
CCB			-0.0001551							05/04/2004	1842
MB		3050	-0.0005103							05/04/2004	1845
LCS		M351	0.49504283		0.500		99.0	%	58-110	05/04/2004	1851
SB		M383D	7.46435862		10.00		74.6	%	58-110	05/04/2004	1857
MS	224506-1	M351	2.62810361		0.500	2.42599174	40.4	%	75-125	05/04/2004	1912
MSD	224506-1	M351	2.66697787	2.62810361	0.500	2.42599174	48.2	%	75-125	05/04/2004	1918
							1.5	R	20		
MB		3010	-0.0002630							05/04/2004	1926
LCS		M351	0.46870385		0.500		93.7	%	90-110	05/04/2004	1929
CCV		M0388	1.03824865		1.00		103.8	%	90-110	05/04/2004	1934
CCB			0.00000010							05/04/2004	1948
MS	224542-1	M351	1.28147617		0.500	0.79707921	96.9	%	75-125	05/04/2004	2002
MSD	224542-1	M351	1.29379944	1.28147617	0.500	0.79707921	99.3	%	75-125	05/04/2004	2007
							1.0	R	20		
CCV		M0388	1.03614388		1.00		103.6	%	90-110	05/04/2004	2031
CCB			0.00003029							05/04/2004	2044
CCV		M0388	1.04074686		1.00		104.1	%	90-110	05/04/2004	2116
CCB			0.00011612							05/04/2004	2129

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96492434		2.00		98.2	%	90-110	05/04/2004	1045
ICV		M0368	1.07243812		1.00		107.2	%	90-110	05/04/2004	1059
ICB			-0.0011196							05/04/2004	1134
ICV		M368B	0.50936321		0.500		101.9	%	90-110	05/04/2004	1153
CCV		M0388	1.04489983		1.00		104.5	%	90-110	05/04/2004	1158
CCB			-0.0009454							05/04/2004	1208
MB		3051	0.00054702							05/04/2004	1215
LCS		M351	0.53343554		0.500		106.7	%	90-110	05/04/2004	1218
MS	224486-1	M351	0.49705843		0.500	0.00224977	99.0	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.53588579	0.49705843	0.500	0.00224977	106.7	%	75-125	05/04/2004	1238
							7.5	R	20		
CCV		M0388	1.04109616		1.00		104.1	%	90-110	05/04/2004	1259
CCB			-0.0011704							05/04/2004	1312
CCV		M0388	1.03718281		1.00		103.7	%	90-110	05/04/2004	1417
CCB			-0.0008865							05/04/2004	1431
MB		3010	-0.0003465							05/04/2004	1438
LCS		M351	0.51001403		0.500		102.0	%	90-110	05/04/2004	1441
MB		3010	-0.0010917							05/04/2004	1458
LCS		M351	0.50888342		0.500		101.8	%	90-110	05/04/2004	1505
MS	224539-8	M351	0.47855854		0.500	-0.0001725	95.7	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.48814005	0.47855854	0.500	-0.0001725	97.7	%	75-125	05/04/2004	1528
							2.0	R	20		
CCV		M0388	1.03444155		1.00		103.4	%	90-110	05/04/2004	1539
CCB			-0.0004354							05/04/2004	1545
ICV		M0368	0.97750831		1.00		97.8	%	90-110	05/04/2004	1550
CCB			-0.0010515							05/04/2004	1604
MB		3010	-0.0011656							05/04/2004	1615
LCS		M351	0.52712453		0.500		105.4	%	90-110	05/04/2004	1621
MS	224536-1	M351	0.50039338		0.500	0.00056369	100.0	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.49127924	0.50039338	0.500	0.00056369	98.1	%	75-125	05/04/2004	1641
							1.8	R	20		
CCV		M0388	1.04798830		1.00		104.8	%	90-110	05/04/2004	1650
CCB			-0.0006274							05/04/2004	1703
CCV		M0388	1.04125152		1.00		104.1	%	90-110	05/04/2004	1741
CCB			-0.0009926							05/04/2004	1754
CCV		M0388	1.04026585		1.00		104.0	%	90-110	05/04/2004	1828
CCB			-0.0009306							05/04/2004	1842
MB		3050	-0.0010545							05/04/2004	1845
LCS		M351	0.49101115		0.500		98.2	%	72-110	05/04/2004	1851
SB		M383D	1.69983928		2.07		82.1	%	72-110	05/04/2004	1857
MS	224506-1	M351	0.60941501		0.500	0.11120284	99.6	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.59146823	0.60941501	0.500	0.11120284	96.1	%	75-125	05/04/2004	1918
							3.0	R	20		
MB		3010	-0.0011012							05/04/2004	1926
LCS		M351	0.46801383		0.500		93.6	%	90-110	05/04/2004	1929
CCV		M0388	1.04580694		1.00		104.6	%	90-110	05/04/2004	1934
CCB			-0.0008821							05/04/2004	1948
MS	224542-1	M351	0.46929423		0.500	0.00158550	93.5	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.48524059	0.46929423	0.500	0.00158550	96.7	%	75-125	05/04/2004	2007
							3.3	R	20		
CCV		M0388	1.05008706		1.00		105.0	%	90-110	05/04/2004	2031
CCB			-0.0007869							05/04/2004	2044
CCV		M0388	1.05203499		1.00		105.2	%	90-110	05/04/2004	2116

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0008086							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96173014		2.00		98.1	%	90-110	05/04/2004	1045
ICV		M0368	1.09362569		1.00		109.4	%	90-110	05/04/2004	1059
ICB			-0.0006298							05/04/2004	1134
CCV		M0388	1.04818347		1.00		104.8	%	90-110	05/04/2004	1158
CCB			-0.0006317							05/04/2004	1208
MB		3051	-0.0008653							05/04/2004	1215
LCS		M351	0.53438444		0.500		106.9	%	90-110	05/04/2004	1218
MS	224486-1	M351	0.49834330		0.500	-0.0011045	99.9	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.53788039	0.49834330	0.500	-0.0011045	107.8	%	75-125	05/04/2004	1238
							7.6	R	20		
CCV		M0388	1.04917263		1.00		104.9	%	90-110	05/04/2004	1259
CCB			-0.0005583							05/04/2004	1312
CCV		M0388	1.04019170		1.00		104.0	%	90-110	05/04/2004	1417
CCB			-0.0007021							05/04/2004	1431
MB		3010	0.00022577							05/04/2004	1438
LCS		M351	0.47718978		0.500		95.4	%	90-110	05/04/2004	1441
MB		3010	-0.0005035							05/04/2004	1458
LCS		M351	0.51155405		0.500		102.3	%	90-110	05/04/2004	1505
MS	224539-8	M351	0.47165061		0.500	-0.0007452	94.5	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.47572892	0.47165061	0.500	-0.0007452	95.3	%	75-125	05/04/2004	1528
							0.9	R	20		
CCV		M0388	1.03285212		1.00		103.3	%	90-110	05/04/2004	1539
CCB			-0.0004921							05/04/2004	1545
ICV		M0368	0.98610342		1.00		98.6	%	90-110	05/04/2004	1550
CCB			-0.0006568							05/04/2004	1604
MB		3010	-0.0006606							05/04/2004	1615
LCS		M351	0.52475707		0.500		105.0	%	90-110	05/04/2004	1621
MS	224536-1	M351	0.47208373		0.500	-0.0008838	94.6	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.46440658	0.47208373	0.500	-0.0008838	93.1	%	75-125	05/04/2004	1641
							1.6	R	20		
CCV		M0388	1.03663184		1.00		103.7	%	90-110	05/04/2004	1650
CCB			-0.0003785							05/04/2004	1703
CCV		M0388	1.03126946		1.00		103.1	%	90-110	05/04/2004	1741
CCB			-0.0008054							05/04/2004	1754
CCV		M0388	1.02779233		1.00		102.8	%	90-110	05/04/2004	1828
CCB			-0.0004743							05/04/2004	1842
MB		3050	-0.0007813							05/04/2004	1845
LCS		M351	0.47913722		0.500		95.8	%	72-110	05/04/2004	1851
SB		M383D	1.78129500		2.10		84.8	%	72-110	05/04/2004	1857
MS	224506-1	M351	0.52755123		0.500	0.08102815	89.3	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.53063857	0.52755123	0.500	0.08102815	89.9	%	75-125	05/04/2004	1918
							0.6	R	20		
MB		3010	-0.0001100							05/04/2004	1926
LCS		M351	0.48561861		0.500		97.1	%	90-110	05/04/2004	1929

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.03495186		1.00		103.5	%	90-110	05/04/2004	1934
CCB			-0.0004218							05/04/2004	1948
MS	224542-1	M351	0.43651612		0.500	0.00059412	87.2	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.45440143	0.43651612	0.500	0.00059412	90.8	%	75-125	05/04/2004	2007
							4.0	R	20		
CCV		M0388	1.03676828		1.00		103.7	%	90-110	05/04/2004	2031
CCB			-0.0003665							05/04/2004	2044
CCV		M0388	1.04008364		1.00		104.0	%	90-110	05/04/2004	2116
CCB			-0.0005995							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98679725		2.00		99.3	%	90-110	05/04/2004	1045
ICB			-0.0015433							05/04/2004	1134
ICV		M368B	0.53341765		0.500		106.7	%	90-110	05/04/2004	1153
CCV		M0388	1.07357415		1.00		107.4	%	90-110	05/04/2004	1158
CCB			0.00036298							05/04/2004	1208
MB		3051	0.03805674							05/04/2004	1215
LCS		M351	0.58069655		0.500		116.1	%	80-120	05/04/2004	1218
MS	224486-1	M351	0.66485764		0.500	0.14063010	104.8	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.72074066	0.66485764	0.500	0.14063010	116.0	%	75-125	05/04/2004	1238
							8.1	R	20		
CCV		M0388	1.07617997		1.00		107.6	%	90-110	05/04/2004	1259
CCB			0.00157330							05/04/2004	1312
CCV		M0388	1.06288633		1.00		106.3	%	90-110	05/04/2004	1417
CCB			-0.0022550							05/04/2004	1431
MB		3010	-0.0067806							05/04/2004	1438
LCS		M351	0.52627918		0.500		105.3	%	89-112	05/04/2004	1441
MB		3010	-0.0019336							05/04/2004	1458
LCS		M351	0.53844940		0.500		107.7	%	89-112	05/04/2004	1505
MS	224539-8	M351	0.57211836		0.500	-0.0055798	115.5	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.58293364	0.57211836	0.500	-0.0055798	117.7	%	75-125	05/04/2004	1528
							1.9	R	20		
CCV		M0388	1.06598887		1.00		106.6	%	90-110	05/04/2004	1539
CCB			-0.0016565							05/04/2004	1545
ICV		M0368	1.03216730		1.00		103.2	%	90-110	05/04/2004	1550
CCB			-0.0031331							05/04/2004	1604
MB		3010	-0.0023702							05/04/2004	1615
LCS		M351	0.55880882		0.500		111.8	%	89-112	05/04/2004	1621
MS	224536-1	M351	0.53652792		0.500	-0.0030212	107.9	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.52941727	0.53652792	0.500	-0.0030212	106.5	%	75-125	05/04/2004	1641
							1.3	R	20		
CCV		M0388	1.07858962		1.00		107.9	%	90-110	05/04/2004	1650
CCB			-0.0025566							05/04/2004	1703
CCV		M0388	1.06160654		1.00		106.2	%	90-110	05/04/2004	1741
CCB			-0.0042838							05/04/2004	1754
CCV		M0388	1.07499385		1.00		107.5	%	90-110	05/04/2004	1828
CCB			-0.0040762							05/04/2004	1842

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3050	-0.0039178							05/04/2004	1845
LCS		M351	0.53813923		0.500		107.6	%	67-119	05/04/2004	1851
SB		M383D	0.84416757		0.85		99.3	%	67-119	05/04/2004	1857
MS	224506-1	M351	0.82880333		0.500	0.29130606	107.5	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.80018385	0.82880333	0.500	0.29130606	101.8	%	75-125	05/04/2004	1918
							3.5	R	20		
MB		3010	-0.0042840							05/04/2004	1926
LCS		M351	0.49984575		0.500		100.0	%	89-112	05/04/2004	1929
CCV		M0388	1.08965414		1.00		109.0	%	90-110	05/04/2004	1934
CCB			-0.0049065							05/04/2004	1948
MS	224542-1	M351	0.58000475		0.500	0.01077454	113.8	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.59422638	0.58000475	0.500	0.01077454	116.7	%	75-125	05/04/2004	2007
							2.4	R	20		
CCV		M0388	1.08610932		1.00		108.6	%	90-110	05/04/2004	2031
CCB			-0.0038042							05/04/2004	2044
CCV		M0388	1.09530801		1.00		109.5	%	90-110	05/04/2004	2116
CCB			-0.0040223							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99774120		2.00		99.9	%	90-110	05/04/2004	1045
ICB			-0.0026805							05/04/2004	1134
ICV		M368B	0.51452510		0.500		102.9	%	90-110	05/04/2004	1153
CCV		M0388	1.04364956		1.00		104.4	%	90-110	05/04/2004	1158
CCB			-0.0029331							05/04/2004	1208
MB		3051	-0.0005729							05/04/2004	1215
LCS		M351	0.53575002		0.500		107.2	%	87-112	05/04/2004	1218
MS	224486-1	M351	0.50469124		0.500	0.00941740	99.1	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.54682450	0.50469124	0.500	0.00941740	107.5	%	75-125	05/04/2004	1238
							8.0	R	20		
CCV		M0388	1.04480963		1.00		104.5	%	90-110	05/04/2004	1259
CCB			-0.0029158							05/04/2004	1312
CCV		M0388	1.04769223		1.00		104.8	%	90-110	05/04/2004	1417
CCB			-0.0034803							05/04/2004	1431
MB		3010	0.00011526							05/04/2004	1438
LCS		M351	0.49189651		0.500		98.4	%	87-112	05/04/2004	1441
MB		3010	-0.0026304							05/04/2004	1458
LCS		M351	0.51523775		0.500		103.0	%	87-112	05/04/2004	1505
MS	224539-8	M351	0.48137314		0.500	0.00087003	96.1	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.48692859	0.48137314	0.500	0.00087003	97.2	%	75-125	05/04/2004	1528
							1.1	R	20		
CCV		M0388	1.04246143		1.00		104.2	%	90-110	05/04/2004	1539
CCB			0.00035609							05/04/2004	1545
ICV		M0368	0.99696864		1.00		99.7	%	90-110	05/04/2004	1550
CCB			-0.0018289							05/04/2004	1604
MB		3010	-0.0017283							05/04/2004	1615
LCS		M351	0.53041030		0.500		106.1	%	87-112	05/04/2004	1621
MS	224536-1	M351	0.48745131		0.500	0.00242918	97.0	%	75-125	05/04/2004	1636

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224536-1	M351	0.47842482	0.48745131	0.500	0.00242918	95.2	%	75-125	05/04/2004	1641
							1.9	R	20		
CCV		M0388	1.03771035		1.00		103.8	%	90-110	05/04/2004	1650
CCB			-0.0009369							05/04/2004	1703
CCV		M0388	1.05453603		1.00		105.5	%	90-110	05/04/2004	1741
CCB			-0.0006182							05/04/2004	1754
CCV		M0388	1.03628406		1.00		103.6	%	90-110	05/04/2004	1828
CCB			-0.0011882							05/04/2004	1842
MB		3050	-0.0011410							05/04/2004	1845
LCS		M351	0.48888370		0.500		97.8	%	71-110	05/04/2004	1851
SB		M383D	1.68239605		2.04		82.5	%	71-110	05/04/2004	1857
MS	224506-1	M351	0.65626897		0.500	0.21984889	87.3	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.65566804	0.65626897	0.500	0.21984889	87.2	%	75-125	05/04/2004	1918
							0.1	R	20		
MB		3010	0.00012578							05/04/2004	1926
LCS		M351	0.48750393		0.500		97.5	%	87-112	05/04/2004	1929
CCV		M0388	1.03558157		1.00		103.6	%	90-110	05/04/2004	1934
CCB			0.00016405							05/04/2004	1948
MS	224542-1	M351	0.46202745		0.500	0.00774962	90.9	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.48246571	0.46202745	0.500	0.00774962	94.9	%	75-125	05/04/2004	2007
							4.3	R	20		
CCV		M0388	1.04678476		1.00		104.7	%	90-110	05/04/2004	2031
CCB			-0.0018444							05/04/2004	2044
CCV		M0388	1.04895055		1.00		104.9	%	90-110	05/04/2004	2116
CCB			-0.0018646							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98405658		2.00		99.2	%	90-110	05/04/2004	1045
ICV		M0368	1.09271731		1.00		109.3	%	90-110	05/04/2004	1059
ICB			-0.0008417							05/04/2004	1134
CCV		M0388	1.04507881		1.00		104.5	%	90-110	05/04/2004	1158
CCB			-0.0009147							05/04/2004	1208
MB		3051	-0.0000806							05/04/2004	1215
LCS		M351	0.53736485		0.500		107.5	%	88-110	05/04/2004	1218
MS	224486-1	M351	0.50353536		0.500	0.00508465	99.7	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.54537959	0.50353536	0.500	0.00508465	108.1	%	75-125	05/04/2004	1238
							8.0	R	20		
CCV		M0388	1.04675607		1.00		104.7	%	90-110	05/04/2004	1259
CCB			-0.0008040							05/04/2004	1312
CCV		M0388	1.03538740		1.00		103.5	%	90-110	05/04/2004	1417
CCB			-0.0009002							05/04/2004	1431
MB		3010	0.05738323							05/04/2004	1438
LCS		M351	0.53046768		0.500		106.1	%	88-110	05/04/2004	1441
MB		3010	-0.0008834							05/04/2004	1458
LCS		M351	0.51028058		0.500		102.1	%	88-110	05/04/2004	1505
MS	224539-8	M351	0.50425019		0.500	0.03823123	93.2	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.51560775	0.50425019	0.500	0.03823123	95.5	%	75-125	05/04/2004	1528
							2.2	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.04513813		1.00		104.5	%	90-110	05/04/2004	1539
CCB			-0.0008961							05/04/2004	1545
ICV		M0368	0.98526093		1.00		98.5	%	90-110	05/04/2004	1550
CCB			-0.0010210							05/04/2004	1604
MB		3010	-0.0007885							05/04/2004	1615
LCS		M351	0.53025664		0.500		106.1	%	88-110	05/04/2004	1621
MS	224536-1	M351	0.52654722		0.500	0.03503537	98.3	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.51815051	0.52654722	0.500	0.03503537	96.6	%	75-125	05/04/2004	1641
							1.6	R	20		
CCV		M0388	1.03721788		1.00		103.7	%	90-110	05/04/2004	1650
CCB			-0.0009222							05/04/2004	1703
CCV		M0388	1.03977841		1.00		104.0	%	90-110	05/04/2004	1741
CCB			-0.0010724							05/04/2004	1754
CCV		M0388	1.03563991		1.00		103.6	%	90-110	05/04/2004	1828
CCB			-0.0011246							05/04/2004	1842
MB		3050	-0.0008480							05/04/2004	1845
LCS		M351	0.51753062		0.500		103.5	%	88-110	05/04/2004	1851
SB		M383D	5.02100454		5.68		88.4	%	88-110	05/04/2004	1857
MS	224506-1	M351	1.46920575		0.500	0.95865019	102.1	%	75-125	05/04/2004	1912
MSD	224506-1	M351	1.42544119	1.46920575	0.500	0.95865019	93.4	%	75-125	05/04/2004	1918
							3.0	R	20		
MB		3010	-0.0008858							05/04/2004	1926
LCS		M351	0.47192265		0.500		94.4	%	88-110	05/04/2004	1929
CCV		M0388	1.03729379		1.00		103.7	%	90-110	05/04/2004	1934
CCB			-0.0010576							05/04/2004	1948
MS	224542-1	M351	0.80456768		0.500	0.34604957	91.7	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.81860813	0.80456768	0.500	0.34604957	94.5	%	75-125	05/04/2004	2007
							1.7	R	20		
CCV		M0388	1.04274187		1.00		104.3	%	90-110	05/04/2004	2031
CCB			-0.0008385							05/04/2004	2044
CCV		M0388	1.03757554		1.00		103.8	%	90-110	05/04/2004	2116
CCB			-0.0006253							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96671778		2.00		98.3	%	90-110	05/04/2004	1045
ICV		M0368	1.08533430		1.00		108.5	%	90-110	05/04/2004	1059
ICB			-0.0008914							05/04/2004	1134
ICV		M368B	0.51358516		0.500		102.7	%	90-110	05/04/2004	1153
CCV		M0388	1.04741403		1.00		104.7	%	90-110	05/04/2004	1158
CCB			-0.0009336							05/04/2004	1208
MB		3051	-0.0015681							05/04/2004	1215
LCS		M351	0.53006462		0.500		106.0	%	90-112	05/04/2004	1218
MS	224486-1	M351	0.49484720		0.500	-0.0005986	99.1	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.53442955	0.49484720	0.500	-0.0005986	107.0	%	75-125	05/04/2004	1238
							7.7	R	20		
CCV		M0388	1.04111190		1.00		104.1	%	90-110	05/04/2004	1259
CCB			-0.0009195							05/04/2004	1312

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.03759579		1.00		103.8	%	90-110	05/04/2004	1417
CCB			-0.0009002							05/04/2004	1431
MB		3010	0.00865186							05/04/2004	1438
LCS		M351	0.48043552		0.500		96.1	%	90-112	05/04/2004	1441
MB		3010	-0.0001338							05/04/2004	1458
LCS		M351	0.51421455		0.500		102.8	%	90-112	05/04/2004	1505
MS	224539-8	M351	0.48966368		0.500	0.00670508	96.6	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.49980452	0.48966368	0.500	0.00670508	98.6	%	75-125	05/04/2004	1528
							2.0	R	20		
CCV		M0388	1.03337496		1.00		103.3	%	90-110	05/04/2004	1539
CCB			-0.0005422							05/04/2004	1545
ICV		M0368	0.99023644		1.00		99.0	%	90-110	05/04/2004	1550
CCB			-0.0008184							05/04/2004	1604
MB		3010	0.00019678							05/04/2004	1615
LCS		M351	0.52866412		0.500		105.7	%	90-112	05/04/2004	1621
MS	224536-1	M351	0.48159813		0.500	0.00390532	95.5	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.47672622	0.48159813	0.500	0.00390532	94.6	%	75-125	05/04/2004	1641
							1.0	R	20		
CCV		M0388	1.04939287		1.00		104.9	%	90-110	05/04/2004	1650
CCB			-0.0001044							05/04/2004	1703
CCV		M0388	1.04205045		1.00		104.2	%	90-110	05/04/2004	1741
CCB			-0.0002113							05/04/2004	1754
CCV		M0388	1.03309597		1.00		103.3	%	90-110	05/04/2004	1828
CCB			-0.0002769							05/04/2004	1842
MB		3050	-0.0006041							05/04/2004	1845
MS	224506-1	M351	1.03208168		0.500	0.53471148	99.5	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.99200959	1.03208168	0.500	0.53471148	91.5	%	75-125	05/04/2004	1918
							4.0	R	20		
MB		3010	-0.0000268							05/04/2004	1926
LCS		M351	0.47124537		0.500		94.2	%	90-112	05/04/2004	1929
CCV		M0388	1.04552081		1.00		104.6	%	90-110	05/04/2004	1934
CCB			-0.0003712							05/04/2004	1948
MS	224542-1	M351	0.46862849		0.500	0.01084482	91.6	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.48415835	0.46862849	0.500	0.01084482	94.7	%	75-125	05/04/2004	2007
							3.3	R	20		
CCV		M0388	1.04501173		1.00		104.5	%	90-110	05/04/2004	2031
CCB			-0.0003002							05/04/2004	2044
CCV		M0388	1.04830523		1.00		104.8	%	90-110	05/04/2004	2116
CCB			-0.0004153							05/04/2004	2129

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96548942		2.00		98.3	%	90-110	05/04/2004	1045
ICV		M0368	1.07549864		1.00		107.5	%	90-110	05/04/2004	1059
ICB			-0.0054985							05/04/2004	1134
ICV		M3688	0.51693842		0.500		103.4	%	90-110	05/04/2004	1153
CCV		M0388	1.02840911		1.00		102.8	%	90-110	05/04/2004	1158
CCB			-0.0050024							05/04/2004	1208

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3051	0.01253270							05/04/2004	1215
LCS		M351	0.48687470		0.500		97.4	%	82-111	05/04/2004	1218
MS	224486-1	M351	0.44729413		0.500	0.00761816	87.9	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.48366259	0.44729413	0.500	0.00761816	95.2	%	75-125	05/04/2004	1238
							7.8	R	20		
CCV		M0388	1.02356889		1.00		102.4	%	90-110	05/04/2004	1259
CCB			0.00476249							05/04/2004	1312
CCV		M0388	1.02669136		1.00		102.7	%	90-110	05/04/2004	1417
CCB			0.00623772							05/04/2004	1431
MB		3010	-0.0025473							05/04/2004	1438
LCS		M351	0.49234546		0.500		98.5	%	82-111	05/04/2004	1441
MB		3010	-0.0015535							05/04/2004	1458
LCS		M351	0.49263180		0.500		98.5	%	82-111	05/04/2004	1505
MS	224539-8	M351	0.47217615		0.500	0.00188247	94.1	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.47749929	0.47217615	0.500	0.00188247	95.1	%	75-125	05/04/2004	1528
							1.1	R	20		
CCV		M0388	1.02666650		1.00		102.7	%	90-110	05/04/2004	1539
CCB			-0.0005129							05/04/2004	1545
ICV		M0368	0.98975912		1.00		99.0	%	90-110	05/04/2004	1550
CCB			-0.0097053							05/04/2004	1604
MB		3010	-0.0054420							05/04/2004	1615
LCS		M351	0.50937961		0.500		101.9	%	82-111	05/04/2004	1621
MS	224536-1	M351	0.47991825		0.500	-0.0046205	96.9	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.47927913	0.47991825	0.500	-0.0046205	96.8	%	75-125	05/04/2004	1641
							0.1	R	20		
CCV		M0388	1.02116805		1.00		102.1	%	90-110	05/04/2004	1650
CCB			-0.0096051							05/04/2004	1703
CCV		M0388	1.03355135		1.00		103.4	%	90-110	05/04/2004	1741
CCB			0.00033638							05/04/2004	1754
CCV		M0388	1.02828691		1.00		102.8	%	90-110	05/04/2004	1828
CCB			-0.0064717							05/04/2004	1842
MB		3050	-0.0066647							05/04/2004	1845
LCS		M351	0.48561405		0.500		97.1	%	80-110	05/04/2004	1851
SB		M383D	0.83446225		0.996		83.8	%	80-110	05/04/2004	1857
MS	224506-1	M351	0.49303191		0.500	0.00542081	97.5	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.49298957	0.49303191	0.500	0.00542081	97.5	%	75-125	05/04/2004	1918
							0.0	R	20		
MB		3010	-0.0029447							05/04/2004	1926
LCS		M351	0.47785619		0.500		95.6	%	82-111	05/04/2004	1929
CCV		M0388	1.03068781		1.00		103.1	%	90-110	05/04/2004	1934
CCB			0.00204159							05/04/2004	1948
MS	224542-1	M351	0.47318480		0.500	0.00381312	93.9	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.48841856	0.47318480	0.500	0.00381312	96.9	%	75-125	05/04/2004	2007
							3.2	R	20		
CCV		M0388	1.03230154		1.00		103.2	%	90-110	05/04/2004	2031
CCB			-0.0039660							05/04/2004	2044
CCV		M0388	1.04829896		1.00		104.8	%	90-110	05/04/2004	2116
CCB			-0.0070264							05/04/2004	2129

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	0.97907257		1.0		97.9	%	90-110	05/04/2004	1045
ICV		M0369	1.07254745		1.00		107.3	%	90-110	05/04/2004	1104
ICB			0.00044762							05/04/2004	1134
CCV		M0388	0.52159260		0.50		104.3	%	90-110	05/04/2004	1158
CCB			0.00014870							05/04/2004	1208
MB		3051	-0.0002836							05/04/2004	1215
LCS		M351	0.26147081		0.25		104.6	%	87-110	05/04/2004	1218
MS	224486-1	M351	0.24442899		0.25	0.00011794	97.7	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.26477874	0.24442899	0.25	0.00011794	105.9	%	75-125	05/04/2004	1238
							8.0	R	20		
CCV		M0388	0.52141008		0.50		104.3	%	90-110	05/04/2004	1259
CCB			0.00054842							05/04/2004	1312
CCV		M0388	0.51889186		0.50		103.8	%	90-110	05/04/2004	1417
CCB			-0.0000632							05/04/2004	1431
MB		3010	0.00070621							05/04/2004	1458
LCS		M351	0.23847442		0.25		95.4	%	87-110	05/04/2004	1505
CCV		M0388	0.51624843		0.50		103.2	%	90-110	05/04/2004	1539
CCB			0.00059692							05/04/2004	1545
ICV		M0369	0.96430158		1.00		96.4	%	90-110	05/04/2004	1555
CCB			0.00047856							05/04/2004	1604
MB		3010	-0.0004295							05/04/2004	1615
LCS		M351	0.25155785		0.25		100.6	%	87-110	05/04/2004	1621
CCV		M0388	0.52261865		0.50		104.5	%	90-110	05/04/2004	1650
CCB			-0.0009352							05/04/2004	1703
CCV		M0388	0.51598919		0.50		103.2	%	90-110	05/04/2004	1741
CCB			-0.0001112							05/04/2004	1754
CCV		M0388	0.51952972		0.50		103.9	%	90-110	05/04/2004	1828
CCB			0.00037492							05/04/2004	1842
MB		3050	0.00026079							05/04/2004	1845
LCS		M351	0.24282898		0.25		97.1	%	81-110	05/04/2004	1851
SB		M383D	0.94427300		0.953		99.1	%	81-110	05/04/2004	1857
MS	224506-1	M351	0.25146725		0.25	-0.0023029	101.5	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.24818419	0.25146725	0.25	-0.0023029	100.2	%	75-125	05/04/2004	1918
							1.3	R	20		
MB		3010	-0.0001283							05/04/2004	1926
LCS		M351	0.23537885		0.25		94.2	%	87-110	05/04/2004	1929
CCV		M0388	0.52401683		0.50		104.8	%	90-110	05/04/2004	1934
CCB			-0.0000496							05/04/2004	1948
MS	224542-1	M351	0.25096637		0.25	0.00015982	100.3	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.23072497	0.25096637	0.25	0.00015982	92.2	%	75-125	05/04/2004	2007
							8.4	R	20		
CCV		M0388	0.52539916		0.50		105.1	%	90-110	05/04/2004	2031
CCB			-0.0001545							05/04/2004	2044
CCV		M0388	0.52863152		0.50		105.7	%	90-110	05/04/2004	2116
CCB			0.00007164							05/04/2004	2129

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.98564343		2.00		99.3	%	90-110	05/04/2004	1048
ICB			0.00412182							05/04/2004	1134
CCV		M0388	2.01401732		2.00		100.7	%	90-110	05/04/2004	1158
CCB			0.00181800							05/04/2004	1208
MB		3051	0.00495908							05/04/2004	1215
LCS		M351	1.04298129		1.00		104.3	%	83-118	05/04/2004	1218
MS	224486-1	M351	1.03013600		1.00	-0.0012856	103.1	%	75-125	05/04/2004	1233
MSD	224486-1	M351	1.05537755	1.03013600	1.00	-0.0012856	105.7	%	75-125	05/04/2004	1238
							2.4	R	20		
CCV		M0388	2.02165984		2.00		101.1	%	90-110	05/04/2004	1259
CCB			-0.0044978							05/04/2004	1312
CCV		M0388	2.01649419		2.00		100.8	%	90-110	05/04/2004	1417
CCB			-0.0051668							05/04/2004	1431
MB		3010	-0.0279875							05/04/2004	1438
LCS		M351	0.96406872		1.00		96.4	%	83-118	05/04/2004	1441
MB		3010	-0.0105033							05/04/2004	1458
LCS		M351	0.97955431		1.00		98.0	%	83-118	05/04/2004	1505
MS	224539-8	M351	0.94098205		1.00	-0.0161965	95.7	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.96504879	0.94098205	1.00	-0.0161965	98.1	%	75-125	05/04/2004	1528
							2.5	R	20		
CCV		M0388	2.01125586		2.00		100.6	%	90-110	05/04/2004	1539
CCB			0.02338279							05/04/2004	1545
CCB			-0.0099805							05/04/2004	1604
MB		3010	-0.0106145							05/04/2004	1615
LCS		M351	0.99761460		1.00		99.8	%	83-118	05/04/2004	1621
MS	224536-1	M351	0.93232963		1.00	-0.0271671	95.9	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.94744510	0.93232963	1.00	-0.0271671	97.5	%	75-125	05/04/2004	1641
							1.6	R	20		
CCV		M0388	1.99701314		2.00		99.9	%	90-110	05/04/2004	1650
CCB			-0.0058333							05/04/2004	1703
CCV		M0388	2.01786033		2.00		100.9	%	90-110	05/04/2004	1741
CCB			-0.0077234							05/04/2004	1754
CCV		M0388	1.97043121		2.00		98.5	%	90-110	05/04/2004	1828
CCB			-0.0065180							05/04/2004	1842
MB		3050	-0.0087203							05/04/2004	1845
LCS		M351	0.90939762		1.00		90.9	%	82-111	05/04/2004	1851
SB		M383D	1.18361614		1.41		83.9	%	82-111	05/04/2004	1857
MS	224506-1	M351	0.85911112		1.00	0.00189622	85.7	%	75-125	05/04/2004	1912
MSD	224506-1	M351	0.86245139	0.85911112	1.00	0.00189622	86.1	%	75-125	05/04/2004	1918
							0.4	R	20		
MB		3010	-0.0106483							05/04/2004	1926
LCS		M351	0.91409259		1.00		91.4	%	83-118	05/04/2004	1929
CCV		M0388	2.00368922		2.00		100.2	%	90-110	05/04/2004	1934
CCB			-0.0051531							05/04/2004	1948
MS	224542-1	M351	0.85424955		1.00	-0.0197690	87.4	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.91480556	0.85424955	1.00	-0.0197690	93.5	%	75-125	05/04/2004	2007
							6.8	R	20		
CCV		M0388	1.99041768		2.00		99.5	%	90-110	05/04/2004	2031
CCB			-0.0051804							05/04/2004	2044
CCV		M0388	1.99985085		2.00		100.0	%	90-110	05/04/2004	2116
CCB			-0.0062535							05/04/2004	2129

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.95033273		2.00		97.5	%	90-110	05/04/2004	1045
ICV		M0368	1.05592106		1.00		105.6	%	90-110	05/04/2004	1059
ICB			-0.0004529							05/04/2004	1134
ICV		M368B	0.49661203		0.500		99.3	%	90-110	05/04/2004	1153
CCV		M0388	1.01202221		1.00		101.2	%	90-110	05/04/2004	1158
CCB			-0.0012372							05/04/2004	1208
MB		3051	-0.0008352							05/04/2004	1215
LCS		M351	0.51362756		0.500		102.7	%	89-110	05/04/2004	1218
MS	224486-1	M351	0.47491171		0.500	0.00050314	94.9	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.51258968	0.47491171	0.500	0.00050314	102.4	%	75-125	05/04/2004	1238
							7.6	R	20		
CCV		M0388	1.00812897		1.00		100.8	%	90-110	05/04/2004	1259
CCB			-0.0012118							05/04/2004	1312
CCV		M0388	1.00060709		1.00		100.1	%	90-110	05/04/2004	1417
CCB			-0.0017106							05/04/2004	1431
MB		3010	-0.0010126							05/04/2004	1438
LCS		M351	0.49443876		0.500		98.9	%	89-110	05/04/2004	1441
MB		3010	-0.0008830							05/04/2004	1458
LCS		M351	0.49251152		0.500		98.5	%	89-110	05/04/2004	1505
MS	224539-8	M351	0.48226605		0.500	-0.0001972	96.5	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.49419580	0.48226605	0.500	-0.0001972	98.9	%	75-125	05/04/2004	1528
							2.4	R	20		
CCV		M0388	1.00872204		1.00		100.9	%	90-110	05/04/2004	1539
CCB			-0.0004825							05/04/2004	1545
ICV		M0368	0.96392982		1.00		96.4	%	90-110	05/04/2004	1550
CCB			-0.0015643							05/04/2004	1604
MB		3010	-0.0003914							05/04/2004	1615
LCS		M351	0.51506815		0.500		103.0	%	89-110	05/04/2004	1621
MS	224536-1	M351	0.50113027		0.500	0.00377098	99.5	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.49262944	0.50113027	0.500	0.00377098	97.8	%	75-125	05/04/2004	1641
							1.7	R	20		
CCV		M0388	1.03029721		1.00		103.0	%	90-110	05/04/2004	1650
CCB			-0.0001390							05/04/2004	1703
CCV		M0388	1.01822215		1.00		101.8	%	90-110	05/04/2004	1741
CCB			-0.0008657							05/04/2004	1754
CCV		M0388	1.01555124		1.00		101.6	%	90-110	05/04/2004	1828
CCB			-0.0009688							05/04/2004	1842
MB		3050	0.00011998							05/04/2004	1845
MS	224506-1	M351	1.37196007		0.500	0.83436107	107.5	%	75-125	05/04/2004	1912
MSD	224506-1	M351	1.29578523	1.37196007	0.500	0.83436107	92.3	%	75-125	05/04/2004	1918
							5.7	R	20		
MB		3010	-0.0003245							05/04/2004	1926
LCS		M351	0.46077607		0.500		92.2	%	89-110	05/04/2004	1929
CCV		M0388	1.02576865		1.00		102.6	%	90-110	05/04/2004	1934
CCB			-0.0012820							05/04/2004	1948
MS	224542-1	M351	0.47111643		0.500	-0.0007159	94.4	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.48582472	0.47111643	0.500	-0.0007159	97.3	%	75-125	05/04/2004	2007
							3.1	R	20		
CCV		M0388	1.02473173		1.00		102.5	%	90-110	05/04/2004	2031
CCB			-0.0009057							05/04/2004	2044
CCV		M0388	1.02459344		1.00		102.5	%	90-110	05/04/2004	2116
CCB			-0.0012613							05/04/2004	2129

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224572 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93294 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.95721610		2.00		97.9	%	90-110	05/04/2004	1045
ICV		M0368	1.08886326		1.00		108.9	%	90-110	05/04/2004	1059
ICB			-0.0013071							05/04/2004	1134
ICV		M368B	0.51849660		0.500		103.7	%	90-110	05/04/2004	1153
CCV		M0388	1.03740350		1.00		103.7	%	90-110	05/04/2004	1158
CCB			-0.0012396							05/04/2004	1208
MB		3051	0.01017782							05/04/2004	1215
LCS		M351	0.51189986		0.500		102.4	%	86-110	05/04/2004	1218
MS	224486-1	M351	0.69539070		0.500	0.24971007	89.1	%	75-125	05/04/2004	1233
MSD	224486-1	M351	0.77876998	0.69539070	0.500	0.24971007	105.8	%	75-125	05/04/2004	1238
							11.3	R	20		
CCV		M0388	1.02948055		1.00		102.9	%	90-110	05/04/2004	1259
CCB			0.00105544							05/04/2004	1312
CCV		M0388	1.02148679		1.00		102.1	%	90-110	05/04/2004	1417
CCB			-0.0005122							05/04/2004	1431
MB		3010	0.01071875							05/04/2004	1438
LCS		M351	0.51332697		0.500		102.7	%	86-110	05/04/2004	1441
MB		3010	-0.0004954							05/04/2004	1458
LCS		M351	0.49978441		0.500		100.0	%	86-110	05/04/2004	1505
MS	224539-8	M351	0.50978420		0.500	0.00826101	100.3	%	75-125	05/04/2004	1522
MSD	224539-9	M351	0.52329144	0.50978420	0.500	0.00826101	103.0	%	75-125	05/04/2004	1528
							2.6	R	20		
CCV		M0388	1.02540638		1.00		102.5	%	90-110	05/04/2004	1539
CCB			0.00010612							05/04/2004	1545
ICV		M0368	0.98383061		1.00		98.4	%	90-110	05/04/2004	1550
CCB			-0.0010277							05/04/2004	1604
MB		3010	0.00092698							05/04/2004	1615
LCS		M351	0.51594944		0.500		103.2	%	86-110	05/04/2004	1621
MS	224536-1	M351	0.51950943		0.500	0.00582989	102.7	%	75-125	05/04/2004	1636
MSD	224536-1	M351	0.49606917	0.51950943	0.500	0.00582989	98.0	%	75-125	05/04/2004	1641
							4.6	R	20		
CCV		M0388	1.03379555		1.00		103.4	%	90-110	05/04/2004	1650
CCB			0.00036723							05/04/2004	1703
CCV		M0388	1.02060296		1.00		102.1	%	90-110	05/04/2004	1741
CCB			-0.0004874							05/04/2004	1754
CCV		M0388	1.01786382		1.00		101.8	%	90-110	05/04/2004	1828
CCB			-0.0004904							05/04/2004	1842
MB		3050	-0.0000582							05/04/2004	1845
MS	224506-1	M351	3.19557088		0.500	2.76577105	86.0	%	75-125	05/04/2004	1912
MSD	224506-1	M351	3.04059179	3.19557088	0.500	2.76577105	55.0	%	75-125	05/04/2004	1918
							5.0	R	20		
MB		3010	0.02053073							05/04/2004	1926
LCS		M351	0.47097886		0.500		94.2	%	86-110	05/04/2004	1929
CCV		M0388	1.01708287		1.00		101.7	%	90-110	05/04/2004	1934
CCB			0.00920455							05/04/2004	1948
MS	224542-1	M351	0.84665202		0.500	0.37175820	95.0	%	75-125	05/04/2004	2002
MSD	224542-1	M351	0.86052114	0.84665202	0.500	0.37175820	97.8	%	75-125	05/04/2004	2007
							1.6	R	20		
CCV		M0388	1.04095566		1.00		104.1	%	90-110	05/04/2004	2031
CCB			0.00505516							05/04/2004	2044
CCV		M0388	1.03831846		1.00		103.8	%	90-110	05/04/2004	2116
CCB			0.00662311							05/04/2004	2129

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4E070222

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

May 14, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 17, 2004

STL LOT NUMBER: **I4E070222**
PO/CONTRACT: 224572

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the sample received under chain of custody by Severn Trent Laboratories (STL) on May 7, 2004. This sample is associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4E070222

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224572-1 05/03/04 16:00 001				
Cadmium	21.5	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4E070222

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4E070222

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GFQ94	001	224572-1	05/03/04	16:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4E070222

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4132408	4132259
	WATER	SW846 6010B		4131446	4131266

STL CORPUS CHRISTI

Client Sample ID: 224572-1

TOTAL Metals

Lot-Sample #...: I4E070222-001 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFQ941AE
		Dilution Factor: 1		Analysis Time..: 11:35	MS Run #.....: 4131266	
Prep Batch #...: 4132408						
Cadmium	**21.5**	**1.0**	**ug/L**	**SW846 6020**	**05/11-05/13/04**	**GFQ941AA**
		Dilution Factor: 1		Analysis Time..: 14:00	MS Run #.....: 4132259	
Antimony	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ941AC
		Dilution Factor: 1		Analysis Time..: 14:00	MS Run #.....: 4132259	
Thallium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GFQ941AD
		Dilution Factor: 1		Analysis Time..: 14:00	MS Run #.....: 4132259	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4E070222 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4E100000-446 **Prep Batch #...:** 4131446						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/10-05/11/04	GFXQ21AE
		Dilution Factor: 1				
		Analysis Time..: 11:10				
MB Lot-Sample #: I4E110000-408 **Prep Batch #...:** 4132408						
Antimony	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AC
		Dilution Factor: 1				
		Analysis Time..: 13:25				
Cadmium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AA
		Dilution Factor: 1				
		Analysis Time..: 13:25				
Thallium	ND	1.0	ug/L	SW846 6020	05/11-05/13/04	GF10P1AD
		Dilution Factor: 1				
		Analysis Time..: 13:25				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E070222 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E100000-446 **Prep Batch #...:** 4131446					
Bismuth	103	(80 - 120)	SW846 6010B	05/10-05/11/04	GFXQ21AJ
		Dilution Factor: 1	Analysis Time..: 01:11		
LCS Lot-Sample#: I4E110000-408 **Prep Batch #...:** 4132408					
Cadmium	99	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AE
		Dilution Factor: 1	Analysis Time..: 13:31		
Antimony	98	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AF
		Dilution Factor: 1	Analysis Time..: 13:31		
Thallium	102	(80 - 120)	SW846 6020	05/11-05/13/04	GF10P1AG
		Dilution Factor: 1	Analysis Time..: 13:31		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E070222 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E100000-446 **Prep Batch #...:** 4131446							
Bismuth	0.500	0.515	mg/L	103	SW846 6010B	05/10-05/11/04	GFXQ21AJ
			Dilution Factor: 1		Analysis Time..: 01:11		
LCS Lot-Sample#: I4E110000-408 **Prep Batch #...:** 4132408							
Cadmium	50.0	49.5	ug/L	99	SW846 6020	05/11-05/13/04	GF10P1AE
			Dilution Factor: 1		Analysis Time..: 13:31		
Antimony	50.0	49.1	ug/L	98	SW846 6020	05/11-05/13/04	GF10P1AF
			Dilution Factor: 1		Analysis Time..: 13:31		
Thallium	50.0	51.1	ug/L	102	SW846 6020	05/11-05/13/04	GF10P1AG
			Dilution Factor: 1		Analysis Time..: 13:31		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E070222 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4131446							
Bismuth	104	(75 - 125)			SW846 6010B	05/10-05/11/04	GFQ941AM
	103	(75 - 125)	0.42	(0-20)	SW846 6010B	05/10-05/11/04	GFQ941AN
		Dilution Factor: 1					
		Analysis Time..: 11:50					
		MS Run #.....: 4131266					
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4132408							
Antimony	100	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AH
	100	(80 - 120)	0.28	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AJ
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					
Cadmium	98	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AF
	100	(80 - 120)	1.0	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AG
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					
Thallium	103	(80 - 120)			SW846 6020	05/11-05/13/04	GFQ941AK
	103	(80 - 120)	0.02	(0-20)	SW846 6020	05/11-05/13/04	GFQ941AL
		Dilution Factor: 1					
		Analysis Time..: 14:19					
		MS Run #.....: 4132259					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E070222 **Matrix.....:** WATER
Date Sampled...: 05/03/04 16:00 **Date Received..:** 05/07/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4131446									
Bismuth									
	ND	0.500	0.518	mg/L	104		SW846 6010B	05/10-05/11/04	GFQ941AM
	ND	0.500	0.516	mg/L	103	0.42	SW846 6010B	05/10-05/11/04	GFQ941AN
			Dilution Factor: 1						
			Analysis Time..: 11:50						
			MS Run #.....: 4131266						
MS Lot-Sample #: I4E070222-001 **Prep Batch #...:** 4132408									
Antimony									
	ND	50.0	50.6	ug/L	100		SW846 6020	05/11-05/13/04	GFQ941AH
	ND	50.0	50.5	ug/L	100	0.28	SW846 6020	05/11-05/13/04	GFQ941AJ
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						
Cadmium									
	21.5	50.0	70.7	ug/L	98		SW846 6020	05/11-05/13/04	GFQ941AF
	21.5	50.0	71.4	ug/L	100	1.0	SW846 6020	05/11-05/13/04	GFQ941AG
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						
Thallium									
	ND	50.0	52.2	ug/L	103		SW846 6020	05/11-05/13/04	GFQ941AK
	ND	50.0	52.2	ug/L	103	0.02	SW846 6020	05/11-05/13/04	GFQ941AL
			Dilution Factor: 1						
			Analysis Time..: 14:19						
			MS Run #.....: 4132259						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4E070222

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 5-7-04/0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 5-7-04/0900

CLIENT/PROJECT: STL - Corpus Christi

SAMPLES LOGGED IN: LOG-IN REVIEWED:

Number of Shipping Containers Received with Chain of Custody: 1

BD

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO — Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: LT **IR THERMOMETER #:** R5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: LT

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 5/17/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin
I4E070222

No. 23723

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Liz McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: Same
PHONE: 361/289-2603	PHONE:
FAX: 361/289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6010 (Sb, Cd, Tl)	6020 (Bi)	REMARKS/PRECAUTIONS
	224572-1	5/3/04	16:00	Water	P500	HNO3	1	X	X	Attn: Neal Salcher ASARCO Pricing 2nd/2nd/5-7-04

LAB JOB NO.

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☑ OTHER 7-10-04

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	5/6/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Tonya Delacruz STL	TIME 1540	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	5-7-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Luke Townsend / STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- X - Indicates that a surrogate recovery is outside the specified quality control limits.
- Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
- * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
- ^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

- B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
- J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Encycle Corpus Christi, TX

Laboratory: STL

Project Manager: K. Brandner

Sampler(s)/Affiliation: A. Garcia / ARCADIS

16.3°C Just sampled 224572

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Cyanide	1 pt. Poly w/ NaOH	Total As, Sb, Ba, Bi, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, Zn, Ug (2) 1 pt. Poly w/ HNO3				Remarks	Total
Bin C	L	05-03-2004 16:00		1	2					Require low Detection limits	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 3

Relinquished by: Adrian E. Garcia	Organization: ARCADIS	Date 05/03/2004	Time 16:13	Seal Intact?
Received by: [signature]	Organization: STL-CC	Date 5/3/04	Time 1613	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: Results to K. Brandner (ARCADIS) and Rich Marcus (Encycle). Invoice to Rich Marcus for RCRA closure.

Need low Detection limits. Normal turnaround time.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277388 **Report Date:** 08/31/04
Project ID:
Sample Name: Bin C
Sample Matrix: water
Date Received: 08/26/2004 **Time:** 12:35
Date Sampled: 08/26/2004 **Time:** 12:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	08/27/04	3015	---	---	---	---	---
Cadmium/ICP	0.0053	mg/L	0.002	<0.002	08/31/04	6010 & 200.7	---	0.18	100.08	103.5	92.64
Lead/ICP	0.0938	mg/L	0.01	<0.01	08/31/04	6010 & 200.7	---	0.3	94.86	104.42	92.78

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name ARCADIS / ENCYCLE
Address 711 N. CARANCAHUA
City CC. State TX Zip 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone _____ Fax _____

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address _____
City _____ State ____ Zip _____
ATTN: RICH MARCUS
Phone _____ Fax _____

Rush Status (must be confirmed with lab mgr.): _____
Project Name/PO#: _____ Sampler: JACOB CLEMENTS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL CADMIUM (Cd)	% LEAD (Pb)	LOTPOLY w/ HNO3						Comments
BINC	8-26-04	1215	1		X		277388	1								NEED 5 DAY
																TURNAROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	8-26-04	1235	M. Will	ASI	8/26/04	1235
				[illegible]	ASI	8/27/04	0835

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277404 **Report Date:** 09/07/04
Project ID:
Sample Name: Bin C
Sample Matrix: water
Date Received: 08/26/2004 **Time:** 16:10
Date Sampled: 08/26/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/02/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0053**	mg/L	0.002	<0.002	09/07/04	6010 & 200.7	---	0.97	93.02	98.9	86.9
Lead/ICP	**0.0693**	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	0.57	94.67	100.56	85.2

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN OF-CUSTODY

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(512) 444-5896

Send Reports To:
Company Name ARCADIS / ENCYCLE
Address 711 N. CARANCAHUA
City C.C. State TX Zip 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone 883-1353 Fax 883-7565

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler: JACOB CLEMENTS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL CADMIUM & LEAD (Cd & Pb)	1 pt POLY w/ HNO_3							Comments
B/NC	8-26-04	1600	1		X		277404	1	← analyze per R. Marcus							HOLD PENDING NOTIFICATION FROM KEN BRADNER

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	8-26-04	1610	[illegible]	ASI	8-26-04	1610
				[illegible]	ASI	8/27/04	0835

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278039 **Report Date:** 09/20/04
Project ID: Encycle RCRA Closure
Sample Name: BIN C
Sample Matrix: water
Date Received: 09/16/2004 **Time:** 16:15
Date Sampled: 09/16/2004 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/17/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/20/04	6010 & 200.7	J	1.85	101.43	104.6	90.24
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/20/04	6010 & 200.7	J	1.11	100.96	104.8	91.23

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Respectfully Submitted,

Dale Wagner

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Exceptions Report:

Report #/Lab ID#: 278039 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN C

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278040 **Report Date:** 09/20/04
Project ID: Encycle RCRA Closure
Sample Name: BIN C
Sample Matrix: water
Date Received: 09/16/2004 **Time:** 16:15
Date Sampled: 09/16/2004 **Time:** 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/17/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/20/04	6010 & 200.7	---	1.85	101.43	104.6	90.24
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/20/04	6010 & 200.7	J	1.11	100.96	104.8	91.23

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Respectfully Submitted,

Dale Wagner

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Exceptions Report:

Report #/Lab ID#: 278040 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN C

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Lead/ICP	J	See J-flag discussion above.

Notes: _____

10577

CHAIN-C USTODY

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ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

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Send Reports To:

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Address: 711 N CARANCAHUA
City: CC State: TX Zip: 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone: 883 1353 Fax: 883 7565

Bill To (if different):

Company Name: ENCYCLE RCRA CLOSURE
Address:
City: State: Zip:
ATTN: RICH MARCUS
Phone: Fax:

Project Name/PO#: Sampler: J. CLEMENTS

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TPH 1664	RUSH TAT (Pre-Scheduled)	Standard TAT
BNC	9-16-04	1100	1	X		278039	X	X													
BNC	"	1500	1	X		278040	X	X													

Special Instructions (such as special QC requirements, lists, methods, etc...): NEED 3-DAY TURN AROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
J. CLEMENTS	ARCADIS	9-16-04	1615	M. Will	ASI	9/16/04	1615	NO	
				D. Flynn	ASI	9/17/04	0840		

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SEVERN TRENT STL

RECEIVED
MAY 20 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224531

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/18/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

5/18/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 49

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/18/2004

Job Number.: 224531
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224531-1	BIN D	Water	04/29/2004	15:45	04/29/2004	16:27
224531-2	BIN E	Water	04/29/2004	15:55	04/29/2004	16:27

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224531 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN D
Date Sampled.....: 04/29/2004
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 224531-1
Date Received.....: 04/29/2004
Time Received.....: 16:27

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/30/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/03/04	dev
SW-846 6010B	Arsenic (As), Total	0.02	0.01	mg/L	05/03/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	05/03/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	05/03/04	jem
SW-846 6010B	Cobalt (Co), Total	0.02	0.01	mg/L	05/03/04	jem
SW-846 6010B	Copper (Cu), Total	0.20	0.01	mg/L	05/03/04	jem
SW-846 6010B	Lead (Pb), Total	0.43	0.01	mg/L	05/03/04	jem
SW-846 6010B	Manganese (Mn), Total	0.23	0.01	mg/L	05/03/04	jem
SW-846 6010B	Nickel (Ni), Total	5.61	0.01	mg/L	05/03/04	jem
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	05/03/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	05/03/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	05/03/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/03/04	jem
SW-846 6010B	Zinc (Zn), Total	8.30	0.01	mg/L	05/03/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/30/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224531 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN E
Date Sampled.....: 04/29/2004
Time Sampled.....: 15:55
Sample Matrix.....: Water

Laboratory Sample ID: 224531-2
Date Received.....: 04/29/2004
Time Received.....: 16:27

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/30/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	05/03/04	dev
SW-846 6010B	Arsenic (As), Total	0.03	0.01	mg/L	05/05/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	05/05/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Cobalt (Co), Total	0.06	0.01	mg/L	05/05/04	jem
SW-846 6010B	Copper (Cu), Total	0.53	0.01	mg/L	05/05/04	jem
SW-846 6010B	Lead (Pb), Total	1.04	0.01	mg/L	05/05/04	jem
SW-846 6010B	Manganese (Mn), Total	0.26	0.01	mg/L	05/05/04	jem
SW-846 6010B	Nickel (Ni), Total	2.21	0.01	mg/L	05/05/04	jem
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	05/05/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	05/05/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	05/05/04	jem
SW-846 6010B	Zinc (Zn), Total	15.3	0.01	mg/L	05/05/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/30/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 93181 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M043004HG	0.00490		0.00500		98.0	%	90-110	04/30/2004	1540
ICB			-0.000130							04/30/2004	1543
LCS		M043004LG	0.00492		0.0050		98.4	%	85-115	04/30/2004	1550
MB			-0.000156							04/30/2004	1554
CCV		M043004HG	0.00408		0.00500		81.6	%	80-120	04/30/2004	1613
CCB			-0.000199							04/30/2004	1617
MS	224504-1	M043004HG	0.00422		0.00500	-0.000363	91.7	%	75-125	04/30/2004	1622
MSD	224504-1	M043004HG	0.00433	0.00422	0.00500	-0.000363	93.9	%	75-125	04/30/2004	1624
							2.6	R	20		
CCV		M043004HG	0.00478		0.00500		95.6	%	80-120	04/30/2004	1638
CCB			-0.000072							04/30/2004	1645
CCV		M043004HG	0.00509		0.00500		101.8	%	80-120	04/30/2004	1707
CCB			0.000177							04/30/2004	1711
MS	224456-1	M043004HG	0.00500		0.00500	-0.000228	104.6	%	75-125	04/30/2004	1726
MSD	224456-1	M043004HG	0.00502	0.00500	0.00500	-0.000228	105.0	%	75-125	04/30/2004	1728
							0.4	R	20		
CCV		M043004HG	0.00526		0.00500		105.2	%	80-120	04/30/2004	1744
CCB			0.000137							04/30/2004	1747

Test Method.....: EPA 9010B/9012A Batch.....: 93237 Analyst...: dev
Method Description.: Cyanide (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		050304	-0.0014							05/03/2004	1145
CCV		CN040503E	0.4262		0.4000		106.5	%	90-110	05/03/2004	1147
MB		050304	0.0017							05/03/2004	1148
LCS		CN040503P	0.0489		0.05000		97.8	%	76-117	05/03/2004	1150
LCS		CN040503Q	0.0953		0.1000		95.3	%	76-117	05/03/2004	1152
LCS		CN040503R	0.1825		0.2000		91.2	%	76-117	05/03/2004	1154
MS	224531-2	CN040503S	0.0569		0.05000	0.0069	100.0	%	75-125	05/03/2004	1202
MSD	224531-2	CN040503S	0.0588	0.0569	0.05000	0.0069	103.8	%	75-125	05/03/2004	1204
							3.3	R	20		
CCB		040503	0.0006							05/03/2004	1211
CCV		CN040503E	0.4054		0.4000		101.3	%	90-110	05/03/2004	1213

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.00781655		2.00		100.4	%	90-110	05/03/2004	1134
ICV		M0368	0.99153800		1.00		99.2	%	90-110	05/03/2004	1148
ICB			-0.0069740							05/03/2004	1221
ICB			-0.0030295							05/03/2004	1239
CCV		M0388	0.95935208		1.00		95.9	%	90-110	05/03/2004	1248
CCB			-0.0040609							05/03/2004	1302
MB		3010	-0.0041167							05/03/2004	1305
LCS		M351	0.46175046		0.500		92.4	%	85-110	05/03/2004	1312

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224500-1	M351	0.45111383		0.500	-0.0042723	91.1	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.44650579	0.45111383	0.500	-0.0042723	90.2	%	75-125	05/03/2004	1333
							1.0	R	20		
CCV		M0388	0.95666151		1.00		95.7	%	90-110	05/03/2004	1348
CCB			-0.0020921							05/03/2004	1402
CCV		M0388	0.94162899		1.00		94.2	%	90-110	05/03/2004	1448
CCB			-0.0025560							05/03/2004	1454
CCB			-0.0017638							05/03/2004	1457
CCV		M0388	0.95091299		1.00		95.1	%	90-110	05/03/2004	1551
CCB			0.00037823							05/03/2004	1604
MB		3010	-0.0024423							05/03/2004	1613
LCS		M351	0.47038895		0.500		94.1	%	85-110	05/03/2004	1620
MS	224513-1	M351	0.46280992		0.500	0.00265043	92.0	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.47672042	0.46280992	0.500	0.00265043	94.8	%	75-125	05/03/2004	1644
							3.0	R	20		
CCV		M0388	0.94430521		1.00		94.4	%	90-110	05/03/2004	1658
CCB			-0.0015656							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.95569028		2.00		97.8	%	90-110	05/05/2004	1029
ICV		M0368	0.95616172		1.00		95.6	%	90-110	05/05/2004	1044
ICV		M0380	0.95382687		1.00		95.4	%	90-110	05/05/2004	1100
ICB			-0.0048939							05/05/2004	1117
CCB			-0.0048559							05/05/2004	1137
CCV		M0388	1.00567766		1.00		100.6	%	90-110	05/05/2004	1148
CCB			-0.0004871							05/05/2004	1159
MB		3051	-0.0048135							05/05/2004	1205
LCS		M351	0.48736401		0.500		97.5	%	85-110	05/05/2004	1208
MS	224486-1	M351	0.45701159		0.500	-0.0075624	92.9	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.49244639	0.45701159	0.500	-0.0075624	100.0	%	75-125	05/05/2004	1229
							7.5	R	20		
MB		3010	-0.0016743							05/05/2004	1237
LCS		M351	0.48896389		0.500		97.8	%	85-110	05/05/2004	1243
CCV		M0388	1.00062441		1.00		100.1	%	90-110	05/05/2004	1249
CCB			-0.0022261							05/05/2004	1302
CCV		M0388	0.99964663		1.00		100.0	%	90-110	05/05/2004	1352
CCB			-0.0031821							05/05/2004	1402
CCV		M0388	1.00580250		1.00		100.6	%	90-110	05/05/2004	1443
CCB			-0.0009346							05/05/2004	1456
MB		3010	0.00006258							05/05/2004	1516
LCS		M351	0.48317577		0.500		96.6	%	85-110	05/05/2004	1522
MSD	224561-1	M351	0.47953916	0.48338492	0.500	0.00273780	95.4	%	75-125	05/05/2004	1621
							0.8	R	20		
CCV		M0388	0.99484857		1.00		99.5	%	90-110	05/05/2004	1627
CCB			0.00202857							05/05/2004	1637
CCV		M0388	0.99293318		1.00		99.3	%	90-110	05/05/2004	1700
CCB			0.00261838							05/05/2004	1711

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0007120							05/05/2004	1717
LCS		M351	0.47956502		0.500		95.9	%	85-110	05/05/2004	1724
MS	224585-2	M351	0.49125765		0.500	0.01172496	95.9	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.49868050	0.49125765	0.500	0.01172496	97.4	%	75-125	05/05/2004	1744
							1.5	R	20		
CCV		M0388	0.98615475		1.00		98.6	%	90-110	05/05/2004	1801
CCB			-0.0016239							05/05/2004	1812
MB		3050	0.00226177							05/05/2004	1818
LCS		M351	0.48339785		0.500		96.7	%	66-110	05/05/2004	1825
SB		M383D	2.07401875		2.31		89.8	%	66-110	05/05/2004	1830
MS	224573-1	M351	0.58224755		0.500	0.02191838	112.1	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.49343100	0.58224755	0.500	0.02191838	94.3	%	75-125	05/05/2004	1854
							16.5	R	20		
CCV		M0388	1.00080141		1.00		100.1	%	90-110	05/05/2004	1906
CCB			-0.0037732							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0369	0.99977766		1.00		100.0	%	90-110	05/03/2004	1153
ICB			-0.0022526							05/03/2004	1221
ICB			-0.0025693							05/03/2004	1239
CCV		M0388	0.97977816		1.00		98.0	%	90-110	05/03/2004	1248
CCB			-0.0023095							05/03/2004	1302
MB		3010	-0.0027583							05/03/2004	1305
LCS		M351	0.46786560		0.500		93.6	%	90-110	05/03/2004	1312
MS	224500-1	M351	0.68924649		0.500	0.26880987	84.1	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.70684253	0.68924649	0.500	0.26880987	87.6	%	75-125	05/03/2004	1333
							2.5	R	20		
CCV		M0388	0.97803115		1.00		97.8	%	90-110	05/03/2004	1348
CCB			-0.0022141							05/03/2004	1402
CCV		M0388	0.95321683		1.00		95.3	%	90-110	05/03/2004	1448
CCB			-0.0025451							05/03/2004	1454
CCB			-0.0021084							05/03/2004	1457
CCV		M0388	0.97022382		1.00		97.0	%	90-110	05/03/2004	1551
CCB			-0.0021068							05/03/2004	1604
MB		3010	-0.0026205							05/03/2004	1613
LCS		M351	0.47903599		0.500		95.8	%	90-110	05/03/2004	1620
MS	224513-1	M351	0.60619694		0.500	0.15080515	91.1	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.61737601	0.60619694	0.500	0.15080515	93.3	%	75-125	05/03/2004	1644
							1.8	R	20		
CCV		M0388	0.94993832		1.00		95.0	%	90-110	05/03/2004	1658
CCB			-0.0018483							05/03/2004	1711

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0369	0.94698824		1.00		94.7	%	90-110	05/05/2004	1049
ICB			-0.0010142							05/05/2004	1117
ICV		M0369	0.96112721		1.00		96.1	%	90-110	05/05/2004	1134
CCB			-0.0006626							05/05/2004	1137
CCV		M0388	1.03715270		1.00		103.7	%	90-110	05/05/2004	1148
CCB			-0.0009881							05/05/2004	1159
MB		3051	-0.0016015							05/05/2004	1205
LCS		M351	0.51981037		0.500		104.0	%	90-110	05/05/2004	1208
MS	224486-1	M351	0.50291328		0.500	0.02331786	95.9	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.54767480	0.50291328	0.500	0.02331786	104.9	%	75-125	05/05/2004	1229
							8.5	R	20		
MB		3010	-0.0014729							05/05/2004	1237
LCS		M351	0.50565187		0.500		101.1	%	90-110	05/05/2004	1243
CCV		M0388	1.03744330		1.00		103.7	%	90-110	05/05/2004	1249
CCB			-0.0007187							05/05/2004	1302
CCV		M0388	1.02747295		1.00		102.7	%	90-110	05/05/2004	1352
CCB			-0.0009708							05/05/2004	1402
CCV		M0388	1.02381418		1.00		102.4	%	90-110	05/05/2004	1443
CCB			-0.0009294							05/05/2004	1456
MB		3010	-0.0014720							05/05/2004	1516
LCS		M351	0.49656935		0.500		99.3	%	90-110	05/05/2004	1522
MSD	224561-1	M351	0.50107559	0.50797799	0.500	0.02935631	94.3	%	75-125	05/05/2004	1621
							1.4	R	20		
CCV		M0388	0.99973890		1.00		100.0	%	90-110	05/05/2004	1627
CCB			-0.0007053							05/05/2004	1637
CCV		M0388	1.00886808		1.00		100.9	%	90-110	05/05/2004	1700
CCB			-0.0010016							05/05/2004	1711
MB		3010	-0.0015640							05/05/2004	1717
LCS		M351	0.48887438		0.500		97.8	%	90-110	05/05/2004	1724
MS	224585-2	M351	1.29337762		0.500	0.82640564	93.4	%	75-125	05/05/2004	1739
MSD	224585-2	M351	1.29724673	1.29337762	0.500	0.82640564	94.2	%	75-125	05/05/2004	1744
							0.3	R	20		
CCV		M0388	1.00210430		1.00		100.2	%	90-110	05/05/2004	1801
CCB			-0.0011433							05/05/2004	1812
MB		3050	-0.0016204							05/05/2004	1818
LCS		M351	0.48754470		0.500		97.5	%	58-110	05/05/2004	1825
SB		M383D	8.50352687		10.00		85.0	%	58-110	05/05/2004	1830
MS	224573-1	M351	3.98133132		0.500	3.73211187	49.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	4.10673315	3.98133132	0.500	3.73211187	74.9	%	75-125	05/05/2004	1854
							3.1	R	20		
CCV		M0388	1.01697339		1.00		101.7	%	90-110	05/05/2004	1906
CCB			-0.0009856							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04595912		2.00		102.3	%	90-110	05/03/2004	1134
ICV		M0368	0.99438053		1.00		99.4	%	90-110	05/03/2004	1148
ICB			-0.0026296							05/03/2004	1221

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB			-0.0025507							05/03/2004	1239
ICV		M368B	0.48359181		0.500		96.7	%	90-110	05/03/2004	1243
CCV		M0388	0.97387128		1.00		97.4	%	90-110	05/03/2004	1248
CCB			-0.0026408							05/03/2004	1302
MB		3010	-0.0026868							05/03/2004	1305
LCS		M351	0.46270899		0.500		92.5	%	90-110	05/03/2004	1312
MS	224500-1	M351	0.43242711		0.500	0.00051180	86.4	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.43462486	0.43242711	0.500	0.00051180	86.8	%	75-125	05/03/2004	1333
							0.5	R	20		
CCV		M0388	0.97251150		1.00		97.3	%	90-110	05/03/2004	1348
CCB			-0.0026742							05/03/2004	1402
CCV		M0388	0.94791905		1.00		94.8	%	90-110	05/03/2004	1448
CCB			-0.0024638							05/03/2004	1454
CCB			-0.0026526							05/03/2004	1457
CCV		M0388	0.96688049		1.00		96.7	%	90-110	05/03/2004	1551
CCB			-0.0025053							05/03/2004	1604
MB		3010	-0.0026003							05/03/2004	1613
LCS		M351	0.47679846		0.500		95.4	%	90-110	05/03/2004	1620
MS	224513-1	M351	0.46097164		0.500	0.00280497	91.6	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.47144673	0.46097164	0.500	0.00280497	93.7	%	75-125	05/03/2004	1644
							2.2	R	20		
CCV		M0388	0.94938483		1.00		94.9	%	90-110	05/03/2004	1658
CCB			-0.0025007							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96453692		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.97163402		1.00		97.2	%	90-110	05/05/2004	1044
ICV		M0380	0.97109500		1.00		97.1	%	90-110	05/05/2004	1100
ICB			-0.0007572							05/05/2004	1117
CCB			-0.0009783							05/05/2004	1137
ICV		M368B	0.47046803		0.500		94.1	%	90-110	05/05/2004	1143
CCV		M0388	1.03035539		1.00		103.0	%	90-110	05/05/2004	1148
CCB			-0.0006048							05/05/2004	1159
MB		3051	-0.0008930							05/05/2004	1205
LCS		M351	0.51715111		0.500		103.4	%	90-110	05/05/2004	1208
MS	224486-1	M351	0.48739023		0.500	0.00231446	97.0	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52923123	0.48739023	0.500	0.00231446	105.4	%	75-125	05/05/2004	1229
							8.2	R	20		
MB		3010	-0.0006434							05/05/2004	1237
LCS		M351	0.50253966		0.500		100.5	%	90-110	05/05/2004	1243
CCV		M0388	1.03402085		1.00		103.4	%	90-110	05/05/2004	1249
CCB			-0.0009861							05/05/2004	1302
CCV		M0388	1.02639496		1.00		102.6	%	90-110	05/05/2004	1352
CCB			-0.0006015							05/05/2004	1402
CCV		M0388	1.02526716		1.00		102.5	%	90-110	05/05/2004	1443
CCB			-0.0009999							05/05/2004	1456
MB		3010	-0.0013690							05/05/2004	1516

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M351	0.49247014		0.500		98.5	%	90-110	05/05/2004	1522
MSD	224561-1	M351	0.47669702	0.48080263	0.500	0.00013956	95.3	%	75-125	05/05/2004	1621
							0.9	R	20		
CCV		M0388	0.99967585		1.00		100.0	%	90-110	05/05/2004	1627
CCB			-0.0006089							05/05/2004	1637
CCV		M0388	1.01255221		1.00		101.3	%	90-110	05/05/2004	1700
CCB			-0.0005565							05/05/2004	1711
MB		3010	-0.0011837							05/05/2004	1717
LCS		M351	0.48880917		0.500		97.8	%	90-110	05/05/2004	1724
MS	224585-2	M351	0.48389036		0.500	0.00189239	96.4	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.48491834	0.48389036	0.500	0.00189239	96.6	%	75-125	05/05/2004	1744
							0.2	R	20		
CCV		M0388	1.00346916		1.00		100.3	%	90-110	05/05/2004	1801
CCB			-0.0006176							05/05/2004	1812
MB		3050	-0.0009199							05/05/2004	1818
LCS		M351	0.48670975		0.500		97.3	%	72-110	05/05/2004	1825
SB		M383D	1.79803887		2.07		86.9	%	72-110	05/05/2004	1830
MS	224573-1	M351	0.62414403		0.500	0.04526632	115.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.53520036	0.62414403	0.500	0.04526632	98.0	%	75-125	05/05/2004	1854
							15.3	R	20		
CCV		M0388	1.01881834		1.00		101.9	%	90-110	05/05/2004	1906
CCB			-0.0005755							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.03069704		2.00		101.5	%	90-110	05/03/2004	1134
ICV		M0368	1.01334481		1.00		101.3	%	90-110	05/03/2004	1148
ICB			-0.0024398							05/03/2004	1221
ICB			-0.0023956							05/03/2004	1239
CCV		M0388	0.97882891		1.00		97.9	%	90-110	05/03/2004	1248
CCB			-0.0025875							05/03/2004	1302
MB		3010	-0.0023657							05/03/2004	1305
LCS		M351	0.46758520		0.500		93.5	%	90-110	05/03/2004	1312
MS	224500-1	M351	0.39014942		0.500	-0.0007039	78.2	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.38779933	0.39014942	0.500	-0.0007039	77.7	%	75-125	05/03/2004	1333
							0.6	R	20		
CCV		M0388	0.98065341		1.00		98.1	%	90-110	05/03/2004	1348
CCB			-0.0024017							05/03/2004	1402
CCV		M0388	0.94982391		1.00		95.0	%	90-110	05/03/2004	1448
CCB			-0.0022873							05/03/2004	1454
CCB			-0.0025895							05/03/2004	1457
CCV		M0388	0.96095999		1.00		96.1	%	90-110	05/03/2004	1551
CCB			-0.0027929							05/03/2004	1604
MB		3010	-0.0026708							05/03/2004	1613
LCS		M351	0.47146470		0.500		94.3	%	90-110	05/03/2004	1620
MS	224513-1	M351	0.42847424		0.500	-0.0025221	86.2	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.43811024	0.42847424	0.500	-0.0025221	88.1	%	75-125	05/03/2004	1644
							2.2	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.94044012		1.00		94.0	%	90-110	05/03/2004	1658
CCB			-0.0026105							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96286556		2.00		98.1	%	90-110	05/05/2004	1029
ICV		M0368	0.98232223		1.00		98.2	%	90-110	05/05/2004	1044
ICV		M0380	1.02477247		1.00		102.5	%	90-110	05/05/2004	1100
ICB			-0.0005553							05/05/2004	1117
CCB			-0.0005505							05/05/2004	1137
CCV		M0388	1.03643717		1.00		103.6	%	90-110	05/05/2004	1148
CCB			-0.0006272							05/05/2004	1159
MB		3051	-0.0004054							05/05/2004	1205
LCS		M351	0.52078013		0.500		104.2	%	90-110	05/05/2004	1208
MS	224486-1	M351	0.48861790		0.500	-0.0011409	98.0	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52645079	0.48861790	0.500	-0.0011409	105.5	%	75-125	05/05/2004	1229
							7.5	R	20		
MB		3010	-0.0006265							05/05/2004	1237
LCS		M351	0.50138177		0.500		100.3	%	90-110	05/05/2004	1243
CCV		M0388	1.03328831		1.00		103.3	%	90-110	05/05/2004	1249
CCB			-0.0005893							05/05/2004	1302
CCV		M0388	1.02641287		1.00		102.6	%	90-110	05/05/2004	1352
CCB			-0.0004136							05/05/2004	1402
CCV		M0388	1.02532269		1.00		102.5	%	90-110	05/05/2004	1443
CCB			-0.0002490							05/05/2004	1456
MB		3010	-0.0008586							05/05/2004	1516
LCS		M351	0.49330779		0.500		98.7	%	90-110	05/05/2004	1522
MSD	224561-1	M351	0.45166462	0.45815110	0.500	-0.0005846	90.4	%	75-125	05/05/2004	1621
							1.4	R	20		
CCV		M0388	0.99406820		1.00		99.4	%	90-110	05/05/2004	1627
CCB			-0.0006065							05/05/2004	1637
CCV		M0388	1.01000574		1.00		101.0	%	90-110	05/05/2004	1700
CCB			-0.0007820							05/05/2004	1711
MB		3010	-0.0004213							05/05/2004	1717
LCS		M351	0.48494057		0.500		97.0	%	90-110	05/05/2004	1724
MS	224585-2	M351	0.46570599		0.500	-0.0007914	93.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.47229728	0.46570599	0.500	-0.0007914	94.6	%	75-125	05/05/2004	1744
							1.4	R	20		
CCV		M0388	0.99779984		1.00		99.8	%	90-110	05/05/2004	1801
CCB			-0.0009237							05/05/2004	1812
MB		3050	-0.0007977							05/05/2004	1818
LCS		M351	0.48042348		0.500		96.1	%	72-110	05/05/2004	1825
SB		M383D	1.86185080		2.10		88.7	%	72-110	05/05/2004	1830
MS	224573-1	M351	0.56170542		0.500	0.01710583	108.9	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.48126880	0.56170542	0.500	0.01710583	92.8	%	75-125	05/05/2004	1854
							15.4	R	20		
CCV		M0388	1.01355632		1.00		101.4	%	90-110	05/05/2004	1906
CCB			-0.0008381							05/05/2004	1916

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.02656908		2.00		101.3	%	90-110	05/03/2004	1134
ICV		M0368	1.02844170		1.00		102.8	%	90-110	05/03/2004	1148
ICB			-0.0029488							05/03/2004	1221
ICB			-0.0039002							05/03/2004	1239
ICV		M368B	0.50172434		0.500		100.3	%	90-110	05/03/2004	1243
CCV		M0388	0.99883289		1.00		99.9	%	90-110	05/03/2004	1248
CCB			-0.0029358							05/03/2004	1302
MB		3010	-0.0028163							05/03/2004	1305
LCS		M351	0.48122181		0.500		96.2	%	89-112	05/03/2004	1312
MS	224500-1	M351	0.52677798		0.500	0.00408758	104.5	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.52667233	0.52677798	0.500	0.00408758	104.5	%	75-125	05/03/2004	1333
							0.0	R	20		
CCV		M0388	1.00672026		1.00		100.7	%	90-110	05/03/2004	1348
CCB			-0.0034349							05/03/2004	1402
CCV		M0388	0.95905117		1.00		95.9	%	90-110	05/03/2004	1448
CCB			-0.0038439							05/03/2004	1454
CCB			-0.0043512							05/03/2004	1457
CCV		M0388	0.98824743		1.00		98.8	%	90-110	05/03/2004	1551
CCB			-0.0050358							05/03/2004	1604
MB		3010	-0.0059075							05/03/2004	1613
LCS		M351	0.49839350		0.500		99.7	%	89-112	05/03/2004	1620
MS	224513-1	M351	0.47076001		0.500	-0.0039094	94.9	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.47999393	0.47076001	0.500	-0.0039094	96.8	%	75-125	05/03/2004	1644
							1.9	R	20		
CCV		M0388	0.95497638		1.00		95.5	%	90-110	05/03/2004	1658
CCB			-0.0051278							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.02259240		2.00		101.1	%	90-110	05/05/2004	1029
ICV		M0368	1.02359219		1.00		102.4	%	90-110	05/05/2004	1044
ICV		M0380	1.03670326		1.00		103.7	%	90-110	05/05/2004	1100
ICB			0.00048660							05/05/2004	1117
CCB			-0.0011345							05/05/2004	1137
ICV		M368B	0.49518319		0.500		99.0	%	90-110	05/05/2004	1143
CCV		M0388	1.07529324		1.00		107.5	%	90-110	05/05/2004	1148
CCB			0.00025235							05/05/2004	1159
MB		3051	-0.0002626							05/05/2004	1205
LCS		M351	0.56491872		0.500		113.0	%	80-120	05/05/2004	1208
MS	224486-1	M351	0.65280998		0.500	0.13527310	103.5	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.71455281	0.65280998	0.500	0.13527310	115.9	%	75-125	05/05/2004	1229
							9.0	R	20		
MB		3010	0.00040018							05/05/2004	1237
LCS		M351	0.54008799		0.500		108.0	%	89-112	05/05/2004	1243
CCV		M0388	1.07305560		1.00		107.3	%	90-110	05/05/2004	1249
CCB			-0.0001947							05/05/2004	1302
CCV		M0388	1.05710120		1.00		105.7	%	90-110	05/05/2004	1352
CCB			-0.0011738							05/05/2004	1402

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.05976616		1.00		106.0	%	90-110	05/05/2004	1443
CCB			-0.0025015							05/05/2004	1456
MB		3010	-0.0021046							05/05/2004	1516
LCS		M351	0.52627549		0.500		105.3	%	89-112	05/05/2004	1522
MSD	224561-1	M351	0.53787759	0.54174134	0.500	0.04082392	99.4	%	75-125	05/05/2004	1621
							0.7	R	20		
CCV		M0388	1.03579094		1.00		103.6	%	90-110	05/05/2004	1627
CCB			-0.0027976							05/05/2004	1637
CCV		M0388	1.03826083		1.00		103.8	%	90-110	05/05/2004	1700
CCB			-0.0017203							05/05/2004	1711
MB		3010	-0.0034059							05/05/2004	1717
LCS		M351	0.52431123		0.500		104.9	%	89-112	05/05/2004	1724
MS	224585-2	M351	0.54973718		0.500	0.00606294	108.7	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.54657211	0.54973718	0.500	0.00606294	108.1	%	75-125	05/05/2004	1744
							0.6	R	20		
CCV		M0388	1.05855973		1.00		105.9	%	90-110	05/05/2004	1801
CCB			0.00188748							05/05/2004	1812
MB		3050	0.00050669							05/05/2004	1818
LCS		M351	0.57174338		0.500		114.3	%	67-119	05/05/2004	1825
SB		M383D	0.88807462		0.85		104.5	%	67-119	05/05/2004	1830
MS	224573-1	M351	0.68758142		0.500	0.05017293	127.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.58906271	0.68758142	0.500	0.05017293	107.8	%	75-125	05/05/2004	1854
							15.4	R	20		
CCV		M0388	1.06808334		1.00		106.8	%	90-110	05/05/2004	1906
CCB			-0.0035098							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04631766		2.00		102.3	%	90-110	05/03/2004	1134
ICV		M0368	1.02378134		1.00		102.4	%	90-110	05/03/2004	1148
ICB			-0.0019983							05/03/2004	1221
ICB			-0.0006250							05/03/2004	1239
ICV		M368B	0.49768300		0.500		99.5	%	90-110	05/03/2004	1243
CCV		M0388	0.97572543		1.00		97.6	%	90-110	05/03/2004	1248
CCB			-0.0013655							05/03/2004	1302
MB		3010	-0.0026215							05/03/2004	1305
LCS		M351	0.46984448		0.500		94.0	%	87-112	05/03/2004	1312
MS	224500-1	M351	0.39606407		0.500	-0.0023921	79.7	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.39358271	0.39606407	0.500	-0.0023921	79.2	%	75-125	05/03/2004	1333
							0.6	R	20		
CCV		M0388	0.96322523		1.00		96.3	%	90-110	05/03/2004	1348
CCB			-0.0029711							05/03/2004	1402
CCV		M0388	0.95819469		1.00		95.8	%	90-110	05/03/2004	1448
CCB			-0.0021828							05/03/2004	1454
CCB			-0.0015456							05/03/2004	1457
CCV		M0388	0.96810842		1.00		96.8	%	90-110	05/03/2004	1551
CCB			-0.0012506							05/03/2004	1604
MB		3010	-0.0007046							05/03/2004	1613

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M351	0.47949785		0.500		95.9	%	87-112	05/03/2004	1620
MS	224513-1	M351	0.44998923		0.500	0.00264939	89.5	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.45848981	0.44998923	0.500	0.00264939	91.2	%	75-125	05/03/2004	1644
							1.9	R	20		
CCV		M0388	0.96204835		1.00		96.2	%	90-110	05/03/2004	1658
CCB			-0.0012097							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96351547		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.97835892		1.00		97.8	%	90-110	05/05/2004	1044
ICV		M0380	0.97662246		1.00		97.7	%	90-110	05/05/2004	1100
ICB			-0.0005673							05/05/2004	1117
CCB			-0.0037506							05/05/2004	1137
ICV		M368B	0.48098065		0.500		96.2	%	90-110	05/05/2004	1143
CCV		M0388	1.01732430		1.00		101.7	%	90-110	05/05/2004	1148
CCB			-0.0007682							05/05/2004	1159
MB		3051	-0.0008466							05/05/2004	1205
LCS		M351	0.51559521		0.500		103.1	%	87-112	05/05/2004	1208
MS	224486-1	M351	0.49094955		0.500	0.00965662	96.3	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52742382	0.49094955	0.500	0.00965662	103.6	%	75-125	05/05/2004	1229
							7.2	R	20		
MB		3010	-0.0023737							05/05/2004	1237
LCS		M351	0.49686515		0.500		99.4	%	87-112	05/05/2004	1243
CCV		M0388	1.01617763		1.00		101.6	%	90-110	05/05/2004	1249
CCB			-0.0023203							05/05/2004	1302
CCV		M0388	1.00863265		1.00		100.9	%	90-110	05/05/2004	1352
CCB			0.00126154							05/05/2004	1402
CCV		M0388	1.01997810		1.00		102.0	%	90-110	05/05/2004	1443
CCB			-0.0011518							05/05/2004	1456
MB		3010	-0.0016165							05/05/2004	1516
LCS		M351	0.49241844		0.500		98.5	%	87-112	05/05/2004	1522
MSD	224561-1	M351	0.46609444	0.47548971	0.500	0.00314484	92.6	%	75-125	05/05/2004	1621
							2.0	R	20		
CCV		M0388	0.99892043		1.00		99.9	%	90-110	05/05/2004	1627
CCB			-0.0018299							05/05/2004	1637
CCV		M0388	1.00366827		1.00		100.4	%	90-110	05/05/2004	1700
CCB			-0.0022088							05/05/2004	1711
MB		3010	-0.0014586							05/05/2004	1717
LCS		M351	0.48431555		0.500		96.9	%	87-112	05/05/2004	1724
MS	224585-2	M351	0.46857579		0.500	0.00279557	93.2	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.47398301	0.46857579	0.500	0.00279557	94.2	%	75-125	05/05/2004	1744
							1.1	R	20		
CCV		M0388	0.99828048		1.00		99.8	%	90-110	05/05/2004	1801
CCB			-0.0013692							05/05/2004	1812
MB		3050	-0.0006663							05/05/2004	1818
LCS		M351	0.48642246		0.500		97.3	%	71-110	05/05/2004	1825
SB		M383D	1.73137746		2.04		84.9	%	71-110	05/05/2004	1830

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224573-1	M351	0.59021467		0.500	0.04264810	109.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.50579104	0.59021467	0.500	0.04264810	92.6	%	75-125	05/05/2004	1854
							15.4	R	20		
CCV		M0388	0.99159670		1.00		99.2	%	90-110	05/05/2004	1906
CCB			-0.0009782							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99535709		2.00		99.8	%	90-110	05/03/2004	1134
ICV		M0368	1.00418490		1.00		100.4	%	90-110	05/03/2004	1148
ICB			-0.0026413							05/03/2004	1221
ICB			-0.0026848							05/03/2004	1239
CCV		M0388	0.96260051		1.00		96.3	%	90-110	05/03/2004	1248
CCB			-0.0027593							05/03/2004	1302
MB		3010	-0.0027862							05/03/2004	1305
LCS		M351	0.46200646		0.500		92.4	%	88-110	05/03/2004	1312
MS	224500-1	M351	0.79443148		0.500	0.38401166	82.1	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.78330864	0.79443148	0.500	0.38401166	79.9	%	75-125	05/03/2004	1333
							1.4	R	20		
CCV		M0388	0.95869204		1.00		95.9	%	90-110	05/03/2004	1348
CCB			-0.0027747							05/03/2004	1402
CCV		M0388	0.95469644		1.00		95.5	%	90-110	05/03/2004	1448
CCB			-0.0028742							05/03/2004	1454
CCB			-0.0028236							05/03/2004	1457
CCV		M0388	0.96014334		1.00		96.0	%	90-110	05/03/2004	1551
CCB			-0.0026833							05/03/2004	1604
MB		3010	-0.0027797							05/03/2004	1613
LCS		M351	0.47617754		0.500		95.2	%	88-110	05/03/2004	1620
MS	224513-1	M351	0.47758341		0.500	0.02770385	90.0	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.48714653	0.47758341	0.500	0.02770385	91.9	%	75-125	05/03/2004	1644
							2.0	R	20		
CCV		M0388	0.95769351		1.00		95.8	%	90-110	05/03/2004	1658
CCB			-0.0026013							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98211603		2.00		99.1	%	90-110	05/05/2004	1029
ICV		M0368	0.97656368		1.00		97.7	%	90-110	05/05/2004	1044
ICV		M0380	0.95309048		1.00		95.3	%	90-110	05/05/2004	1100
ICB			-0.0010617							05/05/2004	1117
CCB			-0.0010692							05/05/2004	1137
CCV		M0388	1.03247113		1.00		103.2	%	90-110	05/05/2004	1148
CCB			-0.0011160							05/05/2004	1159

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3051	-0.0011821							05/05/2004	1205
LCS		M351	0.51726595		0.500		103.5	%	88-110	05/05/2004	1208
MS	224486-1	M351	0.49054047		0.500	0.00516986	97.1	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.53205382	0.49054047	0.500	0.00516986	105.4	%	75-125	05/05/2004	1229
							8.1	R	20		
MB		3010	-0.0010506							05/05/2004	1237
LCS		M351	0.50218560		0.500		100.4	%	88-110	05/05/2004	1243
CCV		M0388	1.02826044		1.00		102.8	%	90-110	05/05/2004	1249
CCB			-0.0011261							05/05/2004	1302
CCV		M0388	1.02121636		1.00		102.1	%	90-110	05/05/2004	1352
CCB			-0.0010612							05/05/2004	1402
CCV		M0388	1.01795202		1.00		101.8	%	90-110	05/05/2004	1443
CCB			-0.0011794							05/05/2004	1456
MB		3010	-0.0012202							05/05/2004	1516
LCS		M351	0.49210463		0.500		98.4	%	88-110	05/05/2004	1522
MSD	224561-1	M351	0.46709945	0.47225796	0.500	-0.0011610	93.7	%	75-125	05/05/2004	1621
							1.1	R	20		
CCV		M0388	0.99488785		1.00		99.5	%	90-110	05/05/2004	1627
CCB			-0.0012166							05/05/2004	1637
CCV		M0388	1.00936136		1.00		100.9	%	90-110	05/05/2004	1700
CCB			-0.0011989							05/05/2004	1711
MB		3010	-0.0013650							05/05/2004	1717
LCS		M351	0.48746452		0.500		97.5	%	88-110	05/05/2004	1724
MS	224585-2	M351	0.52361317		0.500	0.05123321	94.5	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.52483509	0.52361317	0.500	0.05123321	94.7	%	75-125	05/05/2004	1744
							0.2	R	20		
CCV		M0388	0.99730861		1.00		99.7	%	90-110	05/05/2004	1801
CCB			-0.0012788							05/05/2004	1812
MB		3050	-0.0013695							05/05/2004	1818
LCS		M351	0.50333263		0.500		100.7	%	88-110	05/05/2004	1825
SB		M383D	5.00172006		5.68		88.1	%	88-110	05/05/2004	1830
MS	224573-1	M351	1.56204334		0.500	0.76457409	159.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	1.38519968	1.56204334	0.500	0.76457409	124.1	%	75-125	05/05/2004	1854
							12.0	R	20		
CCV		M0388	1.00652602		1.00		100.7	%	90-110	05/05/2004	1906
CCB			-0.0011926							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.03515592		2.00		101.8	%	90-110	05/03/2004	1134
ICV		M0368	1.01298515		1.00		101.3	%	90-110	05/03/2004	1148
ICB			-0.0024921							05/03/2004	1221
ICB			-0.0023410							05/03/2004	1239
ICV		M368B	0.49423922		0.500		98.8	%	90-110	05/03/2004	1243
CCV		M0388	0.97842721		1.00		97.8	%	90-110	05/03/2004	1248
CCB			-0.0027048							05/03/2004	1302
MB		3010	-0.0026863							05/03/2004	1305
LCS		M351	0.46578351		0.500		93.2	%	90-112	05/03/2004	1312

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224500-1	M351	0.41395494		0.500	0.00878173	81.0	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.40925773	0.41395494	0.500	0.00878173	80.1	%	75-125	05/03/2004	1333
							1.1	R	20		
CCV		M0388	0.97646258		1.00		97.6	%	90-110	05/03/2004	1348
CCB			-0.0025546							05/03/2004	1402
CCV		M0388	0.95612281		1.00		95.6	%	90-110	05/03/2004	1448
CCB			-0.0023555							05/03/2004	1454
CCB			-0.0022011							05/03/2004	1457
CCV		M0388	0.97404123		1.00		97.4	%	90-110	05/03/2004	1551
CCB			-0.0025143							05/03/2004	1604
MB		3010	-0.0021252							05/03/2004	1613
LCS		M351	0.47833234		0.500		95.7	%	90-112	05/03/2004	1620
MS	224513-1	M351	0.43803413		0.500	0.00418650	86.8	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.44573047	0.43803413	0.500	0.00418650	88.3	%	75-125	05/03/2004	1644
							1.7	R	20		
CCV		M0388	0.95555671		1.00		95.6	%	90-110	05/03/2004	1658
CCB			-0.0020023							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96790738		2.00		98.4	%	90-110	05/05/2004	1029
ICV		M0368	0.97730746		1.00		97.7	%	90-110	05/05/2004	1044
ICV		M0380	0.99167174		1.00		99.2	%	90-110	05/05/2004	1100
ICB			-0.0017700							05/05/2004	1117
CCB			-0.0005882							05/05/2004	1137
ICV		M368B	0.47806202		0.500		95.6	%	90-110	05/05/2004	1143
CCV		M0388	1.02814360		1.00		102.8	%	90-110	05/05/2004	1148
CCB			-0.0012263							05/05/2004	1159
MB		3051	-0.0006789							05/05/2004	1205
LCS		M351	0.51036887		0.500		102.1	%	90-112	05/05/2004	1208
MS	224486-1	M351	0.48344786		0.500	-0.0006881	96.8	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.52208350	0.48344786	0.500	-0.0006881	104.6	%	75-125	05/05/2004	1229
							7.7	R	20		
MB		3010	-0.0005811							05/05/2004	1237
LCS		M351	0.50809977		0.500		101.6	%	90-112	05/05/2004	1243
CCV		M0388	1.02907869		1.00		102.9	%	90-110	05/05/2004	1249
CCB			-0.0014561							05/05/2004	1302
CCV		M0388	1.02330953		1.00		102.3	%	90-110	05/05/2004	1352
CCB			-0.0006424							05/05/2004	1402
CCV		M0388	1.02275720		1.00		102.3	%	90-110	05/05/2004	1443
CCB			-0.0012900							05/05/2004	1456
MB		3010	-0.0012316							05/05/2004	1516
LCS		M351	0.49019418		0.500		98.0	%	90-112	05/05/2004	1522
MSD	224561-1	M351	0.44766799	0.45578732	0.500	0.00148081	89.2	%	75-125	05/05/2004	1621
							1.8	R	20		
CCV		M0388	0.99593906		1.00		99.6	%	90-110	05/05/2004	1627
CCB			-0.0009459							05/05/2004	1637
CCV		M0388	1.00659686		1.00		100.7	%	90-110	05/05/2004	1700

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0004521							05/05/2004	1711
MB		3010	-0.0010167							05/05/2004	1717
LCS		M351	0.48824864		0.500		97.6	%	90-112	05/05/2004	1724
MS	224585-2	M351	0.47116631		0.500	-0.0003207	94.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.47414637	0.47116631	0.500	-0.0003207	94.9	%	75-125	05/05/2004	1744
							0.6	R	20		
CCV		M0388	1.00030462		1.00		100.0	%	90-110	05/05/2004	1801
CCB			-0.0006474							05/05/2004	1812
MB		3050	-0.0007735							05/05/2004	1818
LCS		M351	0.48852197		0.500		97.7	%	89-110	05/05/2004	1825
SB		M383D	1.68550504		1.89		89.2	%	89-110	05/05/2004	1830
MS	224573-1	M351	0.60049224		0.500	0.04027471	112.0	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.51514166	0.60049224	0.500	0.04027471	95.0	%	75-125	05/05/2004	1854
							15.3	R	20		
CCV		M0388	1.01686050		1.00		101.7	%	90-110	05/05/2004	1906
CCB			-0.0011004							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.01814743		2.00		100.9	%	90-110	05/03/2004	1134
ICV		M0368	1.01184068		1.00		101.2	%	90-110	05/03/2004	1148
ICB			-0.0028033							05/03/2004	1221
ICB			-0.0115489							05/03/2004	1239
ICV		M368B	0.50754868		0.500		101.5	%	90-110	05/03/2004	1243
CCV		M0388	0.97195818		1.00		97.2	%	90-110	05/03/2004	1248
CCB			-0.0053595							05/03/2004	1302
MB		3010	-0.0017130							05/03/2004	1305
LCS		M351	0.45389439		0.500		90.8	%	82-111	05/03/2004	1312
MS	224500-1	M351	0.47220096		0.500	0.01040638	92.4	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.47293922	0.47220096	0.500	0.01040638	92.5	%	75-125	05/03/2004	1333
							0.2	R	20		
CCV		M0388	0.96529377		1.00		96.5	%	90-110	05/03/2004	1348
CCB			-0.0058316							05/03/2004	1402
CCV		M0388	0.96723601		1.00		96.7	%	90-110	05/03/2004	1448
CCB			-0.0031217							05/03/2004	1454
CCB			0.00078277							05/03/2004	1457
CCV		M0388	0.96844641		1.00		96.8	%	90-110	05/03/2004	1551
CCB			-0.0065763							05/03/2004	1604
MB		3010	-0.0032221							05/03/2004	1613
LCS		M351	0.46843627		0.500		93.7	%	82-111	05/03/2004	1620
MS	224513-1	M351	0.46385412		0.500	0.01081231	90.6	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.48857645	0.46385412	0.500	0.01081231	95.6	%	75-125	05/03/2004	1644
							5.2	R	20		
CCV		M0388	0.96838392		1.00		96.8	%	90-110	05/03/2004	1658
CCB			0.00141867							05/03/2004	1711

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98193306		2.00		99.1	%	90-110	05/05/2004	1029
ICV		M0368	0.97443152		1.00		97.4	%	90-110	05/05/2004	1044
ICV		M0380	0.97071875		1.00		97.1	%	90-110	05/05/2004	1100
ICB			0.00013708							05/05/2004	1117
CCB			-0.0078257							05/05/2004	1137
ICV		M368B	0.48790083		0.500		97.6	%	90-110	05/05/2004	1143
CCV		M0388	1.01310135		1.00		101.3	%	90-110	05/05/2004	1148
MB		3051	-0.0037133							05/05/2004	1205
LCS		M351	0.47579415		0.500		95.2	%	82-111	05/05/2004	1208
MS	224486-1	M351	0.44023391		0.500	0.00943706	86.2	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.47530950	0.44023391	0.500	0.00943706	93.2	%	75-125	05/05/2004	1229
							7.7	R	20		
MB		3010	-0.0048247							05/05/2004	1237
LCS		M351	0.48816145		0.500		97.6	%	82-111	05/05/2004	1243
CCV		M0388	1.00632677		1.00		100.6	%	90-110	05/05/2004	1249
CCB			0.00482393							05/05/2004	1302
CCV		M0388	0.99643082		1.00		99.6	%	90-110	05/05/2004	1352
CCB			-0.0025919							05/05/2004	1402
CCV		M0388	1.00937670		1.00		100.9	%	90-110	05/05/2004	1443
CCB			-0.0054699							05/05/2004	1456
MB		3010	0.00417294							05/05/2004	1516
LCS		M351	0.47198947		0.500		94.4	%	82-111	05/05/2004	1522
MSD	224561-1	M351	0.48057992	0.48663460	0.500	0.01172049	93.8	%	75-125	05/05/2004	1621
							1.3	R	20		
CCV		M0388	0.99006322		1.00		99.0	%	90-110	05/05/2004	1627
CCB			-0.0070781							05/05/2004	1637
CCV		M0388	0.99376629		1.00		99.4	%	90-110	05/05/2004	1700
CCB			-0.0038259							05/05/2004	1711
MB		3010	-0.0059661							05/05/2004	1717
LCS		M351	0.46068852		0.500		92.1	%	82-111	05/05/2004	1724
MS	224585-2	M351	0.47136535		0.500	0.01214688	91.8	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.46959516	0.47136535	0.500	0.01214688	91.5	%	75-125	05/05/2004	1744
							0.4	R	20		
CCV		M0388	0.98844243		1.00		98.8	%	90-110	05/05/2004	1801
CCB			0.00228173							05/05/2004	1812
MB		3050	-0.0001454							05/05/2004	1818
LCS		M351	0.47637415		0.500		95.3	%	80-110	05/05/2004	1825
SB		M383D	0.87773681		0.996		88.1	%	80-110	05/05/2004	1830
MS	224573-1	M351	0.54560944		0.500	-0.0085002	110.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.46077500	0.54560944	0.500	-0.0085002	93.9	%	75-125	05/05/2004	1854
							16.9	R	20		
CCV		M0388	1.00690777		1.00		100.7	%	90-110	05/05/2004	1906
CCB			0.00100916							05/05/2004	1916

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.03358420		1.0		103.4	%	90-110	05/03/2004	1134
ICV		M0369	1.00427053		1.00		100.4	%	90-110	05/03/2004	1153
ICB			-0.0009655							05/03/2004	1221
ICB			-0.0009378							05/03/2004	1239
CCV		M0388	0.48863614		0.50		97.7	%	90-110	05/03/2004	1248
CCB			-0.0012861							05/03/2004	1302
MB		3010	-0.0006826							05/03/2004	1305
LCS		M351	0.22870156		0.25		91.5	%	87-110	05/03/2004	1312
MS	224500-1	M351	0.24518579		0.25	-0.0056806	100.3	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.24731117	0.24518579	0.25	-0.0056806	101.2	%	75-125	05/03/2004	1333
							0.9	R	20		
CCV		M0388	0.48946667		0.50		97.9	%	90-110	05/03/2004	1348
CCB			-0.0007841							05/03/2004	1402
CCV		M0388	0.47458682		0.50		94.9	%	90-110	05/03/2004	1448
CCB			-0.0000776							05/03/2004	1454
CCB			-0.0003926							05/03/2004	1457
CCV		M0388	0.48569607		0.50		97.1	%	90-110	05/03/2004	1551
CCB			-0.0010264							05/03/2004	1604
MB		3010	-0.0017313							05/03/2004	1613
LCS		M351	0.23713114		0.25		94.9	%	87-110	05/03/2004	1620
CCV		M0388	0.47115039		0.50		94.2	%	90-110	05/03/2004	1658
CCB			-0.0009781							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	0.98679499		1.0		98.7	%	90-110	05/05/2004	1029
ICV		M0369	0.96187757		1.00		96.2	%	90-110	05/05/2004	1049
ICB			0.00060156							05/05/2004	1117
ICV		M0369	0.97711316		1.00		97.7	%	90-110	05/05/2004	1134
CCB			0.00028693							05/05/2004	1137
CCV		M0388	0.52085320		0.50		104.2	%	90-110	05/05/2004	1148
CCB			0.00041554							05/05/2004	1159
MB		3051	-0.0000758							05/05/2004	1205
LCS		M351	0.25449947		0.25		101.8	%	87-110	05/05/2004	1208
MS	224486-1	M351	0.23965655		0.25	-0.0002569	96.0	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.26046473	0.23965655	0.25	-0.0002569	104.3	%	75-125	05/05/2004	1229
							8.3	R	20		
MB		3010	0.00043437							05/05/2004	1237
LCS		M351	0.25364360		0.25		101.5	%	87-110	05/05/2004	1243
CCV		M0388	0.52175346		0.50		104.4	%	90-110	05/05/2004	1249
CCB			0.00037051							05/05/2004	1302
CCV		M0388	0.51458728		0.50		102.9	%	90-110	05/05/2004	1352
CCB			0.00012652							05/05/2004	1402
CCV		M0388	0.51507259		0.50		103.0	%	90-110	05/05/2004	1443
CCB			-0.0008645							05/05/2004	1456
MB		3010	-0.0002129							05/05/2004	1516
LCS		M351	0.24686678		0.25		98.7	%	87-110	05/05/2004	1522
MSD	224561-1	M351	0.04827809	0.03417062	0.25	-0.0007075	19.6	%	75-125	05/05/2004	1621
							34.2	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.50347144		0.50		100.7	%	90-110	05/05/2004	1627
CCB			-0.0008196							05/05/2004	1637
CCV		M0388	0.50567516		0.50		101.1	%	90-110	05/05/2004	1700
CCB			0.00011396							05/05/2004	1711
MB		3010	-0.0004294							05/05/2004	1717
LCS		M351	0.24467974		0.25		97.9	%	87-110	05/05/2004	1724
MS	224585-2	M351	0.23653650		0.25	-0.0013056	95.1	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.24554654	0.23653650	0.25	-0.0013056	98.7	%	75-125	05/05/2004	1744
							3.7	R	20		
CCV		M0388	0.50507989		0.50		101.0	%	90-110	05/05/2004	1801
CCB			-0.0001354							05/05/2004	1812
MB		3050	-0.0000869							05/05/2004	1818
LCS		M351	0.24015784		0.25		96.1	%	81-110	05/05/2004	1825
SB		M383D	0.96772691		0.953		101.5	%	81-110	05/05/2004	1830
MS	224573-1	M351	0.28726180		0.25	-0.0014502	115.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.24422708	0.28726180	0.25	-0.0014502	98.3	%	75-125	05/05/2004	1854
							16.2	R	20		
CCV		M0388	0.50992244		0.50		102.0	%	90-110	05/05/2004	1906
CCB			0.00028555							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.01402444		2.00		100.7	%	90-110	05/03/2004	1137
ICV		M0374	0.93444819		1.00		93.4	%	90-110	05/03/2004	1213
ICB			0.00371724							05/03/2004	1221
ICB			-0.0021767							05/03/2004	1239
CCV		M0388	2.04468390		2.00		102.2	%	90-110	05/03/2004	1248
CCB			-0.0034275							05/03/2004	1302
MB		3010	-0.0038500							05/03/2004	1305
LCS		M351	0.97127726		1.00		97.1	%	83-118	05/03/2004	1312
MS	224500-1	M351	0.85179779		1.00	-0.0420786	89.4	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.84779934	0.85179779	1.00	-0.0420786	89.0	%	75-125	05/03/2004	1333
							0.5	R	20		
CCV		M0388	2.01846875		2.00		100.9	%	90-110	05/03/2004	1348
CCB			-0.0024313							05/03/2004	1402
CCV		M0388	2.01359890		2.00		100.7	%	90-110	05/03/2004	1448
CCB			0.01490605							05/03/2004	1454
CCB			0.00263342							05/03/2004	1457
CCV		M0388	2.00590885		2.00		100.3	%	90-110	05/03/2004	1551
CCB			-0.0032415							05/03/2004	1604
MB		3010	-0.0057646							05/03/2004	1613
LCS		M351	0.96846962		1.00		96.8	%	83-118	05/03/2004	1620
MS	224513-1	M351	0.92158683		1.00	-0.0264145	94.8	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.97180733	0.92158683	1.00	-0.0264145	99.8	%	75-125	05/03/2004	1644
							5.3	R	20		
CCV		M0388	2.00242563		2.00		100.1	%	90-110	05/03/2004	1658
CCB			-0.0012094							05/03/2004	1711

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.00575746		2.00		100.3	%	90-110	05/05/2004	1032
ICV		M0374	0.93145850		1.00		93.1	%	90-110	05/05/2004	1109
ICB			-0.0046663							05/05/2004	1117
ICV		M0374	0.96225289		1.00		96.2	%	90-110	05/05/2004	1129
CCB			-0.0022280							05/05/2004	1137
CCV		M0388	1.99548367		2.00		99.8	%	90-110	05/05/2004	1148
CCB			0.00196612							05/05/2004	1159
MB		3051	-0.0067584							05/05/2004	1205
LCS		M351	1.02089010		1.00		102.1	%	83-118	05/05/2004	1208
MS	224486-1	M351	1.00817140		1.00	-0.0043401	101.3	%	75-125	05/05/2004	1223
MSD	224486-1	M351	1.02754800	1.00817140	1.00	-0.0043401	103.2	%	75-125	05/05/2004	1229
							1.9	R	20		
MB		3010	0.00111628							05/05/2004	1237
LCS		M351	0.94059183		1.00		94.1	%	83-118	05/05/2004	1243
CCV		M0388	2.01426995		2.00		100.7	%	90-110	05/05/2004	1249
CCB			-0.0038084							05/05/2004	1302
CCV		M0388	1.97227964		2.00		98.6	%	90-110	05/05/2004	1352
CCB			0.00234547							05/05/2004	1402
CCV		M0388	1.98318141		2.00		99.2	%	90-110	05/05/2004	1443
CCB			-0.0061172							05/05/2004	1456
MB		3010	-0.0070074							05/05/2004	1516
LCS		M351	0.94830971		1.00		94.8	%	83-118	05/05/2004	1522
MSD	224561-1	M351	0.90953737	0.92117885	1.00	-0.0264474	93.6	%	75-125	05/05/2004	1621
							1.3	R	20		
CCV		M0388	1.96357632		2.00		98.2	%	90-110	05/05/2004	1627
CCB			0.00462767							05/05/2004	1637
CCV		M0388	1.94205221		2.00		97.1	%	90-110	05/05/2004	1700
CCB			0.00135056							05/05/2004	1711
MB		3010	-0.0086764							05/05/2004	1717
LCS		M351	0.94108271		1.00		94.1	%	83-118	05/05/2004	1724
MS	224585-2	M351	0.91134952		1.00	-0.0189795	93.0	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.94106614	0.91134952	1.00	-0.0189795	96.0	%	75-125	05/05/2004	1744
							3.2	R	20		
CCV		M0388	1.93681655		2.00		96.8	%	90-110	05/05/2004	1801
CCB			0.00073633							05/05/2004	1812
MB		3050	-0.0077970							05/05/2004	1818
LCS		M351	0.94941216		1.00		94.9	%	82-111	05/05/2004	1825
SB		M383D	1.25682717		1.41		89.1	%	82-111	05/05/2004	1830
MS	224573-1	M351	0.85287672		1.00	-0.0288793	88.2	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.87287807	0.85287672	1.00	-0.0288793	90.2	%	75-125	05/05/2004	1854
							2.3	R	20		
CCV		M0388	1.94281804		2.00		97.1	%	90-110	05/05/2004	1906
CCB			-0.0006954							05/05/2004	1916

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99493493		2.00		99.7	%	90-110	05/03/2004	1134
ICV		M0368	0.98154309		1.00		98.2	%	90-110	05/03/2004	1148
ICB			-0.0022728							05/03/2004	1221
ICB			-0.0018899							05/03/2004	1239
ICV		M368B	0.47882675		0.500		95.8	%	90-110	05/03/2004	1243
CCV		M0388	0.95218689		1.00		95.2	%	90-110	05/03/2004	1248
CCB			-0.0026200							05/03/2004	1302
MB		3010	-0.0018309							05/03/2004	1305
LCS		M351	0.45033022		0.500		90.1	%	89-110	05/03/2004	1312
MS	224500-1	M351	0.45453944		0.500	0.00931800	89.0	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.45849522	0.45453944	0.500	0.00931800	89.8	%	75-125	05/03/2004	1333
							0.9	R	20		
CCV		M0388	0.95675455		1.00		95.7	%	90-110	05/03/2004	1348
CCB			-0.0019664							05/03/2004	1402
CCV		M0388	0.92982447		1.00		93.0	%	90-110	05/03/2004	1448
CCB			-0.0025005							05/03/2004	1454
CCB			-0.0020225							05/03/2004	1457
CCV		M0388	0.95491652		1.00		95.5	%	90-110	05/03/2004	1551
CCB			-0.0016922							05/03/2004	1604
MB		3010	-0.0022438							05/03/2004	1613
LCS		M351	0.47113552		0.500		94.2	%	89-110	05/03/2004	1620
MS	224513-1	M351	0.45994899		0.500	-0.0011409	92.2	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.46674124	0.45994899	0.500	-0.0011409	93.6	%	75-125	05/03/2004	1644
							1.5	R	20		
CCV		M0388	0.93683013		1.00		93.7	%	90-110	05/03/2004	1658
CCB			-0.0026931							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96328627		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.96059604		1.00		96.1	%	90-110	05/05/2004	1044
ICV		M0380	0.96677575		1.00		96.7	%	90-110	05/05/2004	1100
ICB			-0.0013980							05/05/2004	1117
CCB			-0.0007868							05/05/2004	1137
ICV		M368B	0.46650974		0.500		93.3	%	90-110	05/05/2004	1143
CCV		M0388	1.01021863		1.00		101.0	%	90-110	05/05/2004	1148
CCB			-0.0001802							05/05/2004	1159
MB		3051	-0.0003029							05/05/2004	1205
LCS		M351	0.50099204		0.500		100.2	%	89-110	05/05/2004	1208
MS	224486-1	M351	0.47129399		0.500	-0.0003549	94.3	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.50985263	0.47129399	0.500	-0.0003549	102.0	%	75-125	05/05/2004	1229
							7.9	R	20		
MB		3010	0.00006791							05/05/2004	1237
LCS		M351	0.48997381		0.500		98.0	%	89-110	05/05/2004	1243
CCV		M0388	1.00553500		1.00		100.6	%	90-110	05/05/2004	1249
CCB			-0.0010040							05/05/2004	1302
CCV		M0388	1.00439200		1.00		100.4	%	90-110	05/05/2004	1352
CCB			-0.0007824							05/05/2004	1402

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.99877197		1.00		99.9	%	90-110	05/05/2004	1443
CCB			-0.0006352							05/05/2004	1456
MB		3010	-0.0008997							05/05/2004	1516
LCS		M351	0.48317630		0.500		96.6	%	89-110	05/05/2004	1522
MSD	224561-1	M351	0.47252848	0.47761798	0.500	0.00134441	94.2	%	75-125	05/05/2004	1621
							1.1	R	20		
CCV		M0388	0.98424914		1.00		98.4	%	90-110	05/05/2004	1627
CCB			0.00016971							05/05/2004	1637
CCV		M0388	0.99301047		1.00		99.3	%	90-110	05/05/2004	1700
CCB			-0.0003299							05/05/2004	1711
MB		3010	-0.0008796							05/05/2004	1717
LCS		M351	0.48016017		0.500		96.0	%	89-110	05/05/2004	1724
MS	224585-2	M351	0.48076922		0.500	-0.0008297	96.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.48375467	0.48076922	0.500	-0.0008297	96.9	%	75-125	05/05/2004	1744
							0.6	R	20		
CCV		M0388	0.98820385		1.00		98.8	%	90-110	05/05/2004	1801
CCB			0.00028873							05/05/2004	1812
MB		3050	-0.0003256							05/05/2004	1818
LCS		M351	0.46803457		0.500		93.6	%	87-110	05/05/2004	1825
SB		M383D	1.70618868		2.04		83.6	%	87-110	05/05/2004	1830
MS	224573-1	M351	0.61225343		0.500	0.05842526	110.8	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.53353329	0.61225343	0.500	0.05842526	95.0	%	75-125	05/05/2004	1854
							13.7	R	20		
CCV		M0388	1.00438882		1.00		100.4	%	90-110	05/05/2004	1906
CCB			-0.0001368							05/05/2004	1916

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.04193959		2.00		102.1	%	90-110	05/03/2004	1134
ICV		M0368	1.01657756		1.00		101.7	%	90-110	05/03/2004	1148
ICB			-0.0029764							05/03/2004	1221
ICB			-0.0045161							05/03/2004	1239
ICV		M368B	0.49595679		0.500		99.2	%	90-110	05/03/2004	1243
CCV		M0388	0.98046113		1.00		98.0	%	90-110	05/03/2004	1248
CCB			-0.0035221							05/03/2004	1302
MB		3010	-0.0038893							05/03/2004	1305
LCS		M351	0.46210678		0.500		92.4	%	86-110	05/03/2004	1312
MS	224500-1	M351	0.45723411		0.500	0.03595931	84.3	%	75-125	05/03/2004	1327
MSD	224500-1	M351	0.45748725	0.45723411	0.500	0.03595931	84.3	%	75-125	05/03/2004	1333
							0.1	R	20		
CCV		M0388	0.96287947		1.00		96.3	%	90-110	05/03/2004	1348
CCB			-0.0028480							05/03/2004	1402
CCV		M0388	0.94424243		1.00		94.4	%	90-110	05/03/2004	1448
CCB			-0.0038629							05/03/2004	1454
CCB			-0.0025966							05/03/2004	1457
CCV		M0388	0.96276029		1.00		96.3	%	90-110	05/03/2004	1551
CCB			-0.0021693							05/03/2004	1604
MB		3010	-0.0021377							05/03/2004	1613

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93230 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M351	0.47259762		0.500		94.5	%	86-110	05/03/2004	1620
MS	224513-1	M351	0.46803078		0.500	0.00700469	92.2	%	75-125	05/03/2004	1639
MSD	224513-1	M351	0.47798760	0.46803078	0.500	0.00700469	94.2	%	75-125	05/03/2004	1644
							2.1	R	20		
CCV		M0388	0.94576769		1.00		94.6	%	90-110	05/03/2004	1658
CCB			-0.0009745							05/03/2004	1711

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96495435		2.00		98.2	%	90-110	05/05/2004	1029
ICV		M0368	0.98141690		1.00		98.1	%	90-110	05/05/2004	1044
ICV		M0380	0.99004346		1.00		99.0	%	90-110	05/05/2004	1100
ICB			-0.0023678							05/05/2004	1117
CCB			-0.0015666							05/05/2004	1137
ICV		M3688	0.48473972		0.500		96.9	%	90-110	05/05/2004	1143
CCV		M0388	1.02812709		1.00		102.8	%	90-110	05/05/2004	1148
CCB			-0.0018317							05/05/2004	1159
MB		3051	0.00032373							05/05/2004	1205
LCS		M351	0.49829193		0.500		99.7	%	86-110	05/05/2004	1208
MS	224486-1	M351	0.68205188		0.500	0.24958749	86.5	%	75-125	05/05/2004	1223
MSD	224486-1	M351	0.75894863	0.68205188	0.500	0.24958749	101.9	%	75-125	05/05/2004	1229
							10.7	R	20		
MB		3010	0.00185047							05/05/2004	1237
LCS		M351	0.49679020		0.500		99.4	%	86-110	05/05/2004	1243
CCV		M0388	1.02234606		1.00		102.2	%	90-110	05/05/2004	1249
CCB			-0.0008958							05/05/2004	1302
CCV		M0388	1.01953303		1.00		102.0	%	90-110	05/05/2004	1352
CCB			-0.0016136							05/05/2004	1402
CCV		M0388	1.01773019		1.00		101.8	%	90-110	05/05/2004	1443
CCB			-0.0017983							05/05/2004	1456
MB		3010	-0.0020473							05/05/2004	1516
LCS		M351	0.48815449		0.500		97.6	%	86-110	05/05/2004	1522
MSD	224561-1	M351	0.49773640	0.50284271	0.500	0.02787724	94.0	%	75-125	05/05/2004	1621
							1.0	R	20		
CCV		M0388	0.99702236		1.00		99.7	%	90-110	05/05/2004	1627
CCB			-0.0019091							05/05/2004	1637
CCV		M0388	1.00358802		1.00		100.4	%	90-110	05/05/2004	1700
CCB			-0.0020213							05/05/2004	1711
MB		3010	-0.0030431							05/05/2004	1717
LCS		M351	0.47907682		0.500		95.8	%	86-110	05/05/2004	1724
MS	224585-2	M351	0.60532163		0.500	0.12372450	96.3	%	75-125	05/05/2004	1739
MSD	224585-2	M351	0.60705003	0.60532163	0.500	0.12372450	96.7	%	75-125	05/05/2004	1744
							0.3	R	20		
CCV		M0388	0.99343744		1.00		99.3	%	90-110	05/05/2004	1801
CCB			-0.0024946							05/05/2004	1812
MB		3050	-0.0030300							05/05/2004	1818
LCS		M351	0.55506348		0.500		111.0	%	85-110	05/05/2004	1825
SB		M383D	2.74952483		3.29		83.6	%	85-110	05/05/2004	1830

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224531 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93347 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224573-1	M351	0.77372094		0.500	0.21619294	111.5	%	75-125	05/05/2004	1849
MSD	224573-1	M351	0.66908169	0.77372094	0.500	0.21619294	90.6	%	75-125	05/05/2004	1854
							14.5	R	20		
CCV		M0388	0.96666611		1.00		96.7	%	90-110	05/05/2004	1906
CCB			0.00605840							05/05/2004	1916

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

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Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4E030110

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

May 12, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 14, 2004

STL LOT NUMBER: **I4E030110**
PO/CONTRACT: 224531

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on May 3, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4E030110

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224531-1 04/29/04 15:45 001				
Cadmium	1050	1.0	ug/L	SW846 6020
Antimony	14.6	1.0	ug/L	SW846 6020
Thallium	51.7	1.0	ug/L	SW846 6020
224531-2 04/29/04 15:55 002				
Cadmium	1290	1.0	ug/L	SW846 6020
Antimony	6.2	1.0	ug/L	SW846 6020
Thallium	19.7	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4E030110

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4E030110

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GFD2N	001	224531-1	04/29/04	15:45
GFD2R	002	224531-2	04/29/04	15:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4E030110

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4127392	4127216
	WATER	SW846 6010B		4126245	4126152
002	WATER	SW846 6020		4127392	4127216
	WATER	SW846 6010B		4126245	4126152

STL CORPUS CHRISTI

Client Sample ID: 224531-1

TOTAL Metals

Lot-Sample #...: I4E030110-001 Matrix.....: WATER
Date Sampled...: 04/29/04 15:45 Date Received..: 05/01/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4126245						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/05-05/06/04	GFD2N1AE
		Dilution Factor: 1		Analysis Time..: 10:26	MS Run #.....: 4126152	
Prep Batch #...: 4127392						
Cadmium	1050	1.0	ug/L	SW846 6020	05/06-05/10/04	GFD2N1AA
		Dilution Factor: 1		Analysis Time..: 17:49	MS Run #.....: 4127216	
Antimony	14.6	1.0	ug/L	SW846 6020	05/06-05/10/04	GFD2N1AC
		Dilution Factor: 1		Analysis Time..: 17:49	MS Run #.....: 4127216	
Thallium	51.7	1.0	ug/L	SW846 6020	05/06-05/10/04	GFD2N1AD
		Dilution Factor: 1		Analysis Time..: 17:49	MS Run #.....: 4127216	

STL CORPUS CHRISTI

Client Sample ID: 224531-2

TOTAL Metals

Lot-Sample #...: I4E030110-002 Matrix.....: WATER
Date Sampled...: 04/29/04 15:55 Date Received..: 05/01/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4126245						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/05-05/06/04	GFD2R1AE
		Dilution Factor: 1		Analysis Time..: 10:31	MS Run #.....: 4126152	
Prep Batch #...: 4127392						
Cadmium	1290	1.0	ug/L	SW846 6020	05/06-05/10/04	GFD2R1AA
		Dilution Factor: 1		Analysis Time..: 17:55	MS Run #.....: 4127216	
Antimony	6.2	1.0	ug/L	SW846 6020	05/06-05/10/04	GFD2R1AC
		Dilution Factor: 1		Analysis Time..: 17:55	MS Run #.....: 4127216	
Thallium	19.7	1.0	ug/L	SW846 6020	05/06-05/10/04	GFD2R1AD
		Dilution Factor: 1		Analysis Time..: 17:55	MS Run #.....: 4127216	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4E030110 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4E050000-245 **Prep Batch #...:** 4126245						
Bismuth	ND	0.20	mg/L	SW846 6010B	05/05-05/06/04	GFKCW1AE
		Dilution Factor: 1				
		Analysis Time..: 09:45				
MB Lot-Sample #: I4E060000-392 **Prep Batch #...:** 4127392						
Antimony	ND	1.0	ug/L	SW846 6020	05/06-05/10/04	GFNDC1AC
		Dilution Factor: 1				
		Analysis Time..: 17:38				
Cadmium	ND	1.0	ug/L	SW846 6020	05/06-05/10/04	GFNDC1AA
		Dilution Factor: 1				
		Analysis Time..: 17:38				
Thallium	ND	1.0	ug/L	SW846 6020	05/06-05/10/04	GFNDC1AD
		Dilution Factor: 1				
		Analysis Time..: 17:38				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E030110 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E050000-245 **Prep Batch #...:** 4126245					
Bismuth	104	(80 - 120)	SW846 6010B	05/05-05/06/04	GFKCW1AJ
		Dilution Factor: 1	Analysis Time..: 00:95		
LCS Lot-Sample#: I4E060000-392 **Prep Batch #...:** 4127392					
Cadmium	102	(80 - 120)	SW846 6020	05/06-05/10/04	GFNDC1AE
		Dilution Factor: 1	Analysis Time..: 17:43		
Antimony	102	(80 - 120)	SW846 6020	05/06-05/10/04	GFNDC1AF
		Dilution Factor: 1	Analysis Time..: 17:43		
Thallium	109	(80 - 120)	SW846 6020	05/06-05/10/04	GFNDC1AG
		Dilution Factor: 1	Analysis Time..: 17:43		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E030110 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4E050000-245 **Prep Batch #...:** 4126245							
Bismuth	0.500	0.520	mg/L	104	SW846 6010B	05/05-05/06/04	GFKCW1AJ
			Dilution Factor: 1		Analysis Time..: 00:95		
LCS Lot-Sample#: I4E060000-392 **Prep Batch #...:** 4127392							
Cadmium	50.0	51.2	ug/L	102	SW846 6020	05/06-05/10/04	GFNDC1AE
			Dilution Factor: 1		Analysis Time..: 17:43		
Antimony	50.0	51.1	ug/L	102	SW846 6020	05/06-05/10/04	GFNDC1AF
			Dilution Factor: 1		Analysis Time..: 17:43		
Thallium	50.0	54.5	ug/L	109	SW846 6020	05/06-05/10/04	GFNDC1AG
			Dilution Factor: 1		Analysis Time..: 17:43		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4E030110 **Matrix.....:** WATER
Date Sampled...: 04/29/04 15:55 **Date Received..:** 05/01/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E030110-002 **Prep Batch #...:** 4126245							
Bismuth	106	(75 - 125)			SW846 6010B	05/05-05/06/04	GFD2R1AM
	104	(75 - 125)	1.6	(0-20)	SW846 6010B	05/05-05/06/04	GFD2R1AN
		Dilution Factor: 1					
		Analysis Time..: 10:56					
		MS Run #.....: 4126152					
MS Lot-Sample #: I4E030110-002 **Prep Batch #...:** 4127392							
Antimony	94	(80 - 120)			SW846 6020	05/06-05/10/04	GFD2R1AH
	99	(80 - 120)	4.6	(0-20)	SW846 6020	05/06-05/10/04	GFD2R1AJ
		Dilution Factor: 1					
		Analysis Time..: 18:25					
		MS Run #.....: 4127216					
Cadmium	NC	(80 - 120)			SW846 6020	05/06-05/10/04	GFD2R1AF
	NC	(80 - 120)		(0-20)	SW846 6020	05/06-05/10/04	GFD2R1AG
		Dilution Factor: 1					
		Analysis Time..: 18:25					
		MS Run #.....: 4127216					
Thallium	102	(80 - 120)			SW846 6020	05/06-05/10/04	GFD2R1AK
	106	(80 - 120)	2.4	(0-20)	SW846 6020	05/06-05/10/04	GFD2R1AL
		Dilution Factor: 1					
		Analysis Time..: 18:25					
		MS Run #.....: 4127216					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4E030110 **Matrix.....:** WATER
Date Sampled...: 04/29/04 15:55 **Date Received..:** 05/01/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4E030110-002 **Prep Batch #...:** 4126245									
Bismuth									
	ND	0.500	0.528	mg/L	106		SW846 6010B	05/05-05/06/04	GFD2R1AM
	ND	0.500	0.519	mg/L	104	1.6	SW846 6010B	05/05-05/06/04	GFD2R1AN
			Dilution Factor: 1						
			Analysis Time..: 10:56						
			MS Run #.....: 4126152						
MS Lot-Sample #: I4E030110-002 **Prep Batch #...:** 4127392									
Antimony									
	6.2	50.0	53.0	ug/L	94		SW846 6020	05/06-05/10/04	GFD2R1AH
	6.2	50.0	55.5	ug/L	99	4.6	SW846 6020	05/06-05/10/04	GFD2R1AJ
			Dilution Factor: 1						
			Analysis Time..: 18:25						
			MS Run #.....: 4127216						
Cadmium									
	1290	50.0	1340 NC	ug/L			SW846 6020	05/06-05/10/04	GFD2R1AF
	1290	50.0	1360 NC	ug/L			SW846 6020	05/06-05/10/04	GFD2R1AG
			Dilution Factor: 1						
			Analysis Time..: 18:25						
			MS Run #.....: 4127216						
Thallium									
	19.7	50.0	70.9	ug/L	102		SW846 6020	05/06-05/10/04	GFD2R1AK
	19.7	50.0	72.6	ug/L	106	2.4	SW846 6020	05/06-05/10/04	GFD2R1AL
			Dilution Factor: 1						
			Analysis Time..: 18:25						
			MS Run #.....: 4127216						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4E030110

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 5-1-04/0850

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 5-1-04/0900

CLIENT/PROJECT: STL - Corpus Christi

SAMPLES LOGGED IN: LOG-IN REVIEWED:

Number of Shipping Containers Received with Chain of Custody: 1

CL

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO — Custody Seal Signed/Dated: ☐ YES ☑ NO

Custody Seal Present: ☐ YES ☑ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: LT **IR THERMOMETER #:** P-5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°c										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: AT

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 5/17/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

I4E030110
STL Austin

No. 23722

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS:
	Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST 6020 (Sb, Cd, Tl)	6010 (Bi)							REMARKS/PRECAUTIONS
	224531-1	4/29/04	15:45	Water	P500	HNO3	1	X	X							Attn:
	224531-2	↓	15:55	↓	↓	↓	1	X	X							Neal Salcher
																ASARCO Pricing
																2nd/Lt/5-1-04

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/30/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 12:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: Luke Townsend	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Luke	5-1-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-Austin	TIME 0550	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- X - Indicates that a surrogate recovery is outside the specified quality control limits.
- Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
- * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
- ^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

- B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
- J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS GERAGHTY & MILLER

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

224531

14.2°C Just sampled

Project Number/Name: Encycle RCRA Closure

Project Location: Encycle, Corpus Christi, TX

Laboratory: STL

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Marc Buentello / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Cyanide (1 qt. poly w/ NaOH)	Sb, As, Ba, Bi, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Tin, V, Zn (2 1pt. poly w/ HNO3)					Remarks	Total
Bin D	L	4/28/04/1545		1	2					Need low detection limits	3
Bin E	L	4/29/04/1555		1	2					" " " "	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: Marc Buentello	Organization: ARCADIS	Date 4/29/04	Time 1627	Seal Intact? Yes No N/A
Received by: Cheryn R Whitmire	Organization: STL-CC	Date 4/29/04	Time 1627	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks: Invoice to Rich Marcus for Encycle RCRA closure.
Results to Rich Marcus and Ken Brandner
Normal TA time, need low detection limits.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-0597

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277363 **Report Date:** 09/02/04
Project ID: Encycle RCRA Closure
Sample Name: Bin D
Sample Matrix: water
Date Received: 08/25/2004 **Time:** 12:10
Date Sampled: 08/25/2004 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	08/26/04	3015	---	---	---	---	---
Antimony/ICP	<0.006	mg/L	0.006	<0.006	09/02/04	200.7	---	1.37	98.48	100.3	100.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	08/30/04	200.7	J	2.23	97.4	100.34	99.74
Cadmium/ICP	0.0055	mg/L	0.002	<0.002	08/30/04	200.7	---	0.48	97.83	102.5	99.99
Lead/ICP	0.0582	mg/L	0.01	<0.01	08/30/04	200.7	---	0.45	96.36	103.36	100.54
Nickel/ICP	0.0157	mg/L	0.01	<0.01	08/30/04	200.7	---	1.66	97.16	103.96	100.16
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	09/01/04	279.2	---	6.94	109.63	110	91.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277363 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin D

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name KEN BRANNER (ARCADIS) / RICH MARCUS (ENCYCLE)
Address 711 N. CREEKWOOD
City C.C. State TX Zip 78475
ATTN:
Phone Fax

Bill to (if different):
Company Name ENCYCLE TEXAS CORP
Address
City State Zip
ATTN: Rich Marcus
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler: JACOB CLEMENTS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL ANTIMONY, ARSENIC, CHROMIUM, LEAD, NICKEL & THALLIUM (IF CAN BE DONE)	Comments
BIN D	8-25-04	1200	1		X		277363		NEED 5-DAY TURNAROUND. RESULTS TO KEN BRANNER (ARCADIS) & Rich MARCUS (ENCYCLE)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
JACOB CLEMENTS	ARCADIS	8-25-04	1210	T. Escamilla	ASI	8-25-04	1210
				D. Flynn	ASI	8/26/04	0830

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277376 **Report Date:** 09/07/04
Project ID: Encycle RCRA Closure
Sample Name: Bin D
Sample Matrix: water
Date Received: 08/25/2004 **Time:** 16:20
Date Sampled: 08/25/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/03/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0076**	mg/L	0.002	<0.002	09/07/04	6010 & 200.7	---	0.76	94.77	100.2	83.12
Lead/ICP	**0.0667**	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	1.08	96.01	100.7	84.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name K. BRANNEN (ARCADIS) R. MARCUS (ENCYCLE)
Address 711 N. CARANCAHUA
City C.C. State TX Zip 78475
ATTN:
Phone 361-883-1355 Fax 361-883-7565

Bill to (if different):
Company Name ENCYCLE ELDA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler:

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL ORGANIC CARBON (TOC)	CHROMIUM, TOTAL & HEXAVALENT	TPH DRO by HANDy	Comments
BIND	8/25/04	1600	1		X		277376	/	←		HOLD PENDING
										analyze per R. Marcus	NA NOTIFICATION from K. Brannen - Results to K. Brannen (ARCADIS) & R. Marcus (ENCYCLE)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Jacob Clevenger	ARCADIS	8-25-04	1620	M. Escamilla	ASI	8-25-04	1620
				L. Flynn	ASI	8/26/04	0830

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277742 **Report Date:** 09/14/04
Project ID: Encycle RCRA Closure
Sample Name: Bin D
Sample Matrix: water
Date Received: 09/08/2004 **Time:** 16:05
Date Sampled: 09/08/2004 **Time:** 13:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/09/04	3015	---	---	---	---	---
Antimony/ICP	<0.01	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	J	0.93	98.12	101.68	101.16
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	2	99.78	100.38	96.54
Cadmium/ICP	**0.0025**	mg/L	0.002	<0.002	09/13/04	6010 & 200.7	---	0.49	100.55	102.4	99.22
Lead/ICP	**0.0264**	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	0.34	100.04	104.44	100.74
Nickel/ICP	<0.01	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	J	0.02	97.89	101.62	98.7
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	09/10/04	279.2&7841	---	2.91	90.14	103.5	114

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277742 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin D

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Antimony/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277743 **Report Date:** 09/14/04
Project ID: Encycle RCRA Closure
Sample Name: Bin D
Sample Matrix: water
Date Received: 09/08/2004 **Time:** 16:05
Date Sampled: 09/08/2004 **Time:** 15:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/09/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/13/04	6010 & 200.7	J	0.49	100.55	102.4	99.22
Lead/ICP	0.0259	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	0.34	100.04	104.44	100.74

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Exceptions Report:

Report #/Lab ID#: 277743 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin D

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277744 **Report Date:** 09/14/04
Project ID: Encycle RCRA Closure
Sample Name: Rinse Water Blank
Sample Matrix: water
Date Received: 09/08/2004 **Time:** 16:05
Date Sampled: 09/08/2004 **Time:** 13:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/10/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0063**	mg/L	0.002	<0.002	09/13/04	6010 & 200.7	---	0.49	100.55	102.4	99.22
Lead/ICP	**0.0425**	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	0.34	100.04	104.44	100.74

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277745 **Report Date:** 09/14/04
Project ID: Encycle RCRA Closure
Sample Name: Fire Hydrant Water Blank
Sample Matrix: water
Date Received: 09/08/2004 **Time:** 16:05
Date Sampled: 09/08/2004 **Time:** 13:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/09/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/13/04	6010 & 200.7	J	0.49	100.55	102.4	99.22
Lead/ICP	0.0186	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	0.34	100.04	104.44	100.74

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Exceptions Report:

Report #/Lab ID#: 277745 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Fire Hydrant Water Blank

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes:

SEVERN TRENT **STL** ANALYSIS

No. 24121

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ARCADIS / ENCYCLE	PROJECT NAME/NUMBER: ENCYCLE RCRA CLOSURE
SEND REPORT TO: KEN BRADNER / RICH MARCUS	**BILLING INFORMATION**
ADDRESS: 711 N. CARANCAHUA CC TX 78475	BILL TO: RICH MARCUS
	ADDRESS:
PHONE: 883 1353	PHONE:
FAX: 883 7565	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: TOTAL ANTIMONY, ARSENIC, CHROMIUM, LEAD, NICKEL, THALLIUM	TOTAL CHROMIUM & LEAD	LAB JOB NO.	REMARKS/PRECAUTIONS
277742	BIN D	9-8-04	1305	L	1 pt poly	HNO_3	1	X			Need 3 day turn around time
277743	BIN D	↓	1545	↓	↓	↓	1		X		
277744	RINSE WATER BLANK		1300				1		X		
277745	FIRE HYDRANT WATER BLANK		1300				1		X		

SAMPLER: J CLEMENTS / O. GONZALEZ | SHIPMENT METHOD: IN PERSON | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	9-8-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1805	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: M. Wall	9/8/04	SIGNATURE: G. Flynn	9/9/04	SIGNATURE:	
PRINTED NAME/COMPANY: ASI	TIME 1805	PRINTED NAME/COMPANY: G. FLYNN / ASI	TIME 0835	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

T: 2.0°C

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278315 **Report Date:** 10/01/04
Project ID: Encycle RCRA Closure
Sample Name: Bin D
Sample Matrix: water
Date Received: 09/28/2004 **Time:** 16:20
Date Sampled: 09/28/2004 **Time:** 16:00

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA** [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/29/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/30/04	6010 & 200.7	---	1.64	95.63	97.24	98.82

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

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CHAIN-OF JSTODY www.an. ;ysinc.com

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS / ENVIRITE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRANNER / RICH MARCUS
Phone 8831353 Fax 883 7565

Bill To (if different):
Company Name ENVIRITE RCRA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Project Name/PO#: Sampler

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL LEAD										RUSH TAT (Pre-Scheduled)	Standard TAT
BIN D	9-28-04	1600	1	X		278315	X	X											X											

Special Instructions (such as special QC requirements, lists, methods, etc...)

T = 2.2 °C

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	
J. CLEMENTS	ARCADIS	9-28-04	1620	M. Wall	AS	9/28/04	1620	NO	
				D. Flynn	ASI	9/29/04	0850		

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

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Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277323 **Report Date:** 09/08/04
Project ID: Encycle RCRA Closure
Sample Name: Bin E
Sample Matrix: water
Date Received: 08/24/2004 **Time:** 13:10
Date Sampled: 08/24/2004 **Time:** 13:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/02/04	3015	---	---	---	---	---
Antimony/ICP	<0.006	mg/L	0.006	<0.006	09/07/04	6010 & 200.7	J	3.46	92.91	100.84	87.36
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	3.38	92.82	101.36	88.56
Cadmium/ICP	0.008	mg/L	0.002	<0.002	09/07/04	6010 & 200.7	---	0.97	93.02	98.9	86.9
Lead/ICP	0.0734	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	0.57	94.67	100.56	85.2
Nickel/ICP	0.0123	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	1.46	91.18	98.86	85.74
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	09/07/04	279.2&7841	---	7.28	78.67	104.5	102.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277323 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin E

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Antimony/ICP	J	See J-flag discussion above.

Notes: _____

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: ENCYCLE PCRA CLOSURE

Project Location: CC, TX

Laboratory: ANALYSIS

Project Manager: KEN BRADNER

Sampler(s)/Affiliation: J. CLEMENTS / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TOTAL CADMIUM LEAD ANTIMONY ARSENIC NICKEL THALLIUM 1 PT KALV W/ HNO3						Remarks	Total
BIN E	L	8-24-04 1305	277323	1	←					~~HOLD~~	1
					analyze per R. Marcus					PENDING NOTIFICATION	
										FROM P.M.	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: JACOB CLEMENTS	Organization: ARCADIS	Date 8/24/04	Time 13:10	Seal Intact?
Received by: [signature]	Organization: Analysis	Date 8/24/04	Time 13:10	Yes No N/A
Relinquished by: [signature]	Organization:	Date / /	Time	Seal Intact?
Received by: [signature]	Organization: ASI	Date 8/25/04	Time 0825	Yes No N/A

Special Instructions/Remarks: HOLD PENDING NOTIFICATION FROM K. BRADNER. RESULTS TO K. BRADNER (ARCADIS) & R. MARCUS (ENCYCLE)

T: 2.8°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277335 **Report Date:** 09/10/04
Project ID: Encycle RCRA Closure
Sample Name: Bin E
Sample Matrix: water
Date Received: 08/24/2004 **Time:** 16:10
Date Sampled: 08/24/2004 **Time:** 15:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/09/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0054**	mg/L	0.002	<0.002	09/10/04	6010 & 200.7	---	0.59	102.33	103.3	102.9
Lead/ICP	**0.0549**	mg/L	0.01	<0.01	09/10/04	6010 & 200.7	---	0.28	100.25	103.58	102.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

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CHAIN OF-CUSTODY

WWW.ANALYSYSINC.COM

AnalySys Inc.
3512 Montopolis Drive, Austin, TX 78744
Phone: (512) 385-5886 Fax: (512) 385-7411
2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports To: KEN BRADNER (ARCADIS)
Company Name Rich Marcus (ENCYCLE)
Address 711 N. CARANCAHUA
City C.C. State TX Zip 78475
ATTN: _____
Phone _____ Fax _____

Bill to (if different):
Company Name Rich Marcus/ENCYCLE TEXAS CLOSURE
Address _____
City C.C. TX State ____ Zip _____
ATTN: _____
Phone _____ Fax _____

Rush Status (must be confirmed with lab mgr.): _____
Project Name/PO#: _____ Sampler: JACOB CLEMENTS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL ALKALINITY ABSENCE/PRESENCE of CARBONATE & BICARBONATE	CHLORIDES	SULFATES	TOTAL DISSOLVED SOLIDS	Comments
BINE	8-24-04	1555	1		X		277335	1	← analyze per R. Marcus			HOLD PENDING NOTIFICATION FROM K. BRADNER. RESULTS TO K. BRADNER (ARCADIS) & R. MARCUS (ENCYCLE)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 3.1 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	8-24-04	1610	T. Evangelle	ASI	8-24-04	1610
				L. Flynn	ASI	8/25/04	0825

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278118 **Report Date:** 09/23/04
Project ID:
Sample Name: Bin E
Sample Matrix: water
Date Received: 09/21/2004 **Time:** 16:25
Date Sampled: 09/21/2004 **Time:** 16:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/22/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0208**	mg/L	0.002	<0.002	09/23/04	6010 & 200.7	---	2.42	99.83	103.6	95.84
Lead/ICP	**0.429**	mg/L	0.01	<0.01	09/23/04	6010 & 200.7	---	1.31	95.91	102.58	96.72

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Respectfully Submitted,

Dale Wagner

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CHAIN-C :USTODY www.a. /sysinc.com

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS / ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRAUNE / RICH MARCUS
Phone 8831353 Fax 8837565
Project Name/PO#: _____ Sampler _____

Bill To (if different):
Company Name ENCYCLE RCRA CLOSURE
Address _____
City _____ State _____ Zip _____
ATTN: RICH MARCUS
Phone _____ Fax _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL PBEC											RUSH TAT (Pre-Scheduled)	Standard TAT
B/NE	9-21-04	1615	1	X		278118	X	X											X												

Special Instructions (such as special QC requirements, lists, methods, etc…)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.2°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J. Clements	ARCADIS	9-21-04	1625	M. Well	ASI	9/21/04	1625
				[illegible]	ASI	9/22/04	0825

YES	✓		
NO			

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278280 **Report Date:** 09/30/04
Project ID: Encycle RCRA Closure
Sample Name: Bin E
Sample Matrix: water
Date Received: 09/28/2004 **Time:** 13:10
Date Sampled: 09/28/2004 **Time:** 11:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/29/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0307**	mg/L	0.002	<0.002	09/29/04	6010 & 200.7	---	3.25	97.42	104.7	103.2
Lead/ICP	**0.0816**	mg/L	0.01	<0.01	09/29/04	6010 & 200.7	---	1.86	89.38	103.22	98.36

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Respectfully Submitted,

Dale Wagner

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AECOM

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Encycle RCRA Closure
Project Location Corpus Christi, TX
Laboratory Analysys
Project Manager Ken Brandner
Sampler(s)/Affiliation Ken Brandner / AECOM

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Total Lead/Cadmium (1 pt. Poly w/ HNO3)						Remarks	Total
BINE	L	9/28/04 11:15	278280	1						Need 3-day turnaround	1

Sample Matrix: L = Liquid; S = Solid; A = Air

T = 2.0°C

Total No. of Bottles/ Containers: 1

					Seal Intact?
Relinquished by: Ken Brandner	Organization: AECOM	Date 9/28/04	Time 1:10 PM		
Received by: A Newman	Organization: ASI	Date 9/28/04	Time 1310		Yes No (N/A)
Relinquished by:	Organization:	Date	Time		Seal Intact?
Received by: D. Flynn	Organization: ASI	Date 9/29/04	Time 0850		Yes No N/A

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus. Invoice to Rich Marcus for Encycle RCRA Closure.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278432 **Report Date:** 10/06/04
Project ID: Encycle RCRA Closure
Sample Name: Bin E
Sample Matrix: water
Date Received: 10/04/2004 **Time:** 15:55
Date Sampled: 10/04/2004 **Time:** 15:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	10/05/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	10/05/04	6010 & 200.7	J	0.38	91.84	96.6	97.29
Lead/ICP	<0.01	mg/L	0.01	<0.01	10/05/04	6010 & 200.7	J	2.29	88.59	97.86	92.14

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Respectfully Submitted,

Dale Wagner

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Exceptions Report:

Report #/Lab ID#: 278432 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin E

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.

Notes: _____

CHAIN-O 'USTODY www.a 'sysinc.com

AnalySys Inc.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARLADIS / ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone 8831353 Fax 8837565
Project Name/PO#: _____ Sampler J. CLEMENTS

Bill To (if different):
Company Name ENCYCLE RIDA CLOSURE
Address _____
City _____ State _____ Zip _____
ATTN: RICH MARCUS
Phone _____ Fax _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL Pb & Cd										RUSH TAT (Pre-Scheduled)	Standard TAT
BIN E	10-4-04	1520	1	X		278432	~~X~~	X											+											

Special Instructions (such as special QC requirements, lists, methods, etc...) NEED 3 day TURN AROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time				
J. CLEMENTS	ARLADIS	10-4-04	1535	T. Evangelle	ASI	10-4-04	1555	YES	✓		
				[illegible]	ASI	10/5/04	0840	NO			

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

RECEIVED
MAY 20 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224420

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/18/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

5/18/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 36

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/18/2004

Job Number.: 224420
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224420-1	BIN F	Water	04/22/2004	15:45	04/22/2004	15:54

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224420 Date: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN F
Date Sampled.....: 04/22/2004
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 224420-1
Date Received.....: 04/22/2004
Time Received.....: 15:54

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/27/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/27/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/27/04	jem
SW-846 6010B	Barium (Ba), Total	0.09	0.01	mg/L	04/27/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/27/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/27/04	jem
SW-846 6010B	Copper (Cu), Total	0.07	0.01	mg/L	04/27/04	jem
SW-846 6010B	Lead (Pb), Total	0.07	0.01	mg/L	04/27/04	jem
SW-846 6010B	Manganese (Mn), Total	0.02	0.01	mg/L	04/27/04	jem
SW-846 6010B	Nickel (Ni), Total	0.02	0.01	mg/L	04/27/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/27/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/27/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/27/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/27/04	jem
SW-846 6010B	Zinc (Zn), Total	0.30	0.01	mg/L	05/13/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/23/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 93053 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042704HG	0.00488		0.00500		97.6	%	90-110	04/27/2004	1538
ICB			-0.000133							04/27/2004	1541
LCS		M042704LG	0.00560		0.0050		112.0	%	85-115	04/27/2004	1545
MB			-0.000192							04/27/2004	1547
MS	224432-1	M042704HG	0.00589		0.00500	0.000376	110.3	%	75-125	04/27/2004	1616
MSD	224432-1	M042704HG	0.00581	0.00589	0.00500	0.000376	108.7	%	75-125	04/27/2004	1618
							1.4	R	20		
CCV		M042704HG	0.00493		0.00500		98.6	%	80-120	04/27/2004	1621
CCB			0.000073							04/27/2004	1625
CCV		M042704HG	0.00490		0.00500		98.0	%	80-120	04/27/2004	1644
CCB			-0.000111							04/27/2004	1646
LCS		M042704LG	0.00560		0.0050		112.0	%	85-115	04/27/2004	1649
MB			0.000347							04/27/2004	1651
MS	224393-6	M042704HG	0.00546		0.00500	-0.000272	114.6	%	75-125	04/27/2004	1703
MSD	224393-6	M042704HG	0.00485	0.00546	0.00500	-0.000272	102.4	%	75-125	04/27/2004	1705
							11.8	R	20		
CCV		M042704HG	0.00564		0.00500		112.8	%	80-120	04/27/2004	1715
CCB			0.000163							04/27/2004	1717

Test Method.....: EPA 335.3 Batch.....: 93010 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		042704	-0.0025							04/27/2004	1400
CCV		CN40427E	0.4156		0.4000		103.9	%	90-110	04/27/2004	1401
MB		042704	0.0027							04/27/2004	1403
LCS		CN40427P	0.0450		0.05000		90.0	%	69-112	04/27/2004	1404
LCS		CN40427Q	0.0997		0.1000		99.7	%	69-112	04/27/2004	1406
LCS		CN40427R	0.1786		0.2000		89.3	%	69-112	04/27/2004	1407
MS	224392-1	CN40427S	0.0564		0.05000	0.0067	99.4	%	75-125	04/27/2004	1413
MSD	224392-1	CN40427S	0.0528	0.0564	0.05000	0.0067	92.2	%	75-125	04/27/2004	1415
							6.6	R	20		
CCB		042704	0.0002							04/27/2004	1426
CCV		CN40427E	0.4159		0.4000		104.0	%	90-110	04/27/2004	1428
MS	224455-12	CN40427S	0.0519		0.05000	0.0018	100.2	%	75-125	04/27/2004	1431
MSD	224455-12	CN40427S	0.0469	0.0519	0.05000	0.0018	90.2	%	75-125	04/27/2004	1432
							10.1	R	20		
CCB		042704	-0.0020							04/27/2004	1434
CCV		CN40427E	0.4065		0.4000		101.6	%	90-110	04/27/2004	1435

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99370107		2.00		99.7	%	90-110	04/27/2004	1224
ICV		M0368	0.97124409		1.00		97.1	%	90-110	04/27/2004	1239
ICV		M0380	0.98851635		1.00		98.9	%	90-110	04/27/2004	1256

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB			-0.0026967							04/27/2004	1314
ICB			-0.0037015							04/27/2004	1334
CCV		M0388	1.01703436		1.00		101.7	%	90-110	04/27/2004	1343
CCB			-0.0008491							04/27/2004	1356
MB		3010	-0.0023387							04/27/2004	1359
LCS		M351	0.50715337		0.500		101.4	%	85-110	04/27/2004	1406
CCV		M0388	1.03450327		1.00		103.5	%	90-110	04/27/2004	1446
CCB			0.00074884							04/27/2004	1459
CCV		M0388	0.97672727		1.00		97.7	%	90-110	04/27/2004	1525
CCB			-0.0059963							04/27/2004	1539
MB		3010	-0.0016486							04/27/2004	1542
LCS		M351	0.48573700		0.500		97.1	%	85-110	04/27/2004	1545
MS	224420-1	M351	0.50880644		0.500	-0.0025009	102.3	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.50975176	0.50975176	0.500	-0.0025009	102.5	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.97643320		1.00		97.6	%	90-110	04/27/2004	1625
CCB			-0.0015414							04/27/2004	1638
CCV		M0388	0.97844767		1.00		97.8	%	90-110	04/27/2004	1714
CCB			-0.0049514							04/27/2004	1728
CCV		M0388	0.98666822		1.00		98.7	%	90-110	04/27/2004	1808
CCB			-0.0030444							04/27/2004	1821
MD	224439-4		0.09236990			0.08739339	5.5	R	20	04/27/2004	1838
MS	224439-4	M351	0.54816220		0.500	0.05267871	99.1	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.55989745	0.54816220	0.500	0.05267871	101.4	%	75-125	04/27/2004	1850
							2.1	R	20		
CCV		M0388	0.96603751		1.00		96.6	%	90-110	04/27/2004	1902
CCB			-0.0001974							04/27/2004	1913
CCV		M0388	0.97855391		1.00		97.9	%	90-110	04/27/2004	2002
CCB			-0.0017803							04/27/2004	2015
CCV		M0388	0.96175306		1.00		96.2	%	90-110	04/27/2004	2036
CCB			0.00023349							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97531511		2.00		98.8	%	90-110	04/27/2004	1224
ICV		M0369	0.96138426		1.00		96.1	%	90-110	04/27/2004	1244
ICB			-0.0028768							04/27/2004	1314
ICB			-0.0027334							04/27/2004	1334
CCV		M0388	1.03965957		1.00		104.0	%	90-110	04/27/2004	1343
CCB			-0.0028035							04/27/2004	1356
MB		3010	-0.0029339							04/27/2004	1359
LCS		M351	0.51539072		0.500		103.1	%	90-110	04/27/2004	1406
CCV		M0388	1.06212243		1.00		106.2	%	90-110	04/27/2004	1446
CCB			-0.0026522							04/27/2004	1459
CCV		M0388	0.98487431		1.00		98.5	%	90-110	04/27/2004	1525
CCB			-0.0027140							04/27/2004	1539
MB		3010	-0.0029641							04/27/2004	1542
LCS		M351	0.50627514		0.500		101.3	%	90-110	04/27/2004	1545

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224420-1	M351	0.56839777		0.500	0.08061732	97.6	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.56530577	0.56530577	0.500	0.08061732	96.9	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98466751		1.00		98.5	%	90-110	04/27/2004	1625
CCB			-0.0024580							04/27/2004	1638
CCV		M0388	0.98976537		1.00		99.0	%	90-110	04/27/2004	1714
CCB			-0.0024644							04/27/2004	1728
CCV		M0388	0.98410641		1.00		98.4	%	90-110	04/27/2004	1808
CCB			-0.0024582							04/27/2004	1821
MD	224439-4		0.02502237			0.02577543	0.00075306	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.48481475		0.500	0.01204443	94.6	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.49346973	0.48481475	0.500	0.01204443	96.3	%	75-125	04/27/2004	1850
							1.8	R	20		
CCV		M0388	0.96454203		1.00		96.5	%	90-110	04/27/2004	1902
CCB			-0.0025332							04/27/2004	1913
CCV		M0388	0.97484569		1.00		97.5	%	90-110	04/27/2004	2002
CCB			-0.0024481							04/27/2004	2015
CCV		M0388	0.95798479		1.00		95.8	%	90-110	04/27/2004	2036
CCB			-0.0022209							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97745922		2.00		98.9	%	90-110	04/27/2004	1224
ICV		M0368	0.97944088		1.00		97.9	%	90-110	04/27/2004	1239
ICV		M0380	0.98698433		1.00		98.7	%	90-110	04/27/2004	1256
ICB			-0.0025679							04/27/2004	1314
ICB			-0.0034840							04/27/2004	1334
CCV		M0388	1.03775673		1.00		103.8	%	90-110	04/27/2004	1343
CCB			-0.0026741							04/27/2004	1356
MB		3010	-0.0025074							04/27/2004	1359
LCS		M351	0.51106108		0.500		102.2	%	90-110	04/27/2004	1406
CCV		M0388	1.05681738		1.00		105.7	%	90-110	04/27/2004	1446
CCB			-0.0032345							04/27/2004	1459
CCV		M0388	0.98394640		1.00		98.4	%	90-110	04/27/2004	1525
CCB			-0.0030920							04/27/2004	1539
MB		3010	-0.0035595							04/27/2004	1542
LCS		M351	0.49532538		0.500		99.1	%	90-110	04/27/2004	1545
MS	224420-1	M351	0.49268158		0.500	-0.0019636	98.9	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.48723409	0.48723409	0.500	-0.0019636	97.8	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98487191		1.00		98.5	%	90-110	04/27/2004	1625
CCB			-0.0034936							04/27/2004	1638
CCV		M0388	0.99544405		1.00		99.5	%	90-110	04/27/2004	1714
CCB			-0.0025700							04/27/2004	1728
CCV		M0388	0.98879497		1.00		98.9	%	90-110	04/27/2004	1808
CCB			-0.0025073							04/27/2004	1821
MD	224439-4		0.00046947			0.00075578	0.00028631	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.47725916		0.500	-0.0012207	95.7	%	75-125	04/27/2004	1845

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224439-4	M351	0.48444193	0.47725916	0.500	-0.0012207	97.1	%	75-125	04/27/2004	1850
							1.5	R	20		
CCV		M0388	0.96564532		1.00		96.6	%	90-110	04/27/2004	1902
CCB			-0.0029221							04/27/2004	1913
CCV		M0388	0.98054721		1.00		98.1	%	90-110	04/27/2004	2002
CCB			-0.0032163							04/27/2004	2015
CCV		M0388	0.96675338		1.00		96.7	%	90-110	04/27/2004	2036
CCB			-0.0032616							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97588077		2.00		98.8	%	90-110	04/27/2004	1224
ICV		M0368	0.99579316		1.00		99.6	%	90-110	04/27/2004	1239
ICV		M0380	1.03499812		1.00		103.5	%	90-110	04/27/2004	1256
ICB			-0.0025001							04/27/2004	1314
ICB			-0.0025821							04/27/2004	1334
CCV		M0388	1.04015055		1.00		104.0	%	90-110	04/27/2004	1343
CCB			-0.0026148							04/27/2004	1356
MB		3010	-0.0024782							04/27/2004	1359
LCS		M351	0.51493608		0.500		103.0	%	90-110	04/27/2004	1406
CCV		M0388	1.05493203		1.00		105.5	%	90-110	04/27/2004	1446
CCB			-0.0027051							04/27/2004	1459
CCV		M0388	0.98884504		1.00		98.9	%	90-110	04/27/2004	1525
CCB			-0.0026557							04/27/2004	1539
MB		3010	-0.0029109							04/27/2004	1542
LCS		M351	0.49410448		0.500		98.8	%	90-110	04/27/2004	1545
MS	224420-1	M351	0.49367142		0.500	0.00472386	97.8	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.49227732	0.49227732	0.500	0.00472386	97.5	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98478018		1.00		98.5	%	90-110	04/27/2004	1625
CCB			-0.0025920							04/27/2004	1638
CCV		M0388	0.99037077		1.00		99.0	%	90-110	04/27/2004	1714
CCB			-0.0029927							04/27/2004	1728
CCV		M0388	0.98404630		1.00		98.4	%	90-110	04/27/2004	1808
CCB			-0.0027941							04/27/2004	1821
MD	224439-4		0.00610959			0.00666709	0.00055750	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.46814747		0.500	0.00190959	93.2	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.47125152	0.46814747	0.500	0.00190959	93.9	%	75-125	04/27/2004	1850
							0.7	R	20		
CCV		M0388	0.95917705		1.00		95.9	%	90-110	04/27/2004	1902
CCB			-0.0028860							04/27/2004	1913
CCV		M0388	0.96677024		1.00		96.7	%	90-110	04/27/2004	2002
CCB			-0.0024252							04/27/2004	2015
CCV		M0388	0.95990953		1.00		96.0	%	90-110	04/27/2004	2036
CCB			-0.0025987							04/27/2004	2049

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99382868		2.00		99.7	%	90-110	04/27/2004	1224
ICV		M0368	1.00587649		1.00		100.6	%	90-110	04/27/2004	1239
ICV		M0380	1.01816006		1.00		101.8	%	90-110	04/27/2004	1256
ICB			-0.0054532							04/27/2004	1314
ICB			-0.0068689							04/27/2004	1334
CCV		M0388	1.05866536		1.00		105.9	%	90-110	04/27/2004	1343
CCB			-0.0061630							04/27/2004	1356
MB		3010	-0.0061440							04/27/2004	1359
LCS		M351	0.53822262		0.500		107.6	%	89-112	04/27/2004	1406
CCV		M0388	1.08800209		1.00		108.8	%	90-110	04/27/2004	1446
CCB			-0.0075763							04/27/2004	1459
CCV		M0388	1.02726572		1.00		102.7	%	90-110	04/27/2004	1525
CCB			-0.0076232							04/27/2004	1539
MB		3010	-0.0081359							04/27/2004	1542
LCS		M351	0.55484541		0.500		111.0	%	89-112	04/27/2004	1545
MS	224420-1	M351	0.58246817		0.500	0.06166842	104.2	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.57603983	0.57603983	0.500	0.06166842	102.9	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.99800993		1.00		99.8	%	90-110	04/27/2004	1625
CCB			-0.0087179							04/27/2004	1638
CCV		M0388	1.02239301		1.00		102.2	%	90-110	04/27/2004	1714
CCB			-0.0096322							04/27/2004	1728
CCV		M0388	0.99438478		1.00		99.4	%	90-110	04/27/2004	1808
CCB			-0.0087820							04/27/2004	1821
MD	224439-4		0.00185522			0.00482945	0.00297423	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.57432447		0.500	-0.0103011	116.9	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.58368700	0.57432447	0.500	-0.0103011	118.8	%	75-125	04/27/2004	1850
							1.6	R	20		
CCV		M0388	0.98462511		1.00		98.5	%	90-110	04/27/2004	1902
CCB			-0.0109372							04/27/2004	1913
CCV		M0388	0.99477319		1.00		99.5	%	90-110	04/27/2004	2002
CCB			-0.0105652							04/27/2004	2015
CCV		M0388	0.99081974		1.00		99.1	%	90-110	04/27/2004	2036
CCB			-0.0100680							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00341128		2.00		100.2	%	90-110	04/27/2004	1224
ICV		M0368	0.99649174		1.00		99.6	%	90-110	04/27/2004	1239
ICV		M0380	1.01256087		1.00		101.3	%	90-110	04/27/2004	1256
ICB			-0.0030871							04/27/2004	1314
ICB			-0.0039624							04/27/2004	1334
CCV		M0388	1.03013555		1.00		103.0	%	90-110	04/27/2004	1343
CCB			-0.0029674							04/27/2004	1356
MB		3010	-0.0028305							04/27/2004	1359
LCS		M351	0.51421235		0.500		102.8	%	87-112	04/27/2004	1406
CCV		M0388	1.04525828		1.00		104.5	%	90-110	04/27/2004	1446
CCB			-0.0038747							04/27/2004	1459

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.98310478		1.00		98.3	%	90-110	04/27/2004	1525
CCB			-0.0027648							04/27/2004	1539
MB		3010	-0.0026341							04/27/2004	1542
LCS		M351	0.50845626		0.500		101.7	%	87-112	04/27/2004	1545
MS	224420-1	M351	0.55789982		0.500	0.06944347	97.7	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.56017326	0.56017326	0.500	0.06944347	98.1	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98268599		1.00		98.3	%	90-110	04/27/2004	1625
CCB			-0.0029433							04/27/2004	1638
CCV		M0388	0.98404886		1.00		98.4	%	90-110	04/27/2004	1714
CCB			-0.0026177							04/27/2004	1728
CCV		M0388	0.98843872		1.00		98.8	%	90-110	04/27/2004	1808
CCB			-0.0013356							04/27/2004	1821
MD	224439-4		0.00222945			0.00105256	0.00117689	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.47128252		0.500	0.00056917	94.1	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.47451855	0.47128252	0.500	0.00056917	94.8	%	75-125	04/27/2004	1850
							0.7	R	20		
CCV		M0388	0.96682679		1.00		96.7	%	90-110	04/27/2004	1902
CCB			-0.0004196							04/27/2004	1913
CCV		M0388	0.97359229		1.00		97.4	%	90-110	04/27/2004	2002
CCB			-0.0037802							04/27/2004	2015
CCV		M0388	0.95956460		1.00		96.0	%	90-110	04/27/2004	2036
CCB			-0.0032279							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99893033		2.00		99.9	%	90-110	04/27/2004	1224
ICV		M0368	0.98707360		1.00		98.7	%	90-110	04/27/2004	1239
ICV		M0380	0.97226208		1.00		97.2	%	90-110	04/27/2004	1256
ICB			-0.0029627							04/27/2004	1314
ICB			-0.0033551							04/27/2004	1334
CCV		M0388	1.02678826		1.00		102.7	%	90-110	04/27/2004	1343
CCB			-0.0034462							04/27/2004	1356
MB		3010	-0.0035013							04/27/2004	1359
LCS		M351	0.51990531		0.500		104.0	%	88-110	04/27/2004	1406
CCV		M0388	1.03709288		1.00		103.7	%	90-110	04/27/2004	1446
CCB			-0.0032649							04/27/2004	1459
CCV		M0388	0.98711052		1.00		98.7	%	90-110	04/27/2004	1525
CCB			-0.0032075							04/27/2004	1539
MB		3010	-0.0033574							04/27/2004	1542
LCS		M351	0.52606060		0.500		105.2	%	88-110	04/27/2004	1545
MS	224420-1	M351	0.51495171		0.500	0.02325399	98.3	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.51029108	0.51029108	0.500	0.02325399	97.4	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98547805		1.00		98.5	%	90-110	04/27/2004	1625
CCB			-0.0036390							04/27/2004	1638
CCV		M0388	0.99421042		1.00		99.4	%	90-110	04/27/2004	1714
CCB			-0.0036520							04/27/2004	1728

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.98573099		1.00		98.6	%	90-110	04/27/2004	1808
CCB			-0.0031914							04/27/2004	1821
MD	224439-4		2.40502013			2.38135053	1.0	R	20	04/27/2004	1838
MS	224439-4	M351	1.70849822		0.500	1.29037869	83.6	%	75-125	04/27/2004	1845
MSD	224439-4	M351	1.73248307	1.70849822	0.500	1.29037869	88.4	%	75-125	04/27/2004	1850
							1.4	R	20		
CCV		M0388	0.97952602		1.00		98.0	%	90-110	04/27/2004	1902
CCB			-0.0034597							04/27/2004	1913
CCV		M0388	0.97835962		1.00		97.8	%	90-110	04/27/2004	2002
CCB			-0.0040365							04/27/2004	2015
CCV		M0388	0.97312550		1.00		97.3	%	90-110	04/27/2004	2036
CCB			-0.0041001							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98387984		2.00		99.2	%	90-110	04/27/2004	1224
ICV		M0368	0.99310551		1.00		99.3	%	90-110	04/27/2004	1239
ICV		M0380	1.00710212		1.00		100.7	%	90-110	04/27/2004	1256
ICB			-0.0031550							04/27/2004	1314
ICB			-0.0032382							04/27/2004	1334
CCV		M0388	1.04415046		1.00		104.4	%	90-110	04/27/2004	1343
CCB			-0.0030228							04/27/2004	1356
MB		3010	-0.0034994							04/27/2004	1359
LCS		M351	0.51590118		0.500		103.2	%	90-112	04/27/2004	1406
CCV		M0388	1.05937345		1.00		105.9	%	90-110	04/27/2004	1446
CCB			-0.0031679							04/27/2004	1459
CCV		M0388	0.98773208		1.00		98.8	%	90-110	04/27/2004	1525
CCB			-0.0029994							04/27/2004	1539
MB		3010	-0.0027578							04/27/2004	1542
LCS		M351	0.49701896		0.500		99.4	%	90-112	04/27/2004	1545
MS	224420-1	M351	0.50832374		0.500	0.01343593	99.0	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.50353793	0.50353793	0.500	0.01343593	98.0	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98954955		1.00		99.0	%	90-110	04/27/2004	1625
CCB			-0.0030292							04/27/2004	1638
CCV		M0388	0.99305239		1.00		99.3	%	90-110	04/27/2004	1714
CCB			-0.0025081							04/27/2004	1728
CCV		M0388	0.99349483		1.00		99.3	%	90-110	04/27/2004	1808
CCB			-0.0026501							04/27/2004	1821
MD	224439-4		0.02968462			0.03235624	0.00267162	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.49948075		0.500	0.01774299	96.3	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.50483253	0.49948075	0.500	0.01774299	97.4	%	75-125	04/27/2004	1850
							1.1	R	20		
CCV		M0388	0.96788804		1.00		96.8	%	90-110	04/27/2004	1902
CCB			-0.0026784							04/27/2004	1913
CCV		M0388	0.97897025		1.00		97.9	%	90-110	04/27/2004	2002
CCB			-0.0028338							04/27/2004	2015
CCV		M0388	0.96239474		1.00		96.2	%	90-110	04/27/2004	2036

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0031809							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02277581		2.00		101.1	%	90-110	04/27/2004	1224
ICV		M0368	0.99859436		1.00		99.9	%	90-110	04/27/2004	1239
ICV		M0380	0.99458438		1.00		99.5	%	90-110	04/27/2004	1256
ICB			0.00125196							04/27/2004	1314
CCV		M0388	1.03290011		1.00		103.3	%	90-110	04/27/2004	1343
CCB			0.00381606							04/27/2004	1356
MB		3010	-0.0058082							04/27/2004	1359
LCS		M351	0.50087625		0.500		100.2	%	82-111	04/27/2004	1406
CCV		M0388	1.05575962		1.00		105.6	%	90-110	04/27/2004	1446
CCB			-0.0059133							04/27/2004	1459
CCV		M0388	0.98693611		1.00		98.7	%	90-110	04/27/2004	1525
CCB			0.00125348							04/27/2004	1539
MB		3010	-0.0018389							04/27/2004	1542
LCS		M351	0.48723322		0.500		97.4	%	82-111	04/27/2004	1545
MS	224420-1	M351	0.49660555		0.500	-0.0071277	100.7	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.48772452	0.48772452	0.500	-0.0071277	99.0	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.98980305		1.00		99.0	%	90-110	04/27/2004	1625
CCB			-0.0093481							04/27/2004	1638
CCV		M0388	0.99896968		1.00		99.9	%	90-110	04/27/2004	1714
CCB			-0.0028035							04/27/2004	1728
CCV		M0388	0.99074353		1.00		99.1	%	90-110	04/27/2004	1808
CCB			-0.0063634							04/27/2004	1821
MD	224439-4		0.00424111			0.00572726	0.00148615	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.47041786		0.500	0.01062477	92.0	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.48547837	0.47041786	0.500	0.01062477	95.0	%	75-125	04/27/2004	1850
							3.2	R	20		
CCV		M0388	0.97819266		1.00		97.8	%	90-110	04/27/2004	1902
CCB			-0.0046299							04/27/2004	1913
CCV		M0388	0.98314398		1.00		98.3	%	90-110	04/27/2004	2002
CCB			-0.0109152							04/27/2004	2007
CCV		M0388	0.97335771		1.00		97.3	%	90-110	04/27/2004	2036
CCB			-0.0051556							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	0.98425403		1.0		98.4	%	90-110	04/27/2004	1224
ICV		M0369	0.96997844		1.00		97.0	%	90-110	04/27/2004	1244
ICB			-0.0012237							04/27/2004	1314

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB			-0.0006929							04/27/2004	1334
CCV		M0388	0.51780372		0.50		103.6	%	90-110	04/27/2004	1343
CCB			-0.0010422							04/27/2004	1356
MB		3010	-0.0009015							04/27/2004	1359
LCS		M351	0.25534232		0.25		102.1	%	87-110	04/27/2004	1406
CCV		M0388	0.52885316		0.50		105.8	%	90-110	04/27/2004	1446
CCB			-0.0006142							04/27/2004	1459
CCV		M0388	0.49390599		0.50		98.8	%	90-110	04/27/2004	1525
CCB			-0.0005518							04/27/2004	1539
MB		3010	-0.0017129							04/27/2004	1542
LCS		M351	0.24896161		0.25		99.6	%	87-110	04/27/2004	1545
CCV		M0388	0.48882076		0.50		97.8	%	90-110	04/27/2004	1625
CCB			-0.0010799							04/27/2004	1638
CCV		M0388	0.49893911		0.50		99.8	%	90-110	04/27/2004	1714
CCB			-0.0014854							04/27/2004	1728
CCV		M0388	0.48943499		0.50		97.9	%	90-110	04/27/2004	1808
CCB			-0.0009520							04/27/2004	1821
MD	224439-4		-0.0036195			-0.0030420	0.0005775	A	0.0050000	04/27/2004	1838
MS	224439-4	M351	0.16188364		0.25	-0.0022491	65.7	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.21155479	0.16188364	0.25	-0.0022491	85.5	%	75-125	04/27/2004	1850
							26.6	R	20		
CCV		M0388	0.48297467		0.50		96.6	%	90-110	04/27/2004	1902
CCB			-0.0006580							04/27/2004	1913
CCV		M0388	0.48856030		0.50		97.7	%	90-110	04/27/2004	2002
CCB			-0.0016889							04/27/2004	2015
CCV		M0388	0.48372796		0.50		96.7	%	90-110	04/27/2004	2036
CCB			-0.0011699							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.99592752		2.00		99.8	%	90-110	04/27/2004	1227
ICV		M0374	1.02550292		1.00		102.6	%	90-110	04/27/2004	1304
ICB			-0.0005661							04/27/2004	1314
ICB			0.00215794							04/27/2004	1334
CCV		M0388	2.15136305		2.00		107.6	%	90-110	04/27/2004	1343
CCB			-0.0031044							04/27/2004	1356
MB		3010	-0.0080054							04/27/2004	1359
LCS		M351	1.04675659		1.00		104.7	%	83-118	04/27/2004	1406
CCV		M0388	2.16365548		2.00		108.2	%	90-110	04/27/2004	1446
CCB			-0.0063899							04/27/2004	1459
CCV		M0388	2.03419734		2.00		101.7	%	90-110	04/27/2004	1525
CCB			-0.0058057							04/27/2004	1539
MB		3010	-0.0089517							04/27/2004	1542
LCS		M351	1.10322524		1.00		110.3	%	83-118	04/27/2004	1545
MS	224420-1	M351	1.04325164		1.00	-0.0256226	106.9	%	75-125	04/27/2004	1614
MSD	224420-1	M351	1.07644822	1.07644822	1.00	-0.0256226	110.2	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	2.06817735		2.00		103.4	%	90-110	04/27/2004	1625

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0006388							04/27/2004	1638
CCV		M0388	2.03605500		2.00		101.8	%	90-110	04/27/2004	1714
CCB			-0.0040141							04/27/2004	1728
CCV		M0388	2.04931697		2.00		102.5	%	90-110	04/27/2004	1808
CCB			-0.0058097							04/27/2004	1821
MD	224439-4		-0.0184543			-0.0176719	0.0007824	A	0.0200000	04/27/2004	1838
MS	224439-4	M351	1.00245754		1.00	-0.0257329	102.8	%	75-125	04/27/2004	1845
MSD	224439-4	M351	1.03417264	1.00245754	1.00	-0.0257329	106.0	%	75-125	04/27/2004	1850
							3.1	R	20		
CCV		M0388	1.99778951		2.00		99.9	%	90-110	04/27/2004	1902
CCB			0.00430823							04/27/2004	1913
CCV		M0388	2.02066310		2.00		101.0	%	90-110	04/27/2004	2002
CCB			-0.0047347							04/27/2004	2015
CCV		M0388	1.97516669		2.00		98.8	%	90-110	04/27/2004	2036
CCB			-0.0058433							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97538970		2.00		98.8	%	90-110	04/27/2004	1224
ICV		M0368	0.96991702		1.00		97.0	%	90-110	04/27/2004	1239
ICV		M0380	0.98485394		1.00		98.5	%	90-110	04/27/2004	1256
ICB			-0.0037173							04/27/2004	1314
ICB			-0.0034459							04/27/2004	1334
CCV		M0388	1.01659393		1.00		101.7	%	90-110	04/27/2004	1343
CCB			-0.0021860							04/27/2004	1356
MB		3010	-0.0024784							04/27/2004	1359
LCS		M351	0.50288484		0.500		100.6	%	89-110	04/27/2004	1406
CCV		M0388	1.04057877		1.00		104.1	%	90-110	04/27/2004	1446
CCB			-0.0023135							04/27/2004	1459
CCV		M0388	0.96812709		1.00		96.8	%	90-110	04/27/2004	1525
CCB			-0.0020077							04/27/2004	1539
MB		3010	-0.0029175							04/27/2004	1542
LCS		M351	0.48226050		0.500		96.5	%	89-110	04/27/2004	1545
MS	224420-1	M351	0.49172077		0.500	-0.0006227	98.5	%	75-125	04/27/2004	1614
MSD	224420-1	M351	0.48679109	0.48679109	0.500	-0.0006227	97.5	%	75-125	04/27/2004	1619
							0.0	R	20		
CCV		M0388	0.97258585		1.00		97.3	%	90-110	04/27/2004	1625
CCB			-0.0029820							04/27/2004	1638
CCV		M0388	0.98401094		1.00		98.4	%	90-110	04/27/2004	1714
CCB			-0.0032374							04/27/2004	1728
CCV		M0388	0.97853735		1.00		97.9	%	90-110	04/27/2004	1808
CCB			-0.0031572							04/27/2004	1821
MD	224439-4		0.00040823			0.00118569	0.00077746	A	0.0100000	04/27/2004	1838
MS	224439-4	M351	0.49658492		0.500	-0.0004787	99.4	%	75-125	04/27/2004	1845
MSD	224439-4	M351	0.50290947	0.49658492	0.500	-0.0004787	100.7	%	75-125	04/27/2004	1850
							1.3	R	20		
CCV		M0388	0.96237475		1.00		96.2	%	90-110	04/27/2004	1902
CCB			-0.0026376							04/27/2004	1913

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224420 Report Date.: 05/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 93036 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.96846446		1.00		96.8	%	90-110	04/27/2004	2002
CCB			-0.0020303							04/27/2004	2015
CCV		M0388	0.95587513		1.00		95.6	%	90-110	04/27/2004	2036
CCB			-0.0027295							04/27/2004	2049

Test Method.....: SW-846 6010B Batch.....: 93687 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0386	10.2207		10.0		102.2	%	90-110	05/13/2004	1407
ICV		M0368	1.0420		1.00		104.2	%	90-110	05/13/2004	1412
ICV		M0380	1.0459		1.00		104.6	%	90-110	05/13/2004	1424
ICB			0.0083							05/13/2004	1435
CCV		M0389	4.9616		5.00		99.2	%	90-110	05/13/2004	1445
CCB			0.0051							05/13/2004	1507
CCV		M0389	4.9089		5.00		98.2	%	90-110	05/13/2004	1621
CCB			0.0020							05/13/2004	1628
MB		3010	0.0058							05/13/2004	1630
LCS		M351	0.5133		0.500		102.7	%	80-120	05/13/2004	1635
MS	224420-1	M351	0.8413		0.500	0.3383	100.6	%	75-125	05/13/2004	1649
MSD	224420-1	M351	0.8525	0.8413	0.500	0.3383	102.8	%	75-125	05/13/2004	1651
							1.3	R	20		
CCV		M0389	5.0345		5.00		100.7	%	90-110	05/13/2004	1731
CCB			0.0058							05/13/2004	1733

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

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Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D260205

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

May 10, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 10, 2004

STL LOT NUMBER: **I4D260205**
PO/CONTRACT: 224420

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the sample received under chain of custody by Severn Trent Laboratories (STL) on April 26, 2004. This sample is associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D260205

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224420-1 04/22/04 15:45 001				
Cadmium	12.7	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D260205

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D260205

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GEX5C	001	224420-1	04/22/04	15:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D260205

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4123018	4123006
	WATER	SW846 6010B		4120181	4120054

STL CORPUS CHRISTI

Client Sample ID: 224420-1

TOTAL Metals

Lot-Sample #...: I4D260205-001 Matrix.....: WATER
Date Sampled...: 04/22/04 15:45 Date Received..: 04/24/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4120181						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/28-05/04/04	GEX5C1AE
		Dilution Factor: 1		Analysis Time..: 11:42	MS Run #.....: 4120054	
Prep Batch #...: 4123018						
Cadmium	12.7	**1.0**	**ug/L**	**SW846 6020**	**05/01-05/03/04**	**GEX5C1AA**
		Dilution Factor: 1		Analysis Time..: 16:08	MS Run #.....: 4123006	
Antimony	ND	1.0	ug/L	SW846 6020	05/01-05/03/04	GEX5C1AC
		Dilution Factor: 1		Analysis Time..: 16:08	MS Run #.....: 4123006	
Thallium	ND	1.0	ug/L	SW846 6020	05/01-05/03/04	GEX5C1AD
		Dilution Factor: 1		Analysis Time..: 16:08	MS Run #.....: 4123006	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D260205 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D290000-181 **Prep Batch #...:** 4120181						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/28-05/04/04	GE5591AN
		Dilution Factor: 1				
		Analysis Time..: 11:32				
MB Lot-Sample #: I4E020000-018 **Prep Batch #...:** 4123018						
Antimony	ND	1.0	ug/L	SW846 6020	05/01-05/03/04	GFDTL1AC
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Cadmium	ND	1.0	ug/L	SW846 6020	05/01-05/03/04	GFDTL1AA
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Thallium	ND	1.0	ug/L	SW846 6020	05/01-05/03/04	GFDTL1AD
		Dilution Factor: 1				
		Analysis Time..: 15:56				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D260205 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D290000-181 **Prep Batch #...:** 4120181					
Bismuth	102	(80 - 120)	SW846 6010B	04/28-05/04/04	GE5591A5
		Dilution Factor: 1	Analysis Time..: 11:37		
LCS Lot-Sample#: I4E020000-018 **Prep Batch #...:** 4123018					
Cadmium	102	(80 - 120)	SW846 6020	05/01-05/03/04	GFDTL1AE
		Dilution Factor: 1	Analysis Time..: 16:02		
Antimony	101	(80 - 120)	SW846 6020	05/01-05/03/04	GFDTL1AF
		Dilution Factor: 1	Analysis Time..: 16:02		
Thallium	107	(80 - 120)	SW846 6020	05/01-05/03/04	GFDTL1AG
		Dilution Factor: 1	Analysis Time..: 16:02		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D260205 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D290000-181 **Prep Batch #...:** 4120181							
Bismuth	0.500	0.512	mg/L	102	SW846 6010B	04/28-05/04/04	GE5591A5
			Dilution Factor: 1		Analysis Time..: 11:37		
LCS Lot-Sample#: I4E020000-018 **Prep Batch #...:** 4123018							
Cadmium	50.0	50.9	ug/L	102	SW846 6020	05/01-05/03/04	GFDTL1AE
			Dilution Factor: 1		Analysis Time..: 16:02		
Antimony	50.0	50.5	ug/L	101	SW846 6020	05/01-05/03/04	GFDTL1AF
			Dilution Factor: 1		Analysis Time..: 16:02		
Thallium	50.0	53.6	ug/L	107	SW846 6020	05/01-05/03/04	GFDTL1AG
			Dilution Factor: 1		Analysis Time..: 16:02		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D260205 **Matrix.....:** WATER
Date Sampled...: 04/20/04 08:06 **Date Received..:** 04/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4D210320-005 **Prep Batch #...:** 4120181							
Bismuth	101	(75 - 125)			SW846 6010B	04/28-05/04/04	GELQA1D9
	101	(75 - 125)	0.25	(0-20)	SW846 6010B	04/28-05/04/04	GELQA1EA
		Dilution Factor: 1					
		Analysis Time..: 12:37					
		MS Run #.....: 4120054					
MS Lot-Sample #: D4D210320-005 **Prep Batch #...:** 4123018							
Antimony	102	(80 - 120)			SW846 6020	05/01-05/03/04	GELQA1D3
	101	(80 - 120)	0.92	(0-20)	SW846 6020	05/01-05/03/04	GELQA1D4
		Dilution Factor: 1					
		Analysis Time..: 16:31					
		MS Run #.....: 4123006					
Cadmium	99	(80 - 120)			SW846 6020	05/01-05/03/04	GELQA1D0
	99	(80 - 120)	0.42	(0-20)	SW846 6020	05/01-05/03/04	GELQA1D1
		Dilution Factor: 1					
		Analysis Time..: 16:31					
		MS Run #.....: 4123006					
Thallium	102	(80 - 120)			SW846 6020	05/01-05/03/04	GELQA1D6
	102	(80 - 120)	0.60	(0-20)	SW846 6020	05/01-05/03/04	GELQA1D7
		Dilution Factor: 1					
		Analysis Time..: 16:31					
		MS Run #.....: 4123006					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D260205 **Matrix.....:** WATER
Date Sampled...: 04/20/04 08:06 **Date Received..:** 04/21/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4D210320-005 **Prep Batch #...:** 4120181									
Bismuth									
	ND	0.500	0.505	mg/L	101		SW846 6010B	04/28-05/04/04	GELQA1D9
	ND	0.500	0.504	mg/L	101	0.25	SW846 6010B	04/28-05/04/04	GELQA1EA
			Dilution Factor: 1						
			Analysis Time..: 12:37						
			MS Run #.....: 4120054						
MS Lot-Sample #: D4D210320-005 **Prep Batch #...:** 4123018									
Antimony									
	1.5	50.0	52.3	ug/L	102		SW846 6020	05/01-05/03/04	GELQA1D3
	1.5	50.0	51.8	ug/L	101	0.92	SW846 6020	05/01-05/03/04	GELQA1D4
			Dilution Factor: 1						
			Analysis Time..: 16:31						
			MS Run #.....: 4123006						
Cadmium									
	3.1	50.0	52.8	ug/L	99		SW846 6020	05/01-05/03/04	GELQA1D0
	3.1	50.0	52.5	ug/L	99	0.42	SW846 6020	05/01-05/03/04	GELQA1D1
			Dilution Factor: 1						
			Analysis Time..: 16:31						
			MS Run #.....: 4123006						
Thallium									
	ND	50.0	51.1	ug/L	102		SW846 6020	05/01-05/03/04	GELQA1D6
	ND	50.0	50.8	ug/L	102	0.60	SW846 6020	05/01-05/03/04	GELQA1D7
			Dilution Factor: 1						
			Analysis Time..: 16:31						
			MS Run #.....: 4123006						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I40260205

RECEIVED BY: BJ

COC NUMBER:

DATE/TIME RECEIVED: 4/26/04 0945

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4/26/04 1030

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: LOG-IN REVIEWED:

Number of Shipping Containers Received with Chain of Custody: 1

CC

DW

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: BJ

Container Sealed: ☑ YES ☐ NO — Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: BJ **IR THERMOMETER #:** P-5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** BJ

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☐ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: BE

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: Ned Black Date: 5/10/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

I4N260205

No. 23721

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (Sb, Ca, Ti)	6010 (Zn)	REMARKS/PRECAUTIONS
	224420-1	4/22/04	15:45	Water	PSUB	HNO3	1	X	X	Attn: Neal Salcher ASARCO Piciry
									1	

2nd 4/24/04 BD

LAB JOB NO.

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/23/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME: 14:15	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Bill Pat	4/24/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME: 0945	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/18/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
` - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Encycle RCRA Closure
Project Location Encycle, Corpus Christi, TX
Laboratory STL
Project Manager Ken Brandner
Sampler(s)/Affiliation Marc Buentello/ARCADIS

12.3°C
Just sampled
224420

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Cyanide (1 gt. poly w/ NaOH)	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 1pt. poly w/ HNO3)					Remarks	Total
BIN F	L	4/22/04 1545		1	2					Need low detection limits	3

ANALYSIS / METHOD / SIZE

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers

Relinquished by: [signature]	Organization: ARCADIS	Date 4/22/04	Time 1532	Seal Intact?		
Received by: [signature]	Organization: STL-CC	Date 4/22/04	Time 1532	Yes	No	(N/A)
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?		
Received by: _____	Organization: _____	Date / /	Time _____	Yes	No	N/A

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus. Invoice to Rich Marcus for RCRA closure. Need low detection limits. Normal turnaround time.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277301 **Report Date:** 08/31/04
Project ID: Encycle RCRA Closure
Sample Name: Bin F
Sample Matrix: water
Date Received: 08/23/2004 **Time:** 16:15
Date Sampled: 08/23/2004 **Time:** 16:05

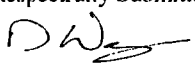
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	08/27/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0072**	mg/L	0.002	<0.002	08/31/04	6010 & 200.7	---	0.18	100.08	103.5	92.64
Lead/ICP	**0.0432**	mg/L	0.01	<0.01	08/31/04	6010 & 200.7	---	0.3	94.86	104.42	92.78

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,



Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. N[illegible] _____

CHAIN-OF-CUSTODY RECORD

Pag. 1 of 1

Project Number/Name ENCYCLE RCRA CLOSURE

Project Location C.C., TX

Laboratory ANALYSIS

Project Manager KEN BRADNER

Sampler(s)/Affiliation JACOB CLEMENTS / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TOTAL CADMIUM & LEAD	1 PT POLY W/ HNO_3					Remarks	Total
BIN F	L	8-23-04 1605	277301	1	←					HOLD — ~~PENDING NOTIFICATION FROM K BRADNER~~	1
					8/26/04	analyze	per	Richard	Marcus		

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 1

Relinquished by: J. CLEMENTS	Organization: ARCADIS	Date 8/23/04	Time 1615	Seal Intact? Yes No N/A
Received by: [illegible]	Organization: ASI	Date 8/23/04	Time 1615	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by: [illegible]	Organization: ASI	Date 8/24/04	Time 0830	

Special Instructions/Remarks: HOLD RESULTS PENDING NOTIFICATION FROM K. BRADNER. RESULTS TO K BRADNER (ARCADIS) & R. MARCUS (ENCYCLE). T: 2.0°C

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277700 **Report Date:** 09/10/04
Project ID: Encycle RCRA Closure
Sample Name: Bin F
Sample Matrix: water
Date Received: 09/07/2004 **Time:** 16:00
Date Sampled: 09/07/2004 **Time:** 11:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0062**	mg/L	0.002	<0.002	09/10/04	6010 & 200.7	---	0.59	102.33	103.3	102.9
Lead/ICP	**0.173**	mg/L	0.01	<0.01	09/10/04	6010 & 200.7	---	0.28	100.25	103.58	102.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277701 **Report Date:** 09/10/04
Project ID: Encycle RCRA Closure
Sample Name: Bin F
Sample Matrix: water
Date Received: 09/07/2004 **Time:** 16:00
Date Sampled: 09/07/2004 **Time:** 15:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/09/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/10/04	6010 & 200.7	J	0.59	102.33	103.3	102.9
Lead/ICP	0.0488	mg/L	0.01	<0.01	09/10/04	6010 & 200.7	---	0.28	100.25	103.58	102.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277701 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin F

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes:

10499

CHAIN-C :USTODY

www.a[illegible]sysinc.com

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name: ENCYCLE/ARCADIS
Address: 711 N. Carancahua
City: CC State: TX Zip: 78475
ATTN: KENBRADNER/RICH MARCUS
Phone: 883 1353 Fax: 883 7565
Project Name/PO#: ENCYCLE RCRA CLOSURE Sampler: JC/OG

Bill To (if different):

Company Name: ENCYCLE RCRA CLOSURE
Address:
City: State: Zip:
ATTN: RICH MARCUS
Phone: Fax:

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Water	Wastewater	Waste	Soil	Other (Specify)	TOTAL Cd & Pb	1 PT poly									RUSH TAT (Pre-Scheduled)	Standard TAT
BINF	9-7-04	1150	1	X		277700		X						X					X	~~HOLD~~ ANALYZE										
BINF	9-7-04	1545	1	X		277701		X						X					X	HOLD → PENDING NOTIFICATION FROM KEN BRADNER										
																			analyze per R. Marcus											

Special Instructions (such as special QC requirements, lists, methods, etc…)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.2°C

Sample Relinquished By				Sample Received By							
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓		
J. Clements	ARCADIS	9-7-04	1600	M. Wall	ASI	9/7/04	1600	NO			
				[illegible]	ASI	9/8/04	0850				

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278260 **Report Date:** 09/29/04
Project ID:
Sample Name: Bin F
Sample Matrix: water
Date Received: 09/27/2004 **Time:** 16:05
Date Sampled: 09/27/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/28/04	3015	---	---	---	---	---
Lead/ICP	**0.0122**	mg/L	0.01	<0.01	09/28/04	6010 & 200.7	---	0.87	92.84	97.58	90.77

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

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CHAIN-OF-CUSTODY

www.analysysinc.com

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name: ARCADIS / ENCYCLE

Address: 711 N. CARANCAHUA

City: CC State: TX Zip: 78475

ATTN: KEN BRADNER / RICH MARCUS

Phone: 8831353 Fax: 8837565

Project Name/PO#: _____ Sampler _____

Bill To (if different):

Company Name: ENCYCLE RCRA CLOSURE

Address: _____

City: _____ State: _____ Zip: _____

ATTN: RICH MARCUS

Phone: _____ Fax: _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL LOAD											RUSH TAT (Pre-Scheduled)	Standard TAT
BIN F	9-27-04	1600	1	X		278260	X	X											X												

Special Instructions (such as special QC requirements, lists, methods, etc...) NEED 3 DAY TURNAROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J. Clements	ARCADIS	9-27-04	1605	L Plowman	ASI	9-27-04	1605
				D Flynn	ASI	9/28/04	0845

YES ✓

NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

RECEIVED
MAY 10 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224400

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/05/2004

Olga Verónica McDonald
Signature

5/5/04
Date

Name: Olga V. McDonald

Title: Project Manager

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SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/05/2004

Job Number.: 224400
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224400-1	BIN GG	Water	04/21/2004	15:40	04/21/2004	16:45
224400-2	BIN G	Water	04/21/2004	16:10	04/21/2004	16:45

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224400 Date: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN GG
Date Sampled.....: 04/21/2004
Time Sampled.....: 15:40
Sample Matrix.....: Water

Laboratory Sample ID: 224400-1
Date Received.....: 04/21/2004
Time Received.....: 16:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/22/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/27/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Barium (Ba), Total	0.09	0.01	mg/L	04/23/04	jem
SW-846 6010B	Chromium (Cr), Total	0.04	0.01	mg/L	04/23/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Copper (Cu), Total	0.15	0.01	mg/L	04/23/04	jem
SW-846 6010B	Lead (Pb), Total	0.26	0.01	mg/L	04/23/04	jem
SW-846 6010B	Manganese (Mn), Total	0.04	0.01	mg/L	04/23/04	jem
SW-846 6010B	Nickel (Ni), Total	0.19	0.01	mg/L	04/23/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/23/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Zinc (Zn), Total	1.73	0.01	mg/L	04/23/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/22/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224400 Date: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN G
Date Sampled.....: 04/21/2004
Time Sampled.....: 16:10
Sample Matrix.....: Water

Laboratory Sample ID: 224400-2
Date Received.....: 04/21/2004
Time Received.....: 16:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/22/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/27/04	dev
SW-846 6010B	Arsenic (As), Total	0.03	0.01	mg/L	04/23/04	jem
SW-846 6010B	Barium (Ba), Total	0.11	0.01	mg/L	04/23/04	jem
SW-846 6010B	Chromium (Cr), Total	0.27	0.01	mg/L	04/23/04	jem
SW-846 6010B	Cobalt (Co), Total	0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Copper (Cu), Total	0.46	0.01	mg/L	04/23/04	jem
SW-846 6010B	Lead (Pb), Total	0.75	0.01	mg/L	04/23/04	jem
SW-846 6010B	Manganese (Mn), Total	0.07	0.01	mg/L	04/23/04	jem
SW-846 6010B	Nickel (Ni), Total	0.23	0.01	mg/L	04/23/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/23/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/23/04	jem
SW-846 6010B	Zinc (Zn), Total	5.28	0.01	mg/L	04/23/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/22/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92848 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042204HG	0.00468		0.00500		93.6	%	90-110	04/22/2004	1535
ICB			0.000050							04/22/2004	1539
LCS		M042204LG	0.00476		0.0050		95.2	%	85-115	04/22/2004	1542
MB			-0.000076							04/22/2004	1544
MS	224392-1	M042204HG	0.00520		0.00500	0.000414	95.7	%	75-125	04/22/2004	1550
MSD	224392-1	M042204HG	0.00519	0.00520	0.00500	0.000414	95.5	%	75-125	04/22/2004	1552
							0.2	R	20		
CCV		M042204HG	0.00489		0.00500		97.8	%	80-120	04/22/2004	1609
CCB			0.000156							04/22/2004	1611
CCV		M042204HG	0.00471		0.00500		94.2	%	80-120	04/22/2004	1635
CCB			0.000321							04/22/2004	1639

Test Method.....: EPA 335.3 Batch.....: 93010 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		042704	-0.0025							04/27/2004	1400
CCV		CN40427E	0.4156		0.4000		103.9	%	90-110	04/27/2004	1401
MB		042704	0.0027							04/27/2004	1403
LCS		CN40427P	0.0450		0.05000		90.0	%	69-112	04/27/2004	1404
LCS		CN40427Q	0.0997		0.1000		99.7	%	69-112	04/27/2004	1406
LCS		CN40427R	0.1786		0.2000		89.3	%	69-112	04/27/2004	1407
MS	224392-1	CN40427S	0.0564		0.05000	0.0067	99.4	%	75-125	04/27/2004	1413
MSD	224392-1	CN40427S	0.0528	0.0564	0.05000	0.0067	92.2	%	75-125	04/27/2004	1415
							6.6	R	20		
CCB		042704	0.0002							04/27/2004	1426
CCV		CN40427E	0.4159		0.4000		104.0	%	90-110	04/27/2004	1428
MS	224455-12	CN40427S	0.0519		0.05000	0.0018	100.2	%	75-125	04/27/2004	1431
MSD	224455-12	CN40427S	0.0469	0.0519	0.05000	0.0018	90.2	%	75-125	04/27/2004	1432
							10.1	R	20		
CCB		042704	-0.0020							04/27/2004	1434
CCV		CN40427E	0.4065		0.4000		101.6	%	90-110	04/27/2004	1435

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.96829822		2.00		98.4	%	90-110	04/23/2004	1346
ICV		M0368	0.99332280		1.00		99.3	%	90-110	04/23/2004	1405
ICV		M0380	0.98853078		1.00		98.9	%	90-110	04/23/2004	1413
CCV		M0388	0.97549621		1.00		97.5	%	90-110	04/23/2004	1448
CCB			0.00139881							04/23/2004	1501
CCV		M0388	0.99004403		1.00		99.0	%	90-110	04/23/2004	1607
CCB			0.00164688							04/23/2004	1612
MB		3010	0.00123756							04/23/2004	1623
LCS		M351	0.50729948		0.500		101.5	%	85-110	04/23/2004	1627
CCB			-0.0059259							04/23/2004	1632

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0009137							04/23/2004	1648
MB		3010.	-0.0030584							04/23/2004	1651
LCS		M351	0.51197384		0.500		102.4	%	85-110	04/23/2004	1655
CCV		M0388	0.98152886		1.00		98.2	%	90-110	04/23/2004	1712
CCB			0.00281599							04/23/2004	1726
MS	224389-3	M351	0.57130922		0.500	0.05677063	102.9	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.56779179	0.57130922	0.500	0.05677063	102.2	%	75-125	04/23/2004	1745
							0.6	R	20		
CCV		M0388	0.98842443		1.00		98.8	%	90-110	04/23/2004	1813
CCB			0.00005820							04/23/2004	1826
CCV		M0388	0.98136312		1.00		98.1	%	90-110	04/23/2004	1909
CCB			0.00030831							04/23/2004	1923
MB		3010.	-0.0009566							04/23/2004	1936
LCS		M351	0.50470982		0.500		100.9	%	85-110	04/23/2004	1940
MS	224400-2	M351	0.55484347		0.500	0.02783188	105.4	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.53628240	0.55484347	0.500	0.02783188	101.7	%	75-125	04/23/2004	1959
							3.4	R	20		
CCV		M0388	0.99279893		1.00		99.3	%	90-110	04/23/2004	2013
CCB			0.00343264							04/23/2004	2026
MB		3010	0.00125993							04/23/2004	2029
LCS		M351	0.51652327		0.500		103.3	%	85-110	04/23/2004	2033
MB		3010	0.00196892							04/23/2004	2053
LCS		M351	0.47058141		0.500		94.1	%	85-110	04/23/2004	2059
B			-0.0011343							04/23/2004	2104
CCV		M0388	0.98357547		1.00		98.4	%	90-110	04/23/2004	2122
CCB			0.00032141							04/23/2004	2136
MD	224404-6		-0.0036763			-0.0024790	0.0011973	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.50140550		0.500	-0.0024790	100.8	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.48509597	0.50140550	0.500	-0.0024790	97.5	%	75-125	04/23/2004	2154
							3.3	R	20		
MB		3010	-0.0007353							04/23/2004	2204
LCS		M351	0.50059369		0.500		100.1	%	85-110	04/23/2004	2211
CCV		M0388	0.98668479		1.00		98.7	%	90-110	04/23/2004	2228
CCB			0.00303725							04/23/2004	2241
MS	224401-1	M351	0.51643160		0.500	0.00673741	101.9	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.50516519	0.51643160	0.500	0.00673741	99.7	%	75-125	04/23/2004	2253
							2.2	R	20		
CCV		M0388	0.97867439		1.00		97.9	%	90-110	04/23/2004	2322
CCB			0.00107823							04/23/2004	2333
CCV		M0388	0.95395439		1.00		95.4	%	90-110	04/24/2004	0014
CCB			-0.0027395							04/24/2004	0028

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.95937343		2.00		98.0	%	90-110	04/23/2004	1346
ICV		M0369	1.00606914		1.00		100.6	%	90-110	04/23/2004	1410
CCV		M0388	0.98684503		1.00		98.7	%	90-110	04/23/2004	1448
CCB			-0.0026235							04/23/2004	1501

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.99633476		1.00		99.6	%	90-110	04/23/2004	1607
CCB			-0.0024693							04/23/2004	1612
MB		3010	-0.0026364							04/23/2004	1623
LCS		M351	0.51347305		0.500		102.7	%	90-110	04/23/2004	1627
CCB			-0.0028072							04/23/2004	1632
MB		3010	-0.0027030							04/23/2004	1648
MB		3010.	-0.0008108							04/23/2004	1651
LCS		M351	0.50291554		0.500		100.6	%	90-110	04/23/2004	1655
CCV		M0388	0.98858590		1.00		98.9	%	90-110	04/23/2004	1712
CCB			-0.0026828							04/23/2004	1726
MS	224389-3	M351	0.50420095		0.500	0.02101040	96.6	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.50166959	0.50420095	0.500	0.02101040	96.1	%	75-125	04/23/2004	1745
							0.5	R	20		
CCV		M0388	0.99617525		1.00		99.6	%	90-110	04/23/2004	1813
CCB			-0.0025319							04/23/2004	1826
CCV		M0388	0.99048428		1.00		99.0	%	90-110	04/23/2004	1909
CCB			-0.0024689							04/23/2004	1923
MB		3010.	-0.0023367							04/23/2004	1936
LCS		M351	0.50779088		0.500		101.6	%	90-110	04/23/2004	1940
MS	224400-2	M351	0.61178413		0.500	0.10367291	101.6	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.60551205	0.61178413	0.500	0.10367291	100.4	%	75-125	04/23/2004	1959
							1.0	R	20		
CCV		M0388	0.98786265		1.00		98.8	%	90-110	04/23/2004	2013
CCB			-0.0027109							04/23/2004	2026
MB		3010	-0.0027261							04/23/2004	2029
LCS		M351	0.51672658		0.500		103.3	%	90-110	04/23/2004	2033
MB		3010	-0.0026237							04/23/2004	2053
LCS		M351	0.47575230		0.500		95.2	%	90-110	04/23/2004	2059
B			-0.0028832							04/23/2004	2104
CCV		M0388	0.98963482		1.00		99.0	%	90-110	04/23/2004	2122
CCB			-0.0025159							04/23/2004	2136
MD	224404-6		0.00096097			-0.0021902	0.00315117	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.50399963		0.500	-0.0021902	101.2	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.49022228	0.50399963	0.500	-0.0021902	98.5	%	75-125	04/23/2004	2154
							2.8	R	20		
MB		3010	-0.0028421							04/23/2004	2204
LCS		M351	0.50386941		0.500		100.8	%	90-110	04/23/2004	2211
CCV		M0388	0.99471362		1.00		99.5	%	90-110	04/23/2004	2228
CCB			-0.0027082							04/23/2004	2241
MS	224401-1	M351	0.67049287		0.500	0.17270018	99.6	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.65365262	0.67049287	0.500	0.17270018	96.2	%	75-125	04/23/2004	2253
							2.5	R	20		
CCV		M0388	0.98177019		1.00		98.2	%	90-110	04/23/2004	2322
CCB			-0.0023778							04/23/2004	2333
CCV		M0388	0.96068251		1.00		96.1	%	90-110	04/24/2004	0014
CCB			-0.0025029							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97299677		2.00		98.6	%	90-110	04/23/2004	1346
ICV		M0368	1.00778829		1.00		100.8	%	90-110	04/23/2004	1405
ICV		M0380	1.00436620		1.00		100.4	%	90-110	04/23/2004	1413
CCV		M0388	0.98561963		1.00		98.6	%	90-110	04/23/2004	1448
CCB			-0.0035594							04/23/2004	1501
ICV		M368B	0.52708724		0.500		105.4	%	90-110	04/23/2004	1602
CCV		M0388	0.99854416		1.00		99.9	%	90-110	04/23/2004	1607
CCB			-0.0027838							04/23/2004	1612
MB		3010	-0.0035575							04/23/2004	1623
LCS		M351	0.51155568		0.500		102.3	%	90-110	04/23/2004	1627
CCB			-0.0045349							04/23/2004	1632
MB		3010	-0.0038075							04/23/2004	1648
MB		3010.	-0.0024236							04/23/2004	1651
LCS		M351	0.50323101		0.500		100.6	%	90-110	04/23/2004	1655
CCV		M0388	0.99226831		1.00		99.2	%	90-110	04/23/2004	1712
CCB			-0.0035914							04/23/2004	1726
MS	224389-3	M351	0.48909940		0.500	-0.0008290	98.0	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.48758779	0.48909940	0.500	-0.0008290	97.7	%	75-125	04/23/2004	1745
							0.3	R	20		
CCV		M0388	0.99899137		1.00		99.9	%	90-110	04/23/2004	1813
CCB			-0.0037628							04/23/2004	1826
CCV		M0388	0.99435115		1.00		99.4	%	90-110	04/23/2004	1909
CCB			-0.0043679							04/23/2004	1923
MB		3010.	-0.0037951							04/23/2004	1936
LCS		M351	0.50759209		0.500		101.5	%	90-110	04/23/2004	1940
MS	224400-2	M351	0.79587040		0.500	0.27359123	104.5	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.79633305	0.79587040	0.500	0.27359123	104.5	%	75-125	04/23/2004	1959
							0.1	R	20		
CCV		M0388	0.99623593		1.00		99.6	%	90-110	04/23/2004	2013
CCB			-0.0044862							04/23/2004	2026
MB		3010	-0.0039829							04/23/2004	2029
LCS		M351	0.51988002		0.500		104.0	%	90-110	04/23/2004	2033
MB		3010	-0.0044235							04/23/2004	2053
LCS		M351	0.47898674		0.500		95.8	%	90-110	04/23/2004	2059
B			-0.0047109							04/23/2004	2104
CCV		M0388	1.01306217		1.00		101.3	%	90-110	04/23/2004	2122
CCB			0.00385954							04/23/2004	2136
MD	224404-6		0.00271687			0.00036996	0.00234691	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.51280614		0.500	0.00036996	102.5	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.50250892	0.51280614	0.500	0.00036996	100.4	%	75-125	04/23/2004	2154
							2.0	R	20		
MB		3010	-0.0019301							04/23/2004	2204
LCS		M351	0.51060262		0.500		102.1	%	90-110	04/23/2004	2211
CCV		M0388	1.00680734		1.00		100.7	%	90-110	04/23/2004	2228
CCB			-0.0032864							04/23/2004	2241
MS	224401-1	M351	0.50516918		0.500	0.00121021	100.8	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.48804880	0.50516918	0.500	0.00121021	97.4	%	75-125	04/23/2004	2253
							3.4	R	20		
CCV		M0388	0.99859205		1.00		99.9	%	90-110	04/23/2004	2322
CCB			-0.0030175							04/23/2004	2333
CCV		M0388	0.97960234		1.00		98.0	%	90-110	04/24/2004	0014
CCB			-0.0040305							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.96395170		2.00		98.2	%	90-110	04/23/2004	1346
ICV		M0368	1.02297665		1.00		102.3	%	90-110	04/23/2004	1405
ICV		M0380	1.04630569		1.00		104.6	%	90-110	04/23/2004	1413
CCV		M0388	0.98928409		1.00		98.9	%	90-110	04/23/2004	1448
CCB			-0.0027720							04/23/2004	1501
CCV		M0388	1.00288598		1.00		100.3	%	90-110	04/23/2004	1607
CCB			-0.0028736							04/23/2004	1612
MB		3010	-0.0034224							04/23/2004	1623
LCS		M351	0.50704259		0.500		101.4	%	90-110	04/23/2004	1627
CCB			-0.0040888							04/23/2004	1632
MB		3010	-0.0031650							04/23/2004	1648
MB		3010.	-0.0035333							04/23/2004	1651
LCS		M351	0.50933453		0.500		101.9	%	90-110	04/23/2004	1655
CCV		M0388	0.98574730		1.00		98.6	%	90-110	04/23/2004	1712
CCB			-0.0026809							04/23/2004	1726
MS	224389-3	M351	0.46121443		0.500	-0.0027182	92.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.46327865	0.46121443	0.500	-0.0027182	93.2	%	75-125	04/23/2004	1745
							0.4	R	20		
CCV		M0388	0.99290781		1.00		99.3	%	90-110	04/23/2004	1813
CCB			-0.0031520							04/23/2004	1826
CCV		M0388	0.98693719		1.00		98.7	%	90-110	04/23/2004	1909
CCB			-0.0029981							04/23/2004	1923
MB		3010.	-0.0036752							04/23/2004	1936
LCS		M351	0.50537763		0.500		101.1	%	90-110	04/23/2004	1940
MS	224400-2	M351	0.51389151		0.500	0.00937634	100.9	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.50284323	0.51389151	0.500	0.00937634	98.7	%	75-125	04/23/2004	1959
							2.2	R	20		
CCV		M0388	0.98680357		1.00		98.7	%	90-110	04/23/2004	2013
CCB			-0.0030366							04/23/2004	2026
MB		3010	-0.0030000							04/23/2004	2029
LCS		M351	0.51364084		0.500		102.7	%	90-110	04/23/2004	2033
MB		3010	-0.0031566							04/23/2004	2053
LCS		M351	0.47198918		0.500		94.4	%	90-110	04/23/2004	2059
B			-0.0039188							04/23/2004	2104
CCV		M0388	0.98740944		1.00		98.7	%	90-110	04/23/2004	2122
CCB			-0.0033736							04/23/2004	2136
MD	224404-6		-0.0040030			-0.0033246	0.0006784	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.50371576		0.500	-0.0033246	101.4	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.49029082	0.50371576	0.500	-0.0033246	98.7	%	75-125	04/23/2004	2154
							2.7	R	20		
MB		3010	-0.0035936							04/23/2004	2204
LCS		M351	0.50191397		0.500		100.4	%	90-110	04/23/2004	2211
CCV		M0388	0.99489894		1.00		99.5	%	90-110	04/23/2004	2228
CCB			-0.0033536							04/23/2004	2241
MS	224401-1	M351	0.47382500		0.500	-0.0031309	95.4	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.46430749	0.47382500	0.500	-0.0031309	93.5	%	75-125	04/23/2004	2253
							2.0	R	20		
CCV		M0388	0.98144945		1.00		98.1	%	90-110	04/23/2004	2322
CCB			-0.0028043							04/23/2004	2333
CCV		M0388	0.95823248		1.00		95.8	%	90-110	04/24/2004	0014
CCB			-0.0031291							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98303100		2.00		99.2	%	90-110	04/23/2004	1346
ICV		M0368	1.04831775		1.00		104.8	%	90-110	04/23/2004	1405
ICV		M0380	1.04841172		1.00		104.8	%	90-110	04/23/2004	1413
CCV		M0388	1.00124739		1.00		100.1	%	90-110	04/23/2004	1448
CCB			-0.0066640							04/23/2004	1501
ICV		M368B	0.50508963		0.500		101.0	%	90-110	04/23/2004	1602
CCV		M0388	1.01999796		1.00		102.0	%	90-110	04/23/2004	1607
CCB			-0.0091972							04/23/2004	1612
MB		3010	-0.0109863							04/23/2004	1623
LCS		M351	0.54097443		0.500		108.2	%	89-112	04/23/2004	1627
CCB			-0.0127333							04/23/2004	1632
MB		3010	-0.0086375							04/23/2004	1648
MB		3010.	-0.0027009							04/23/2004	1651
LCS		M351	0.52400917		0.500		104.8	%	89-112	04/23/2004	1655
CCV		M0388	1.01685032		1.00		101.7	%	90-110	04/23/2004	1712
CCB			-0.0114058							04/23/2004	1726
MS	224389-3	M351	0.59542751		0.500	-0.0085264	120.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.58802046	0.59542751	0.500	-0.0085264	119.3	%	75-125	04/23/2004	1745
							1.3	R	20		
CCV		M0388	1.03345700		1.00		103.3	%	90-110	04/23/2004	1813
CCB			-0.0153600							04/23/2004	1826
CCV		M0388	1.03600797		1.00		103.6	%	90-110	04/23/2004	1909
CCB			-0.0151893							04/23/2004	1914
MB		3010.	-0.0108481							04/23/2004	1936
LCS		M351	0.53079076		0.500		106.2	%	89-112	04/23/2004	1940
MS	224400-2	M351	0.97667021		0.500	0.44867205	105.6	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.98743003	0.97667021	0.500	0.44867205	107.8	%	75-125	04/23/2004	1959
							1.1	R	20		
CCV		M0388	1.02917647		1.00		102.9	%	90-110	04/23/2004	2013
CCB			-0.0158839							04/23/2004	2026
MB		3010	-0.0146758							04/23/2004	2029
LCS		M351	0.54981808		0.500		110.0	%	89-112	04/23/2004	2033
MB		3010	-0.0139113							04/23/2004	2053
LCS		M351	0.50407729		0.500		100.8	%	89-112	04/23/2004	2059
B			-0.0125713							04/23/2004	2104
CCV		M0388	1.03260404		1.00		103.3	%	90-110	04/23/2004	2122
CCB			-0.0157237							04/23/2004	2136
MD	224404-6		0.00289813			-0.0110401	0.01393823	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.53073736		0.500	-0.0110401	108.4	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.51299468	0.53073736	0.500	-0.0110401	104.8	%	75-125	04/23/2004	2154
							3.4	R	20		
MB		3010	-0.0166585							04/23/2004	2204
LCS		M351	0.53057549		0.500		106.1	%	89-112	04/23/2004	2211
CCV		M0388	1.02913150		1.00		102.9	%	90-110	04/23/2004	2228
CCB			-0.0158181							04/23/2004	2241
MS	224401-1	M351	0.51315847		0.500	-0.0142642	105.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.49500681	0.51315847	0.500	-0.0142642	101.9	%	75-125	04/23/2004	2253
							3.6	R	20		
CCV		M0388	1.04136838		1.00		104.1	%	90-110	04/23/2004	2322
CCB			-0.0155988							04/23/2004	2333
CCV		M0388	1.00907722		1.00		100.9	%	90-110	04/24/2004	0014
CCB			-0.0175836							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97672182		2.00		98.8	%	90-110	04/23/2004	1346
ICV		M0368	1.01997098		1.00		102.0	%	90-110	04/23/2004	1405
ICV		M0380	1.01028028		1.00		101.0	%	90-110	04/23/2004	1413
CCV		M0388	0.98145357		1.00		98.1	%	90-110	04/23/2004	1448
CCB			-0.0025546							04/23/2004	1501
ICV		M368B	0.51259985		0.500		102.5	%	90-110	04/23/2004	1602
CCV		M0388	0.98978397		1.00		99.0	%	90-110	04/23/2004	1607
CCB			-0.0013818							04/23/2004	1612
MB		3010	-0.0040654							04/23/2004	1623
LCS		M351	0.50683059		0.500		101.4	%	87-112	04/23/2004	1627
CCB			0.00007750							04/23/2004	1632
MB		3010	-0.0011532							04/23/2004	1648
MB		3010.	-0.0033448							04/23/2004	1651
LCS		M351	0.51146688		0.500		102.3	%	87-112	04/23/2004	1655
CCV		M0388	0.96870314		1.00		96.9	%	90-110	04/23/2004	1712
CCB			-0.0024509							04/23/2004	1726
MS	224389-3	M351	0.46485344		0.500	0.00080297	92.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.46933962	0.46485344	0.500	0.00080297	93.7	%	75-125	04/23/2004	1745
							1.0	R	20		
CCV		M0388	0.98176888		1.00		98.2	%	90-110	04/23/2004	1813
CCB			-0.0051723							04/23/2004	1826
CCV		M0388	0.97281806		1.00		97.3	%	90-110	04/23/2004	1909
CCB			-0.0037125							04/23/2004	1923
MB		3010.	-0.0029025							04/23/2004	1936
LCS		M351	0.50465790		0.500		100.9	%	87-112	04/23/2004	1940
MS	224400-2	M351	1.22916182		0.500	0.74188436	97.5	%	75-125	04/23/2004	1953
MSD	224400-2	M351	1.21461209	1.22916182	0.500	0.74188436	94.5	%	75-125	04/23/2004	1959
							1.2	R	20		
CCV		M0388	0.98905076		1.00		98.9	%	90-110	04/23/2004	2013
CCB			-0.0044042							04/23/2004	2026
MB		3010	-0.0037384							04/23/2004	2029
LCS		M351	0.51220144		0.500		102.4	%	87-112	04/23/2004	2033
MB		3010	-0.0029060							04/23/2004	2053
LCS		M351	0.47321410		0.500		94.6	%	87-112	04/23/2004	2059
B			-0.0023641							04/23/2004	2104
CCV		M0388	0.97793047		1.00		97.8	%	90-110	04/23/2004	2122
CCB			-0.0041937							04/23/2004	2136
MD	224404-6		-0.0049818			-0.0052951	0.0003133	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.50155006		0.500	-0.0052951	101.4	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.48929150	0.50155006	0.500	-0.0052951	98.9	%	75-125	04/23/2004	2154
							2.5	R	20		
MB		3010	-0.0050126							04/23/2004	2204
LCS		M351	0.50146794		0.500		100.3	%	87-112	04/23/2004	2211
CCV		M0388	0.99885017		1.00		99.9	%	90-110	04/23/2004	2228
CCB			-0.0055717							04/23/2004	2241
MS	224401-1	M351	0.48663437		0.500	-0.0019804	97.7	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.47692965	0.48663437	0.500	-0.0019804	95.8	%	75-125	04/23/2004	2253
							2.0	R	20		
CCV		M0388	0.96695687		1.00		96.7	%	90-110	04/23/2004	2322
CCB			-0.0042182							04/23/2004	2333
CCV		M0388	0.94204540		1.00		94.2	%	90-110	04/24/2004	0014
CCB			-0.0052840							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99572391		2.00		99.8	%	90-110	04/23/2004	1346
ICV		M0368	1.01583950		1.00		101.6	%	90-110	04/23/2004	1405
ICV		M0380	0.98706666		1.00		98.7	%	90-110	04/23/2004	1413
CCV		M0388	0.99084662		1.00		99.1	%	90-110	04/23/2004	1448
CCB			-0.0035302							04/23/2004	1501
CCV		M0388	1.00233586		1.00		100.2	%	90-110	04/23/2004	1607
CCB			-0.0030705							04/23/2004	1612
MB		3010	-0.0034780							04/23/2004	1623
LCS		M351	0.51597607		0.500		103.2	%	88-110	04/23/2004	1627
CCB			-0.0027374							04/23/2004	1632
MB		3010	-0.0034413							04/23/2004	1648
MB		3010.	-0.0029789							04/23/2004	1651
LCS		M351	0.50618408		0.500		101.2	%	88-110	04/23/2004	1655
CCV		M0388	0.99847077		1.00		99.8	%	90-110	04/23/2004	1712
CCB			-0.0029139							04/23/2004	1726
MS	224389-3	M351	0.95137164		0.500	0.46784324	96.7	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.96123100	0.95137164	0.500	0.46784324	98.7	%	75-125	04/23/2004	1745
							1.0	R	20		
CCV		M0388	1.00189215		1.00		100.2	%	90-110	04/23/2004	1813
CCB			-0.0042948							04/23/2004	1826
CCV		M0388	0.99634455		1.00		99.6	%	90-110	04/23/2004	1909
CCB			-0.0043501							04/23/2004	1923
MB		3010.	-0.0042721							04/23/2004	1936
LCS		M351	0.51007084		0.500		102.0	%	88-110	04/23/2004	1940
MS	224400-2	M351	0.57529886		0.500	0.06560700	101.9	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.56922794	0.57529886	0.500	0.06560700	100.7	%	75-125	04/23/2004	1959
							1.1	R	20		
CCV		M0388	0.99541926		1.00		99.5	%	90-110	04/23/2004	2013
CCB			-0.0045847							04/23/2004	2026
MB		3010	-0.0043122							04/23/2004	2029
LCS		M351	0.52039797		0.500		104.1	%	88-110	04/23/2004	2033
MB		3010	-0.0044436							04/23/2004	2053
LCS		M351	0.47771399		0.500		95.5	%	88-110	04/23/2004	2059
B			-0.0041944							04/23/2004	2104
CCV		M0388	0.99639726		1.00		99.6	%	90-110	04/23/2004	2122
CCB			-0.0048898							04/23/2004	2136
MD	224404-6		-0.0046852			-0.0040833	0.0006019	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.50627544		0.500	-0.0040833	102.1	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.49295030	0.50627544	0.500	-0.0040833	99.4	%	75-125	04/23/2004	2154
							2.7	R	20		
MB		3010	-0.0049100							04/23/2004	2204
LCS		M351	0.50682922		0.500		101.4	%	88-110	04/23/2004	2211
CCV		M0388	1.00073065		1.00		100.1	%	90-110	04/23/2004	2228
CCB			-0.0051344							04/23/2004	2241
MS	224401-1	M351	0.51630203		0.500	0.01810964	99.6	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.49661450	0.51630203	0.500	0.01810964	95.7	%	75-125	04/23/2004	2253
							3.9	R	20		
CCV		M0388	0.99306828		1.00		99.3	%	90-110	04/23/2004	2322
CCB			-0.0036568							04/23/2004	2333
CCV		M0388	0.98468060		1.00		98.5	%	90-110	04/24/2004	0014
CCB			-0.0044010							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.96345087		2.00		98.2	%	90-110	04/23/2004	1346
ICV		M0368	1.02391679		1.00		102.4	%	90-110	04/23/2004	1405
ICV		M0380	1.02619239		1.00		102.6	%	90-110	04/23/2004	1413
CCV		M0388	0.99137827		1.00		99.1	%	90-110	04/23/2004	1448
CCB			-0.0030260							04/23/2004	1501
ICV		M368B	0.52304420		0.500		104.6	%	90-110	04/23/2004	1602
CCV		M0388	0.99862470		1.00		99.9	%	90-110	04/23/2004	1607
CCB			-0.0026951							04/23/2004	1612
MB		3010	-0.0035508							04/23/2004	1623
LCS		M351	0.51541243		0.500		103.1	%	90-112	04/23/2004	1627
CCB			-0.0026736							04/23/2004	1632
MB		3010	-0.0033196							04/23/2004	1648
MB		3010.	-0.0041134							04/23/2004	1651
LCS		M351	0.50938134		0.500		101.9	%	90-112	04/23/2004	1655
CCV		M0388	0.99948626		1.00		99.9	%	90-110	04/23/2004	1712
CCB			-0.0012786							04/23/2004	1726
MS	224389-3	M351	0.49409364		0.500	0.01032451	96.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.49228219	0.49409364	0.500	0.01032451	96.4	%	75-125	04/23/2004	1745
							0.4	R	20		
CCV		M0388	0.99686685		1.00		99.7	%	90-110	04/23/2004	1813
CCB			-0.0044148							04/23/2004	1826
CCV		M0388	0.98921064		1.00		98.9	%	90-110	04/23/2004	1909
CCB			-0.0045945							04/23/2004	1923
MB		3010.	-0.0046978							04/23/2004	1936
LCS		M351	0.50621002		0.500		101.2	%	90-112	04/23/2004	1940
MS	224400-2	M351	0.73022106		0.500	0.22638022	100.8	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.72166064	0.73022106	0.500	0.22638022	99.1	%	75-125	04/23/2004	1959
							1.2	R	20		
CCV		M0388	0.99205672		1.00		99.2	%	90-110	04/23/2004	2013
CCB			-0.0046738							04/23/2004	2026
MB		3010	-0.0043499							04/23/2004	2029
LCS		M351	0.51717678		0.500		103.4	%	90-112	04/23/2004	2033
MB		3010	-0.0043930							04/23/2004	2053
LCS		M351	0.47692939		0.500		95.4	%	90-112	04/23/2004	2059
B			-0.0049839							04/23/2004	2104
CCV		M0388	0.99003012		1.00		99.0	%	90-110	04/23/2004	2122
CCB			-0.0051853							04/23/2004	2136
MD	224404-6		-0.0063685			-0.0054508	0.0009177	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.50305224		0.500	-0.0054508	101.7	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.49063753	0.50305224	0.500	-0.0054508	99.2	%	75-125	04/23/2004	2154
							2.5	R	20		
MB		3010	-0.0054518							04/23/2004	2204
LCS		M351	0.50399084		0.500		100.8	%	90-112	04/23/2004	2211
CCV		M0388	0.99881523		1.00		99.9	%	90-110	04/23/2004	2228
CCB			-0.0056127							04/23/2004	2241
MS	224401-1	M351	0.47876039		0.500	0.00313790	95.1	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.45508067	0.47876039	0.500	0.00313790	90.4	%	75-125	04/23/2004	2253
							5.1	R	20		
CCV		M0388	0.98255848		1.00		98.3	%	90-110	04/23/2004	2322
CCB			-0.0052677							04/23/2004	2333
CCV		M0388	0.95768903		1.00		95.8	%	90-110	04/24/2004	0014
CCB			-0.0053522							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98046543		2.00		99.0	%	90-110	04/23/2004	1346
ICV		M0368	1.01695048		1.00		101.7	%	90-110	04/23/2004	1405
ICV		M0380	1.01403478		1.00		101.4	%	90-110	04/23/2004	1413
CCV		M0388	0.98598425		1.00		98.6	%	90-110	04/23/2004	1448
CCB			-0.0087772							04/23/2004	1501
ICV		M368B	0.53570237		0.500		107.1	%	90-110	04/23/2004	1602
CCV		M0388	1.00000724		1.00		100.0	%	90-110	04/23/2004	1607
CCB			-0.0007246							04/23/2004	1612
MB		3010	0.00747017							04/23/2004	1623
LCS		M351	0.50533536		0.500		101.1	%	82-111	04/23/2004	1627
CCB			-0.0002390							04/23/2004	1632
MB		3010	-0.0009274							04/23/2004	1648
MB		3010.	-0.0035408							04/23/2004	1651
LCS		M351	0.50177534		0.500		100.4	%	82-111	04/23/2004	1655
CCV		M0388	0.98493256		1.00		98.5	%	90-110	04/23/2004	1712
CCB			-0.0050722							04/23/2004	1726
MS	224389-3	M351	0.49528336		0.500	0.00290435	98.5	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.47993386	0.49528336	0.500	0.00290435	95.4	%	75-125	04/23/2004	1745
							3.1	R	20		
CCV		M0388	0.98130549		1.00		98.1	%	90-110	04/23/2004	1813
CCB			0.00316118							04/23/2004	1826
CCV		M0388	0.97189030		1.00		97.2	%	90-110	04/23/2004	1909
CCB			-0.0028567							04/23/2004	1923
MB		3010.	-0.0020552							04/23/2004	1936
LCS		M351	0.49090246		0.500		98.2	%	82-111	04/23/2004	1940
MS	224400-2	M351	0.50191244		0.500	0.00896192	98.6	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.49715590	0.50191244	0.500	0.00896192	97.6	%	75-125	04/23/2004	1959
							1.0	R	20		
CCV		M0388	0.98342659		1.00		98.3	%	90-110	04/23/2004	2013
CCB			0.00393448							04/23/2004	2026
MB		3010	-0.0037590							04/23/2004	2029
LCS		M351	0.49760099		0.500		99.5	%	82-111	04/23/2004	2033
MB		3010	-0.0016541							04/23/2004	2053
LCS		M351	0.46020079		0.500		92.0	%	82-111	04/23/2004	2059
B			0.00129878							04/23/2004	2104
CCV		M0388	0.97934489		1.00		97.9	%	90-110	04/23/2004	2122
CCB			-0.0082864							04/23/2004	2136
MD	224404-6		0.00780272			0.00504613	0.00275659	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.48330933		0.500	0.00504613	95.7	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.46906609	0.48330933	0.500	0.00504613	92.8	%	75-125	04/23/2004	2154
							3.0	R	20		
MB		3010	-0.0072796							04/23/2004	2204
LCS		M351	0.47827375		0.500		95.7	%	82-111	04/23/2004	2211
CCV		M0388	0.97986006		1.00		98.0	%	90-110	04/23/2004	2228
CCB			0.00365411							04/23/2004	2241
MS	224401-1	M351	0.50347953		0.500	0.00596534	99.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.49826727	0.50347953	0.500	0.00596534	98.5	%	75-125	04/23/2004	2253
							1.0	R	20		
CCV		M0388	0.97917497		1.00		97.9	%	90-110	04/23/2004	2322
CCB			-0.0057817							04/23/2004	2333
CCV		M0388	0.94938839		1.00		94.9	%	90-110	04/24/2004	0014
CCB			0.00062084							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	0.97993797		1.0		98.0	%	90-110	04/23/2004	1346
ICV		M0369	1.00570350		1.00		100.6	%	90-110	04/23/2004	1410
CCV		M0388	0.48936923		0.50		97.9	%	90-110	04/23/2004	1448
CCB			-0.0015911							04/23/2004	1501
CCV		M0388	0.49697947		0.50		99.4	%	90-110	04/23/2004	1607
CCB			-0.0017743							04/23/2004	1612
MB		3010	-0.0016534							04/23/2004	1623
LCS		M351	0.25571892		0.25		102.3	%	87-110	04/23/2004	1627
CCB			-0.0016246							04/23/2004	1632
MB		3010	-0.0012061							04/23/2004	1648
MB		3010.	-0.0022770							04/23/2004	1651
LCS		M351	0.24778658		0.25		99.1	%	87-110	04/23/2004	1655
CCV		M0388	0.49204517		0.50		98.4	%	90-110	04/23/2004	1712
CCB			-0.0016774							04/23/2004	1726
MS	224389-3	M351	0.24065985		0.25	-0.0037856	97.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.25452939	0.24065985	0.25	-0.0037856	103.3	%	75-125	04/23/2004	1745
							5.6	R	20		
CCV		M0388	0.49858147		0.50		99.7	%	90-110	04/23/2004	1813
CCB			-0.0013777							04/23/2004	1826
CCV		M0388	0.50247935		0.50		100.5	%	90-110	04/23/2004	1909
CCB			-0.0012528							04/23/2004	1923
MB		3010.	-0.0015463							04/23/2004	1936
LCS		M351	0.25259951		0.25		101.0	%	87-110	04/23/2004	1940
CCV		M0388	0.50259094		0.50		100.5	%	90-110	04/23/2004	2013
CCB			-0.0012538							04/23/2004	2026
MB		3010	-0.0014551							04/23/2004	2029
LCS		M351	0.26135393		0.25		104.5	%	87-110	04/23/2004	2033
MB		3010	-0.0012825							04/23/2004	2053
LCS		M351	0.20894013		0.25		83.6	%	80-120	04/23/2004	2059
B			-0.0014745							04/23/2004	2104
CCV		M0388	0.50329586		0.50		100.7	%	90-110	04/23/2004	2122
CCB			-0.0018034							04/23/2004	2136
MD	224404-6		-0.0016827			-0.0013770	0.0003057	A	0.0050000	04/23/2004	2142
MS	224404-6	M351	0.23048351		0.25	-0.0013770	92.7	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.16271183	0.23048351	0.25	-0.0013770	65.6	%	75-125	04/23/2004	2154
							34.5	R	20		
MB		3010	-0.0011687							04/23/2004	2204
LCS		M351	0.25400043		0.25		101.6	%	87-110	04/23/2004	2211
CCV		M0388	0.50386756		0.50		100.8	%	90-110	04/23/2004	2228
CCB			-0.0018193							04/23/2004	2241
CCV		M0388	0.49763503		0.50		99.5	%	90-110	04/23/2004	2322
CCB			-0.0010938							04/23/2004	2333
CCV		M0388	0.49114937		0.50		98.2	%	90-110	04/24/2004	0014
CCB			-0.0017729							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.10496335		2.00		105.2	%	90-110	04/23/2004	1349
RS		M0371	2.05803025		2.00		102.9	%	90-110	04/23/2004	1359
ICV		M0374	1.00534008		1.00		100.5	%	90-110	04/23/2004	1422
CCV		M0388	2.07370401		2.00		103.7	%	90-110	04/23/2004	1448
CCB			-0.0047198							04/23/2004	1501
CCV		M0388	2.05825955		2.00		102.9	%	90-110	04/23/2004	1607
CCB			0.01743591							04/23/2004	1612
MB		3010	-0.0124011							04/23/2004	1623
LCS		M351	1.03351289		1.00		103.4	%	83-118	04/23/2004	1627
CCB			-0.0185738							04/23/2004	1632
MB		3010	-0.0153073							04/23/2004	1648
MB		3010.	-0.0151764							04/23/2004	1651
LCS		M351	1.03906767		1.00		103.9	%	83-118	04/23/2004	1655
CCV		M0388	2.01508569		2.00		100.8	%	90-110	04/23/2004	1712
CCB			-0.0116118							04/23/2004	1726
MS	224389-3	M351	0.99590767		1.00	-0.0369076	103.3	%	75-125	04/23/2004	1740
MSD	224389-3	M351	1.01395660	0.99590767	1.00	-0.0369076	105.1	%	75-125	04/23/2004	1745
							1.8	R	20		
CCV		M0388	2.03318442		2.00		101.7	%	90-110	04/23/2004	1813
CCB			-0.0110304							04/23/2004	1826
CCV		M0388	2.00539274		2.00		100.3	%	90-110	04/23/2004	1909
CCB			-0.0120060							04/23/2004	1923
MB		3010.	-0.0161856							04/23/2004	1936
LCS		M351	1.02953109		1.00		103.0	%	83-118	04/23/2004	1940
MS	224400-2	M351	1.05128135		1.00	-0.0184096	107.0	%	75-125	04/23/2004	1953
MSD	224400-2	M351	1.04633632	1.05128135	1.00	-0.0184096	106.5	%	75-125	04/23/2004	1959
							0.5	R	20		
CCV		M0388	2.05328924		2.00		102.7	%	90-110	04/23/2004	2013
CCB			-0.0094764							04/23/2004	2026
MB		3010	-0.0118164							04/23/2004	2029
LCS		M351	1.04182693		1.00		104.2	%	83-118	04/23/2004	2033
MB		3010	-0.0153187							04/23/2004	2053
LCS		M351	0.96516855		1.00		96.5	%	83-118	04/23/2004	2059
B			-0.0199158							04/23/2004	2104
CCV		M0388	2.02877114		2.00		101.4	%	90-110	04/23/2004	2122
CCB			-0.0105243							04/23/2004	2136
MD	224404-6		-0.0128982			-0.0151623	0.0022641	A	0.0200000	04/23/2004	2142
MS	224404-6	M351	1.02677486		1.00	-0.0151623	104.2	%	75-125	04/23/2004	2149
MSD	224404-6	M351	1.00908365	1.02677486	1.00	-0.0151623	102.4	%	75-125	04/23/2004	2154
							1.7	R	20		
MB		3010	-0.0067999							04/23/2004	2204
LCS		M351	1.02010687		1.00		102.0	%	83-118	04/23/2004	2211
CCV		M0388	2.07336790		2.00		103.7	%	90-110	04/23/2004	2228
CCB			-0.0073217							04/23/2004	2241
MS	224401-1	M351	1.01030912		1.00	-0.0348454	104.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	1.01227105	1.01030912	1.00	-0.0348454	104.7	%	75-125	04/23/2004	2253
							0.2	R	20		
CCV		M0388	2.00528245		2.00		100.3	%	90-110	04/23/2004	2322
CCB			-0.0020157							04/23/2004	2333
CCV		M0388	1.96534010		2.00		98.3	%	90-110	04/24/2004	0014
CCB			-0.0107983							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.96674102		2.00		98.3	%	90-110	04/23/2004	1346
ICV		M0368	1.00074375		1.00		100.1	%	90-110	04/23/2004	1405
ICV		M0380	1.00242214		1.00		100.2	%	90-110	04/23/2004	1413
CCV		M0388	0.96808118		1.00		96.8	%	90-110	04/23/2004	1448
CCB			-0.0025838							04/23/2004	1501
ICV		M368B	0.50519605		0.500		101.0	%	90-110	04/23/2004	1602
CCV		M0388	0.98486083		1.00		98.5	%	90-110	04/23/2004	1607
CCB			-0.0023765							04/23/2004	1612
MB		3010	-0.0027519							04/23/2004	1623
LCS		M351	0.50535247		0.500		101.1	%	89-110	04/23/2004	1627
CCB			-0.0028805							04/23/2004	1632
MB		3010	-0.0027095							04/23/2004	1648
MB		3010.	-0.0031902							04/23/2004	1651
LCS		M351	0.49453816		0.500		98.9	%	89-110	04/23/2004	1655
CCV		M0388	0.97952759		1.00		98.0	%	90-110	04/23/2004	1712
CCB			-0.0027751							04/23/2004	1726
MS	224389-3	M351	0.50285091		0.500	-0.0009754	100.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.50079921	0.50285091	0.500	-0.0009754	100.4	%	75-125	04/23/2004	1745
							0.4	R	20		
CCV		M0388	0.98742342		1.00		98.7	%	90-110	04/23/2004	1813
CCB			-0.0036203							04/23/2004	1826
CCV		M0388	0.98060588		1.00		98.1	%	90-110	04/23/2004	1909
CCB			-0.0033867							04/23/2004	1923
MB		3010.	-0.0033195							04/23/2004	1936
LCS		M351	0.49886929		0.500		99.8	%	89-110	04/23/2004	1940
MS	224400-2	M351	0.51042695		0.500	-0.0012993	102.3	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.50463269	0.51042695	0.500	-0.0012993	101.2	%	75-125	04/23/2004	1959
							1.1	R	20		
CCV		M0388	0.97757145		1.00		97.8	%	90-110	04/23/2004	2013
CCB			-0.0028929							04/23/2004	2026
MB		3010	-0.0030751							04/23/2004	2029
LCS		M351	0.50915280		0.500		101.8	%	89-110	04/23/2004	2033
MB		3010	-0.0031002							04/23/2004	2053
LCS		M351	0.46872845		0.500		93.7	%	89-110	04/23/2004	2059
B			-0.0027071							04/23/2004	2104
CCV		M0388	0.97599766		1.00		97.6	%	90-110	04/23/2004	2122
CCB			-0.0030627							04/23/2004	2136
MD	224404-6		-0.0031431			-0.0032777	0.0001346	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.49477600		0.500	-0.0032777	99.6	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.48152342	0.49477600	0.500	-0.0032777	97.0	%	75-125	04/23/2004	2154
							2.7	R	20		
MB		3010	-0.0035140							04/23/2004	2204
LCS		M351	0.49484052		0.500		99.0	%	89-110	04/23/2004	2211
CCV		M0388	0.97521728		1.00		97.5	%	90-110	04/23/2004	2228
CCB			-0.0026196							04/23/2004	2241
MS	224401-1	M351	0.49723482		0.500	-0.0017351	99.8	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.48085077	0.49723482	0.500	-0.0017351	96.5	%	75-125	04/23/2004	2253
							3.4	R	20		
CCV		M0388	0.97519586		1.00		97.5	%	90-110	04/23/2004	2322
CCB			-0.0026386							04/23/2004	2333
CCV		M0388	0.95831279		1.00		95.8	%	90-110	04/24/2004	0014
CCB			-0.0032318							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224400 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98178005		2.00		99.1	%	90-110	04/23/2004	1346
ICV		M0368	1.02451487		1.00		102.5	%	90-110	04/23/2004	1405
ICV		M0380	1.01432327		1.00		101.4	%	90-110	04/23/2004	1413
CCV		M0388	1.00962828		1.00		101.0	%	90-110	04/23/2004	1448
CCB			-0.0049707							04/23/2004	1501
ICV		M368B	0.73119425		0.500		146.2	%	90-110	04/23/2004	1602
CCV		M0388	0.99170201		1.00		99.2	%	90-110	04/23/2004	1607
CCB			0.00174947							04/23/2004	1612
MB		3010	-0.0018065							04/23/2004	1623
LCS		M351	0.50504361		0.500		101.0	%	86-110	04/23/2004	1627
CCB			0.00335304							04/23/2004	1632
MB		3010	-0.0037322							04/23/2004	1648
MB		3010.	-0.0017033							04/23/2004	1651
LCS		M351	0.50010374		0.500		100.0	%	86-110	04/23/2004	1655
CCV		M0388	0.99927414		1.00		99.9	%	90-110	04/23/2004	1712
CCB			0.00139454							04/23/2004	1726
MS	224389-3	M351	0.54974978		0.500	0.04959331	100.0	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.54218340	0.54974978	0.500	0.04959331	98.5	%	75-125	04/23/2004	1745
							1.4	R	20		
CCV		M0388	0.98098101		1.00		98.1	%	90-110	04/23/2004	1813
CCB			-0.0043997							04/23/2004	1826
CCV		M0388	0.97746014		1.00		97.7	%	90-110	04/23/2004	1909
CCB			-0.0041873							04/23/2004	1923
MB		3010.	-0.0034145							04/23/2004	1936
LCS		M351	0.49008209		0.500		98.0	%	86-110	04/23/2004	1940
MS	224400-2	M351	5.98953864		0.500	5.51286071	95.3	%	75-125	04/23/2004	1953
MSD	224400-2	M351	5.96921397	5.98953864	0.500	5.51286071	91.3	%	75-125	04/23/2004	1959
							0.3	R	20		
CCV		M0388	0.98378485		1.00		98.4	%	90-110	04/23/2004	2013
CCB			-0.0053698							04/23/2004	2026
MB		3010	-0.0005258							04/23/2004	2029
LCS		M351	0.50297011		0.500		100.6	%	86-110	04/23/2004	2033
MB		3010	-0.0039929							04/23/2004	2053
LCS		M351	0.46309926		0.500		92.6	%	86-110	04/23/2004	2059
B			-0.0033842							04/23/2004	2104
CCV		M0388	0.97526778		1.00		97.5	%	90-110	04/23/2004	2122
CCB			-0.0066922							04/23/2004	2136
MD	224404-6		-0.0064029			-0.0048945	0.0015084	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.48750692		0.500	-0.0048945	98.5	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.47531585	0.48750692	0.500	-0.0048945	96.0	%	75-125	04/23/2004	2154
							2.5	R	20		
MB		3010	-0.0067434							04/23/2004	2204
LCS		M351	0.49012297		0.500		98.0	%	86-110	04/23/2004	2211
CCV		M0388	0.98526261		1.00		98.5	%	90-110	04/23/2004	2228
CCB			-0.0084579							04/23/2004	2241
MS	224401-1	M351	0.50471887		0.500	0.00818561	99.3	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.48722002	0.50471887	0.500	0.00818561	95.8	%	75-125	04/23/2004	2253
							3.5	R	20		
CCV		M0388	1.00420055		1.00		100.4	%	90-110	04/23/2004	2322
CCB			0.00116697							04/23/2004	2333
CCV		M0388	0.93036443		1.00		93.0	%	90-110	04/24/2004	0014
CCB			-0.0038571							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

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Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D230290

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 3, 2004

STL LOT NUMBER: **I4D230290**

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on April 23, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D230290

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224400-1 04/21/04 15:40 001				
Cadmium	104	1.0	ug/L	SW846 6020
Antimony	1.6	1.0	ug/L	SW846 6020
224400-2 04/21/04 16:10 002				
Cadmium	72.4	1.0	ug/L	SW846 6020
Antimony	1.1	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D230290

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D230290

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GETGG	001	224400-1	04/21/04	15:40
GETG9	002	224400-2	04/21/04	16:10

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D230290

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4118143	4118048
	WATER	SW846 6010B		4118144	4118049
002	WATER	SW846 6020		4118143	4118048
	WATER	SW846 6010B		4118144	4118049

STL CORPUS CHRISTI

Client Sample ID: 224400-1

TOTAL Metals

Lot-Sample #...: I4D230290-001 **Matrix.....:** WATER
Date Sampled...: 04/21/04 15:40 **Date Received..:** 04/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4118143						
Cadmium	**104**	**1.0**	**ug/L**	**SW846 6020**	**04/26-04/27/04**	**GETGG1AA**
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4118048	
Antimony	**1.6**	**1.0**	**ug/L**	**SW846 6020**	**04/26-04/27/04**	**GETGG1AC**
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4118048	
Thallium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GETGG1AD
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4118048	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GETGG1AE
		Dilution Factor: 1		Analysis Time..: 12:57	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224400-2

TOTAL Metals

Lot-Sample #...: I4D230290-002 **Matrix.....:** WATER
Date Sampled...: 04/21/04 16:10 **Date Received..:** 04/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4118143						
Cadmium	**72.4**	**1.0**	**ug/L**	**SW846 6020**	**04/26-04/27/04**	**GETG91AA**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4118048	
Antimony	**1.1**	**1.0**	**ug/L**	**SW846 6020**	**04/26-04/27/04**	**GETG91AC**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4118048	
Thallium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GETG91AD
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4118048	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/28/04	GETG91AE
		Dilution Factor: 1		Analysis Time..: 13:02	MS Run #.....: 4118049	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D270000-143 **Prep Batch #...:** 4118143						
Antimony	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AC
		Dilution Factor: 1				
		Analysis Time..: 17:02				
Cadmium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AA
		Dilution Factor: 1				
		Analysis Time..: 17:02				
Thallium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AD
		Dilution Factor: 1				
		Analysis Time..: 17:02				
MB Lot-Sample #: I4D270000-144 **Prep Batch #...:** 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GE0RW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:41				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D270000-143 **Prep Batch #...:** 4118143					
Cadmium	99	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AE
		Dilution Factor: 1	Analysis Time..: 17:19		
Antimony	97	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AF
		Dilution Factor: 1	Analysis Time..: 17:19		
Thallium	107	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AG
		Dilution Factor: 1	Analysis Time..: 17:19		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144					
Bismuth	102	(80 - 120)	SW846 6010B	04/26-04/28/04	GE0RW1AC
		Dilution Factor: 1	Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D270000-143 **Prep Batch #...:** 4118143							
Cadmium	50.0	49.3	ug/L	99	SW846 6020	04/26-04/27/04	GE0RT1AE
			Dilution Factor: 1		Analysis Time..: 17:19		
Antimony	50.0	48.4	ug/L	97	SW846 6020	04/26-04/27/04	GE0RT1AF
			Dilution Factor: 1		Analysis Time..: 17:19		
Thallium	50.0	53.3	ug/L	107	SW846 6020	04/26-04/27/04	GE0RT1AG
			Dilution Factor: 1		Analysis Time..: 17:19		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	04/26-04/28/04	GE0RW1AC
			Dilution Factor: 1		Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D220229-001 **Prep Batch #...:** 4118143							
Antimony	100	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AH
	101	(80 - 120)	0.83	(0-20)	SW846 6020	04/26-04/27/04	GEM821AJ
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					
Cadmium	114	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AF
	111	(80 - 120)	0.55	(0-20)	SW846 6020	04/26-04/27/04	GEM821AG
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					
Thallium	110	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AK
	111	(80 - 120)	1.2	(0-20)	SW846 6020	04/26-04/27/04	GEM821AL
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D220229-001 **Prep Batch #...:** 4118143									
Antimony									
	2.1	50.0	52.1	ug/L	100		SW846 6020	04/26-04/27/04	GEM821AH
	2.1	50.0	52.6	ug/L	101	0.83	SW846 6020	04/26-04/27/04	GEM821AJ
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						
Cadmium									
	228	50.0	285	ug/L	114		SW846 6020	04/26-04/27/04	GEM821AF
	228	50.0	283	ug/L	111	0.55	SW846 6020	04/26-04/27/04	GEM821AG
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						
Thallium									
	2.2	50.0	57.0	ug/L	110		SW846 6020	04/26-04/27/04	GEM821AK
	2.2	50.0	57.7	ug/L	111	1.2	SW846 6020	04/26-04/27/04	GEM821AL
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144							
Bismuth	100	(75 - 125)			SW846 6010B	04/26-04/28/04	GEG2G1AM
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/26-04/28/04	GEG2G1AN

Dilution Factor: 1
Analysis Time..: 12:27
MS Run #.....: 4118049

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D230290 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144									
Bismuth									
	ND	0.500	0.502	mg/L	100		SW846 6010B	04/26-04/28/04	GEG2G1AM
	ND	0.500	0.494	mg/L	99	1.6	SW846 6010B	04/26-04/28/04	GEG2G1AN

Dilution Factor: 1
Analysis Time..: 12:27
MS Run #.....: 4118049

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

17

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4D230290

RECEIVED BY: BJ

COC NUMBER: _____

DATE/TIME RECEIVED: 4/23/04 0800

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4/23/04 0845

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: LOG-IN REVIEWED:

Number of Shipping Containers Received with Chain of Custody: 1

CC

BJ

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: BJ

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: BJ

IR THERMOMETER #: P-5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

3°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____

OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** BJ

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☐ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: BJ

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: Mark Sabol Date: 5/3/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL** — STL Austin

No. 23720

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS:
PHONE: 361 289-2673	PHONE: Same
FAX: 361 289-2471	FAX: PO NO:

3rd 4/23/04 BJ

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST 6020 (Sb, Cd, Tl)	6010 (Bi)	REMARKS/PRECAUTIONS
	224400-1	4/21/04	15:40	Water	P500	HNO_3	1	X	X	Attn:
	224400-2	↓	16:10	↓	↓	↓	1	X	X	Neal Salcher
										ASARCO Pricing

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7-day TAT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/22/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 10:53	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Bill Park	4/23/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1329	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/05/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/05/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Encycle Corpus Christi, TX

Laboratory: STL

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

224400

10.0° Just Sampled

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cyanide (1 pt poly w/NaOH)	Total As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Mg, Hg, Ni, Se, Ag, Tl, Sn, Zn (2 1pt poly w/HNO3)					Remarks	Total
BiNG6	L	4/21/04 3:40		1	2					Need low detection limits	3
BiNG	L	4/21/04 4:10		1	2						3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 6

					Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS	Date 4/21/04	Time 4:45		
Received by: [signature]	Organization: STL-CC	Date 4/21/04	Time 1645		Yes No N/A
Relinquished by: _____	Organization: _____	Date / /	Time _____		Seal Intact?
Received by: _____	Organization: _____	Date / /	Time _____		Yes No N/A

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus. Invoice to Rich Marcus for RCRA closure. Need low detection limits. Normal turnaround time.

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277795 **Report Date:** 09/14/04
Project ID: Encycle RCRA Closure
Sample Name: BIN G
Sample Matrix: water
Date Received: 09/09/2004 **Time:** 16:10
Date Sampled: 09/09/2004 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/10/04	3015	---	---	---	---	---
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	2	99.78	100.38	96.54
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/13/04	6010 & 200.7	J	0.49	100.55	102.4	99.22
Chromium/ICP	<0.005	mg/L	0.005	<0.005	09/13/04	6010 & 200.7	---	0.61	97.77	103.4	101.6
Lead/ICP	0.0204	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	0.34	100.04	104.44	100.74

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277795 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN G

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277796 **Report Date:** 09/14/04
Project ID: Encycle RCRA Closure
Sample Name: BIN G
Sample Matrix: water
Date Received: 09/09/2004 **Time:** 16:10
Date Sampled: 09/09/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/10/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/13/04	6010 & 200.7	J	0.49	100.55	102.4	99.22
Lead/ICP	**0.017**	mg/L	0.01	<0.01	09/13/04	6010 & 200.7	---	0.34	100.04	104.44	100.74

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277796 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: BIN G

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes: _____

10518

CHAIN-OF-CUSTODY

www.analysysinc.com

ANALYSYS INC.
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2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS / ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KAN BRADNER/RICH MARCUS
Phone 883 1353 Fax 883 7565
Project Name/PO#: ENCYCLE RCRA CLOSURE Sampler J. CLEMENTS

Bill To (if different):
Company Name ENCYCLE RCRA CLOSURE
Address ENCYCLE
City CC State TX Zip
ATTN: RICH MARCUS
Phone Fax

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL ARSENIC, CADMIUM, & LEAD	TOTAL CADMIUM & LEAD	RUSH TAT (Pre-Scheduled)	Standard TAT
BIN G	9-9-04	1200	1	X		277795	X	X						X					X			
BIN G	↓	1600	1	X		277796	X	X						X						X		

Special Instructions (such as special QC requirements, lists, methods, etc...) NEED 3 DAY TURN AROUND.
ANALYZE SECOND (AFTERNOON) SAMPLE FOR CADMIUM & LEAD ONLY

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C) T:2.2°C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
JACOB CLEMENTS	ARCADIS	9-9-04	1610	M. Wall	ASI	9/9/04	1610	NO	
				D. Flynn	ASI	9/10/04	0815		

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277887 **Report Date:** 09/16/04
Project ID: Encycle RCRA Closure
Sample Name: Bin G
Sample Matrix: water
Date Received: 09/10/2004 **Time:** 16:15
Date Sampled: 09/10/2004 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/13/04	3015	---	---	---	---	---
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/15/04	6010 & 200.7	---	0.84	98.28	100.22	85.9
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/15/04	6010 & 200.7	J	0.46	97.92	103.4	85.28
Chromium/ICP	<0.005	mg/L	0.005	<0.005	09/15/04	6010 & 200.7	---	0.18	96.8	101.32	87.42
Lead/ICP	0.0124	mg/L	0.01	<0.01	09/15/04	6010 & 200.7	---	0.47	97.02	103.8	87.38

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 277887 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin G

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277889 **Report Date:** 09/16/04
Project ID: Encycle RCRA Closure
Sample Name: Bin G
Sample Matrix: water
Date Received: 09/10/2004 **Time:** 16:15
Date Sampled: 09/10/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/13/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/15/04	6010 & 200.7	J	0.46	97.92	103.4	85.28
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/15/04	6010 & 200.7	J	0.47	97.02	103.8	87.38

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Exceptions Report:

Report #/Lab ID#: 277889 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin G

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.

Notes:

SEVERN TRENT STL ANALYSIS

No. 25963 10526

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RAMPAC / ENCYCLE	PROJECT NAME/NUMBER: ENCYCLE RCRA CLOSURE
SEND REPORT TO: VAN BRUNDT / RAMPAC	**BILLING INFORMATION**
ADDRESS: 711 N. CARANCAHUA CC TX 78475	BILL TO:
	ADDRESS:
PHONE: 883 1353	PHONE:
FAX: 883 7565	FAX: PO NO:

NUMBER OF CONTAINERS

ANALYSIS/METHOD REQUEST: TOTAL Hg, Cd, Cr, Pb | TCLP Cd, Pb

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS/PRECAUTIONS
277887	BIN 6	1200	9-10-04	L	1 pt poly	HNO_3	
277889	BIN 6	1600	↓	↓	↓	↓	NEED 3 day TURNAROUND

SAMPLER: J. CLEMENTS SHIPMENT METHOD: IN PERSON AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	9-10-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: J. CLEMENTS/ARUNDEL	TIME 1615	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	9/10/04	SIGNATURE:	9/11/04	SIGNATURE:	
PRINTED NAME/COMPANY: ASI	TIME 1615	PRINTED NAME/COMPANY: G. FLYNN/ASI	TIME 1000	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

T: 2.0°C

STL8222-560 (12/02)

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277613 **Report Date:** 09/07/04
Project ID: Encycle RCRA Closure
Sample Name: BIN GG
Sample Matrix: water
Date Received: 09/01/2004 **Time:** 16:55
Date Sampled: 09/01/2004 **Time:** 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/03/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0099**	mg/L	0.002	<0.002	09/07/04	6010 & 200.7	---	0.97	93.02	98.9	86.9
Lead/ICP	**0.0544**	mg/L	0.01	<0.01	09/07/04	6010 & 200.7	---	0.57	94.67	100.56	85.2

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(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277614 **Report Date:** 09/10/04
Project ID: Encycle RCRA Closure
Sample Name: BIN GG
Sample Matrix: water
Date Received: 09/01/2004 **Time:** 16:55
Date Sampled: 09/01/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0131**	mg/L	0.002	<0.002	09/10/04	6010 & 200.7	---	0.59	102.33	103.3	102.9
Lead/ICP	**0.0508**	mg/L	0.01	<0.01	09/10/04	6010 & 200.7	---	0.28	100.25	103.58	102.7

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CHAIN OF-CUSTODY

WWW.AN[illegible]SYSINC.COM

AnalySys Inc.
3512 Montopolis Drive, Austin, TX 78744
Phone: (512) 385-5886 Fax: (512) 385-7411
2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS/ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BERNHARD / RICH MARCUS
Phone 883-1353 Fax 883-1565

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler: J. CLEMENTS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH, BTEX, MTBE, TCLP Pb, TCLP BTEX, TCLP Cr, TCLP Ag	Comments
BIN 66	9-1-04	1500	1		X		277613	X	ANALYZE
BIN 67	↓	1600	1		X		277614	X	HOLD PENDING NOTIFICATION FROM KEN BERNHARD
								analyze per R. Marcus	

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	9-1-04	1655	J. Encarnacion	ASI	9-1-04	1655
				D. Flynn	ASI	9/2/04	0840

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277625 **Report Date:** 09/10/04
Project ID: Encycle RCRA Closure
Sample Name: BIN GG
Sample Matrix: water
Date Received: 09/02/2004 **Time:** 16:35
Date Sampled: 09/02/2004 **Time:** 14:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0074**	mg/L	0.002	<0.002	09/10/04	6010 & 200.7	---	0.59	102.33	103.3	102.9
Lead/ICP	**0.0642**	mg/L	0.01	<0.01	09/10/04	6010 & 200.7	---	0.28	100.25	103.58	102.7

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277626 **Report Date:** 09/10/04
Project ID: Encycle RCRA Closure
Sample Name: BIN GG
Sample Matrix: water
Date Received: 09/02/2004 **Time:** 16:35
Date Sampled: 09/02/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0061**	mg/L	0.002	<0.002	09/10/04	6010 & 200.7	---	0.59	102.33	103.3	102.9
Lead/ICP	**0.0782**	mg/L	0.01	<0.01	09/10/04	6010 & 200.7	---	0.28	100.25	103.58	102.7

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~~10463~~

CHAIN OF-CUSTODY

WWW.ANALYSYSINC.COM

ANAL SYS INC.
3512 Montopolis Drive, Austin, TX 78744
Phone: (512) 385-5886 Fax: (512) 385-7411
2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS/ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone 883 1353 Fax 883 7565

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler:

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TOTAL CADMIUM & LEAD								Comments MH
BIN GG	9-2-04	1400	1		X		277625	~~X~~	~~X~~							HOLD PENDING
BIN GG	9-2-04	1600	1		X		277626	~~X~~	~~X~~			analyze per R. Marcus MH				NOTIFICATION
																FROM KEN
																BRADNER

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
T. CLEMENTS	ARCADIS	9-2-04	1635	L. Flowman	ASI	9-2-04	1635
				[illegible]	ASI	9/3/04	0835

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX , 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278076 **Report Date:** 09/22/04
Project ID: Encycle RCRA Closure
Sample Name: Bin GG
Sample Matrix: water
Date Received: 09/20/2004 **Time:** 12:35
Date Sampled: 09/20/2004 **Time:** 12:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/21/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/21/04	6010 & 200.7	---	8.14	82.35	100.7	86.8
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/21/04	6010 & 200.7	---	0.96	71.73	99.72	86.19

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CHAIN-OF-CUSTODY www.analysysinc.com

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Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone 883 1353 Fax 883 7565

Bill To (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City State Zip
ATTN: RICH MARCUS
Phone Fax

Project Name/PO#: Sampler

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL Cl2Pb										RUSH TAT (Pre-Scheduled)	Standard TAT
BIN GG	9-20-04	1215	1	X		278076	X	X											X											

Special Instructions (such as special QC requirements, lists, methods, etc…)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	9-20-04	1235	L Plowman	ASI	9-20-04	1235
				L Flynn	ASI	9/21/04	0845

YES ✓
NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278089 **Report Date:** 09/22/04
Project ID:
Sample Name: Bin GG
Sample Matrix: water
Date Received: 09/20/2004 **Time:** 16:00
Date Sampled: 09/20/2004 **Time:** 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/21/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/21/04	6010 & 200.7	J	8.14	82.35	100.7	86.8
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/21/04	6010 & 200.7	---	0.96	71.73	99.72	86.19

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 278089 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID:
Sample Name: Bin GG

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes: _____

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ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS/ENCYCLE
Address 711 N. CARANCAHUA
City CC State TX Zip 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone 883 1353 Fax 883 7565
Project Name/PO#: _____ Sampler _____

Bill To (if different):
Company Name ENCYCLE RCRA CLOSURE
Address _____
City _____ State _____ Zip _____
ATTN: RICH MARCUS
Phone _____ Fax _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL (d&p)											RUSH TAT (Pre-Scheduled)	Standard TAT
BINGG	9-20-04	1500	1	X		278089	X	X											X												

Special Instructions (such as special QC requirements, lists, methods, etc…)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J Clements	Arcadis	9-20-04	1600	L Bowman	ASI	9-20-04	1600
				[illegible]	ASI	9/21/04	0845

YES	√		
NO			

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

RECEIVED
MAY 10 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224379

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/05/2004

Olga Verónica McDonald
Signature

5/5/04
Date

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 42

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/05/2004

Job Number.: 224379
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224379-1	BIN K	Water	04/20/2004	16:10	04/20/2004	16:44
224379-2	BIN H	Water	04/20/2004	16:25	04/20/2004	16:44

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224379 Date: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN K
Date Sampled.....: 04/20/2004
Time Sampled.....: 16:10
Sample Matrix.....: Water

Laboratory Sample ID: 224379-1
Date Received.....: 04/20/2004
Time Received.....: 16:44

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/22/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/27/04	dev
SW-846 6010B	Arsenic (As), Total	0.02	0.01	mg/L	04/21/04	jem
SW-846 6010B	Barium (Ba), Total	0.10	0.01	mg/L	04/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Cobalt (Co), Total	0.03	0.01	mg/L	04/21/04	jem
SW-846 6010B	Copper (Cu), Total	0.45	0.01	mg/L	04/21/04	jem
SW-846 6010B	Lead (Pb), Total	0.60	0.01	mg/L	04/21/04	jem
SW-846 6010B	Manganese (Mn), Total	0.05	0.01	mg/L	04/21/04	jem
SW-846 6010B	Nickel (Ni), Total	0.12	0.01	mg/L	04/21/04	jem
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/26/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Zinc (Zn), Total	2.88	0.01	mg/L	04/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/21/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224379 Date: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN H
Date Sampled.....: 04/20/2004
Time Sampled.....: 16:25
Sample Matrix.....: Water

Laboratory Sample ID: 224379-2
Date Received.....: 04/20/2004
Time Received.....: 16:44

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/22/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/27/04	dev
SW-846 6010B	Arsenic (As), Total	0.02	0.01	mg/L	04/21/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	04/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Copper (Cu), Total	0.30	0.01	mg/L	04/21/04	jem
SW-846 6010B	Lead (Pb), Total	0.79	0.01	mg/L	04/21/04	jem
SW-846 6010B	Manganese (Mn), Total	0.03	0.01	mg/L	04/21/04	jem
SW-846 6010B	Nickel (Ni), Total	0.05	0.01	mg/L	04/21/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/26/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Zinc (Zn), Total	0.91	0.01	mg/L	04/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/21/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92848 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042204HG	0.00468		0.00500		93.6	%	90-110	04/22/2004	1535
ICB			0.000050							04/22/2004	1539
LCS		M042204LG	0.00476		0.0050		95.2	%	85-115	04/22/2004	1542
MB			-0.000076							04/22/2004	1544
MS	224392-1	M042204HG	0.00520		0.00500	0.000414	95.7	%	75-125	04/22/2004	1550
MSD	224392-1	M042204HG	0.00519	0.00520	0.00500	0.000414	95.5	%	75-125	04/22/2004	1552
							0.2	R	20		
CCV		M042204HG	0.00489		0.00500		97.8	%	80-120	04/22/2004	1609
CCB			0.000156							04/22/2004	1611
CCV		M042204HG	0.00471		0.00500		94.2	%	80-120	04/22/2004	1635
CCB			0.000321							04/22/2004	1639

Test Method.....: EPA 335.3 Batch.....: 93010 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		042704	-0.0025							04/27/2004	1400
CCV		CN40427E	0.4156		0.4000		103.9	%	90-110	04/27/2004	1401
MB		042704	0.0027							04/27/2004	1403
LCS		CN40427P	0.0450		0.05000		90.0	%	69-112	04/27/2004	1404
LCS		CN40427Q	0.0997		0.1000		99.7	%	69-112	04/27/2004	1406
LCS		CN40427R	0.1786		0.2000		89.3	%	69-112	04/27/2004	1407
MS	224392-1	CN40427S	0.0564		0.05000	0.0067	99.4	%	75-125	04/27/2004	1413
MSD	224392-1	CN40427S	0.0528	0.0564	0.05000	0.0067	92.2	%	75-125	04/27/2004	1415
							6.6	R	20		
CCB		042704	0.0002							04/27/2004	1426
CCV		CN40427E	0.4159		0.4000		104.0	%	90-110	04/27/2004	1428
MS	224455-12	CN40427S	0.0519		0.05000	0.0018	100.2	%	75-125	04/27/2004	1431
MSD	224455-12	CN40427S	0.0469	0.0519	0.05000	0.0018	90.2	%	75-125	04/27/2004	1432
							10.1	R	20		
CCB		042704	-0.0020							04/27/2004	1434
CCV		CN40427E	0.4065		0.4000		101.6	%	90-110	04/27/2004	1435

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98682194		2.00		99.3	%	90-110	04/21/2004	1202
ICV		M0368	0.96282794		1.00		96.3	%	90-110	04/21/2004	1217
ICV		M0380	0.96441851		1.00		96.4	%	90-110	04/21/2004	1233
ICB			-0.0043145							04/21/2004	1250
CCB			-0.0026946							04/21/2004	1302
ICB			-0.0031249							04/21/2004	1305
CCV		M0379	0.99652252		1.00		99.7	%	90-110	04/21/2004	1314
CCB			-0.0055443							04/21/2004	1327
MB		3010	-0.0072995							04/21/2004	1331
LCS		M351	0.51078999		0.500		102.2	%	85-110	04/21/2004	1337

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224368-1	M351	0.55419534		0.500	0.01936286	107.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.54505749	0.55419534	0.500	0.01936286	105.1	%	75-125	04/21/2004	1356
							1.7	R	20		
CCV		M0388	0.99977030		1.00		100.0	%	90-110	04/21/2004	1412
CCB			-0.0034037							04/21/2004	1426
CCB			-0.0037158							04/21/2004	1445
CCV		M0388	0.98860619		1.00		98.9	%	90-110	04/21/2004	1521
CCB			-0.0029723							04/21/2004	1535
MB		3050	-0.0059921							04/21/2004	1538
LCS		M351	0.50559780		0.500		101.1	%	82-110	04/21/2004	1545
SB		M383D	2.24535567		2.31		97.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.50588736		0.500	0.02993989	95.2	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50298047	0.50588736	0.500	0.02993989	94.6	%	75-125	04/21/2004	1612
							0.6	R	20		
CCV		M0388	1.00958398		1.00		101.0	%	90-110	04/21/2004	1621
CCB			-0.0034159							04/21/2004	1632
MB		3010	0.00221022							04/21/2004	1635
LCS		M351	0.48585761		0.500		97.2	%	85-110	04/21/2004	1639
MS	224341-4	M351	0.52661415		0.500	0.00293508	104.7	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.52488059	0.52661415	0.500	0.00293508	104.4	%	75-125	04/21/2004	1653
							0.3	R	20		
CCV		M0388	0.96601029		1.00		96.6	%	90-110	04/21/2004	1717
CCB			-0.0047306							04/21/2004	1730
MB		3050	-0.0039584							04/21/2004	1751
LCS		M351	0.50407557		0.500		100.8	%	85-110	04/21/2004	1757
CCV		M0388	0.99169483		1.00		99.2	%	90-110	04/21/2004	1811
CCB			-0.0045971							04/21/2004	1825
MS	224358-9	M351	0.52572204		0.500	0.01096506	103.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.52044010	0.52572204	0.500	0.01096506	101.9	%	75-125	04/21/2004	1840
							1.0	R	20		
MB		3010	-0.0041382							04/21/2004	1904
CCV		M0388	0.98898259		1.00		98.9	%	90-110	04/21/2004	1907
CCB			-0.0043333							04/21/2004	1919
CCV		M0388	0.99021080		1.00		99.0	%	90-110	04/21/2004	2001
CCB			-0.0030498							04/21/2004	2015
CCV		M0388	0.98724345		1.00		98.7	%	90-110	04/21/2004	2051
CCB			-0.0011951							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99867639		2.00		99.9	%	90-110	04/21/2004	1202
ICV		M0369	0.97094086		1.00		97.1	%	90-110	04/21/2004	1222
ICB			-0.0029037							04/21/2004	1250
CCB			-0.0028426							04/21/2004	1302
ICB			-0.0028814							04/21/2004	1305
CCV		M0379	1.01243604		1.00		101.2	%	90-110	04/21/2004	1314
CCB			-0.0030621							04/21/2004	1327
MB		3010	-0.0031161							04/21/2004	1331

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M351	0.51908266		0.500		103.8	%	90-110	04/21/2004	1337
MS	224368-1	M351	1.33162816		0.500	0.88112040	90.1	%	75-125	04/21/2004	1351
MSD	224368-1	M351	1.32780978	1.33162816	0.500	0.88112040	89.3	%	75-125	04/21/2004	1356
							0.3	R	20		
CCV		M0388	1.00868794		1.00		100.9	%	90-110	04/21/2004	1412
CCB			-0.0028905							04/21/2004	1426
CCB			-0.0028545							04/21/2004	1445
CCV		M0388	0.99225959		1.00		99.2	%	90-110	04/21/2004	1521
CCB			-0.0029637							04/21/2004	1535
MB		3050	-0.0030322							04/21/2004	1538
LCS		M351	0.50580831		0.500		101.2	%	89-110	04/21/2004	1545
SB		M383D	8.98538216		10.00		89.9	%	80-120	04/21/2004	1550
CCV		M0388	1.00870435		1.00		100.9	%	90-110	04/21/2004	1621
CCB			-0.0028469							04/21/2004	1632
MB		3010	-0.0021743							04/21/2004	1635
LCS		M351	0.48895480		0.500		97.8	%	90-110	04/21/2004	1639
MS	224341-4	M351	1.68258005		0.500	1.20084476	96.3	%	75-125	04/21/2004	1647
MSD	224341-4	M351	1.66892327	1.68258005	0.500	1.20084476	93.6	%	75-125	04/21/2004	1653
							0.8	R	20		
CCV		M0388	0.99352492		1.00		99.4	%	90-110	04/21/2004	1717
CCB			-0.0028806							04/21/2004	1730
MB		3050	-0.0029162							04/21/2004	1751
LCS		M351	0.51465049		0.500		102.9	%	90-110	04/21/2004	1757
CCV		M0388	1.00046762		1.00		100.0	%	90-110	04/21/2004	1811
CCB			-0.0030143							04/21/2004	1825
MS	224358-9	M351	0.66083953		0.500	0.12323086	107.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.64789245	0.66083953	0.500	0.12323086	104.9	%	75-125	04/21/2004	1840
							2.0	R	20		
MB		3010	-0.0028417							04/21/2004	1904
CCV		M0388	0.98387047		1.00		98.4	%	90-110	04/21/2004	1907
CCB			-0.0030050							04/21/2004	1919
CCV		M0388	0.98424266		1.00		98.4	%	90-110	04/21/2004	2001
CCB			-0.0029379							04/21/2004	2015
CCV		M0388	0.97390143		1.00		97.4	%	90-110	04/21/2004	2051
CCB			-0.0028471							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00206161		2.00		100.1	%	90-110	04/21/2004	1202
ICV		M0368	0.97008424		1.00		97.0	%	90-110	04/21/2004	1217
ICV		M0380	0.97635344		1.00		97.6	%	90-110	04/21/2004	1233
ICB			-0.0025280							04/21/2004	1250
CCB			-0.0028923							04/21/2004	1302
ICB			-0.0029491							04/21/2004	1305
CCV		M0379	1.01021987		1.00		101.0	%	90-110	04/21/2004	1314
CCB			-0.0025002							04/21/2004	1327
MB		3010	-0.0026280							04/21/2004	1331
LCS		M351	0.51576853		0.500		103.2	%	90-110	04/21/2004	1337

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	224368-1	M351	0.48455881		0.500	0.00001307	96.9	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.48276881	0.48455881	0.500	0.00001307	96.6	%	75-125	04/21/2004	1356
							0.4	R	20		
CCV		M0388	1.00412533		1.00		100.4	%	90-110	04/21/2004	1412
CCB			-0.0030430							04/21/2004	1426
CCB			-0.0028665							04/21/2004	1445
CCV		M0388	0.98700008		1.00		98.7	%	90-110	04/21/2004	1521
CCB			-0.0023809							04/21/2004	1535
MB		3050	-0.0031665							04/21/2004	1538
LCS		M351	0.50004859		0.500		100.0	%	89-110	04/21/2004	1545
SB		M383D	1.92898265		2.07		93.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.56665323		0.500	0.08133142	97.1	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.56735565	0.56665323	0.500	0.08133142	97.2	%	75-125	04/21/2004	1612
							0.1	R	20		
CCV		M0388	1.00672308		1.00		100.7	%	90-110	04/21/2004	1621
CCB			-0.0030899							04/21/2004	1632
MB		3010	-0.0034035							04/21/2004	1635
LCS		M351	0.48694222		0.500		97.4	%	90-110	04/21/2004	1639
MS	224341-4	M351	0.52079477		0.500	0.03169071	97.8	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.52385486	0.52079477	0.500	0.03169071	98.4	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	0.99878277		1.00		99.9	%	90-110	04/21/2004	1717
CCB			-0.0037539							04/21/2004	1730
MB		3050	-0.0030662							04/21/2004	1751
LCS		M351	0.50912781		0.500		101.8	%	90-110	04/21/2004	1757
CCV		M0388	1.00072309		1.00		100.1	%	90-110	04/21/2004	1811
CCB			-0.0026589							04/21/2004	1825
MS	224358-9	M351	0.58941431		0.500	0.06153031	105.6	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.58258070	0.58941431	0.500	0.06153031	104.2	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0032603							04/21/2004	1904
CCV		M0388	0.98656964		1.00		98.7	%	90-110	04/21/2004	1907
CCB			-0.0028473							04/21/2004	1919
CCV		M0388	0.98414166		1.00		98.4	%	90-110	04/21/2004	2001
CCB			-0.0028815							04/21/2004	2015
CCV		M0388	0.97025569		1.00		97.0	%	90-110	04/21/2004	2051
CCB			-0.0029403							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00774758		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.98776784		1.00		98.8	%	90-110	04/21/2004	1217
ICV		M0380	1.02707696		1.00		102.7	%	90-110	04/21/2004	1233
ICB			-0.0033882							04/21/2004	1250
CCB			-0.0028228							04/21/2004	1302
ICB			-0.0028928							04/21/2004	1305
CCV		M0379	1.01353258		1.00		101.4	%	90-110	04/21/2004	1314
CCB			-0.0027345							04/21/2004	1327

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0032059							04/21/2004	1331
LCS		M351	0.51708599		0.500		103.4	%	90-110	04/21/2004	1337
MS	224368-1	M351	0.46766520		0.500	-0.0012401	93.8	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.46004736	0.46766520	0.500	-0.0012401	92.3	%	75-125	04/21/2004	1356
							1.6	R	20		
CCV		M0388	1.01801782		1.00		101.8	%	90-110	04/21/2004	1412
CCB			-0.0030417							04/21/2004	1426
CCB			-0.0031439							04/21/2004	1445
CCV		M0388	1.00223148		1.00		100.2	%	90-110	04/21/2004	1521
CCB			-0.0031534							04/21/2004	1535
MB		3050	-0.0032516							04/21/2004	1538
LCS		M351	0.51282839		0.500		102.6	%	90-110	04/21/2004	1545
SB		M383D	1.99903773		2.10		95.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.47787617		0.500	0.03861881	87.9	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.47758248	0.47787617	0.500	0.03861881	87.8	%	75-125	04/21/2004	1612
							0.1	R	20		
CCV		M0388	1.02503383		1.00		102.5	%	90-110	04/21/2004	1621
CCB			-0.0028050							04/21/2004	1632
MB		3010	-0.0027467							04/21/2004	1635
LCS		M351	0.49553908		0.500		99.1	%	90-110	04/21/2004	1639
MS	224341-4	M351	0.46606526		0.500	-0.0028026	93.8	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.46790647	0.46606526	0.500	-0.0028026	94.1	%	75-125	04/21/2004	1653
							0.4	R	20		
CCV		M0388	1.01843418		1.00		101.8	%	90-110	04/21/2004	1717
CCB			-0.0030043							04/21/2004	1730
MB		3050	-0.0030011							04/21/2004	1751
LCS		M351	0.51336530		0.500		102.7	%	90-110	04/21/2004	1757
CCV		M0388	1.01287560		1.00		101.3	%	90-110	04/21/2004	1811
CCB			-0.0033174							04/21/2004	1825
MS	224358-9	M351	0.52300134		0.500	0.01294821	102.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.51715899	0.52300134	0.500	0.01294821	100.8	%	75-125	04/21/2004	1840
							1.1	R	20		
MB		3010	-0.0033594							04/21/2004	1904
CCV		M0388	0.99675091		1.00		99.7	%	90-110	04/21/2004	1907
CCB			-0.0031636							04/21/2004	1919
CCV		M0388	0.99493461		1.00		99.5	%	90-110	04/21/2004	2001
CCB			-0.0030964							04/21/2004	2015
CCV		M0388	0.98886171		1.00		98.9	%	90-110	04/21/2004	2051
CCB			-0.0032256							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00979906		2.00		100.5	%	90-110	04/21/2004	1202
ICV		M0368	1.01890077		1.00		101.9	%	90-110	04/21/2004	1217
ICV		M0380	1.03516736		1.00		103.5	%	90-110	04/21/2004	1233
ICB			-0.0038469							04/21/2004	1250
CCB			-0.0039742							04/21/2004	1302
ICB			-0.0043485							04/21/2004	1305

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0379	1.04200005		1.00		104.2	%	90-110	04/21/2004	1314
CCB			-0.0042320							04/21/2004	1327
MB		3010	-0.0043206							04/21/2004	1331
LCS		M351	0.54894621		0.500		109.8	%	89-112	04/21/2004	1337
MS	224368-1	M351	0.57047248		0.500	0.02504835	109.1	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.56771792	0.57047248	0.500	0.02504835	108.5	%	75-125	04/21/2004	1356
							0.5	R	20		
CCV		M0388	1.05235814		1.00		105.2	%	90-110	04/21/2004	1412
CCB			-0.0012687							04/21/2004	1426
CCB			-0.0025610							04/21/2004	1445
CCV		M0388	1.02422860		1.00		102.4	%	90-110	04/21/2004	1521
CCB			-0.0052329							04/21/2004	1535
MB		3050	-0.0049815							04/21/2004	1538
LCS		M351	0.56148134		0.500		112.3	%	83-119	04/21/2004	1545
SB		M383D	0.87393654		0.85		102.8	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.56414752		0.500	0.06012872	100.8	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.56689617	0.56414752	0.500	0.06012872	101.4	%	75-125	04/21/2004	1612
							0.5	R	20		
CCV		M0388	1.05173319		1.00		105.2	%	90-110	04/21/2004	1621
CCB			-0.0053850							04/21/2004	1632
MB		3010	-0.0055770							04/21/2004	1635
LCS		M351	0.51464634		0.500		102.9	%	89-112	04/21/2004	1639
MS	224341-4	M351	0.55970562		0.500	0.01707925	108.5	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.56247678	0.55970562	0.500	0.01707925	109.1	%	75-125	04/21/2004	1653
							0.5	R	20		
CCV		M0388	1.07442592		1.00		107.4	%	90-110	04/21/2004	1717
CCB			-0.0076806							04/21/2004	1730
MB		3050	-0.0073884							04/21/2004	1751
LCS		M351	0.55528181		0.500		111.1	%	89-112	04/21/2004	1757
CCV		M0388	1.05460460		1.00		105.5	%	90-110	04/21/2004	1811
CCB			-0.0072313							04/21/2004	1825
MS	224358-9	M351	0.65565918		0.500	0.06634480	117.9	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.64494725	0.65565918	0.500	0.06634480	115.7	%	75-125	04/21/2004	1840
							1.6	R	20		
MB		3010	-0.0055292							04/21/2004	1904
CCV		M0388	1.03423098		1.00		103.4	%	90-110	04/21/2004	1907
CCB			-0.0060915							04/21/2004	1919
CCV		M0388	1.05214653		1.00		105.2	%	90-110	04/21/2004	2001
CCB			-0.0074911							04/21/2004	2015
CCV		M0388	1.04142408		1.00		104.1	%	90-110	04/21/2004	2051
CCB			-0.0078002							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00168952		2.00		100.1	%	90-110	04/21/2004	1202
ICV		M0368	1.00594144		1.00		100.6	%	90-110	04/21/2004	1217
ICV		M0380	1.00334114		1.00		100.3	%	90-110	04/21/2004	1233
ICB			-0.0027467							04/21/2004	1250

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0022444							04/21/2004	1302
ICB			-0.0036068							04/21/2004	1305
CCV		M0379	1.01092704		1.00		101.1	%	90-110	04/21/2004	1314
CCB			-0.0021854							04/21/2004	1327
MB		3010	-0.0037823							04/21/2004	1331
LCS		M351	0.51588725		0.500		103.2	%	87-112	04/21/2004	1337
MS	224368-1	M351	0.91726900		0.500	0.46706968	90.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.91028261	0.91726900	0.500	0.46706968	88.6	%	75-125	04/21/2004	1356
							0.8	R	20		
CCV		M0388	1.01480849		1.00		101.5	%	90-110	04/21/2004	1412
CCB			-0.0020732							04/21/2004	1426
CCB			-0.0017934							04/21/2004	1445
CCV		M0388	0.99311075		1.00		99.3	%	90-110	04/21/2004	1521
CCB			-0.0030253							04/21/2004	1535
MB		3050	-0.0018923							04/21/2004	1538
LCS		M351	0.51764920		0.500		103.5	%	86-110	04/21/2004	1545
SB		M383D	1.84454417		2.04		90.4	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.51350672		0.500	0.06803660	89.1	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50755590	0.51350672	0.500	0.06803660	87.9	%	75-125	04/21/2004	1612
							1.2	R	20		
CCV		M0388	0.99676523		1.00		99.7	%	90-110	04/21/2004	1621
CCB			-0.0024241							04/21/2004	1632
MB		3010	-0.0025587							04/21/2004	1635
LCS		M351	0.48653595		0.500		97.3	%	87-112	04/21/2004	1639
MS	224341-4	M351	0.47840595		0.500	0.01807910	92.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.48099242	0.47840595	0.500	0.01807910	92.6	%	75-125	04/21/2004	1653
							0.5	R	20		
CCV		M0388	0.98943828		1.00		98.9	%	90-110	04/21/2004	1717
CCB			-0.0028843							04/21/2004	1730
MB		3050	-0.0041127							04/21/2004	1751
LCS		M351	0.51279230		0.500		102.6	%	87-112	04/21/2004	1757
CCV		M0388	0.99650913		1.00		99.7	%	90-110	04/21/2004	1811
CCB			-0.0015159							04/21/2004	1825
MS	224358-9	M351	0.54652644		0.500	0.03920437	101.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.53937814	0.54652644	0.500	0.03920437	100.0	%	75-125	04/21/2004	1840
							1.3	R	20		
MB		3010	-0.0001724							04/21/2004	1904
CCV		M0388	0.97321258		1.00		97.3	%	90-110	04/21/2004	1907
CCB			-0.0015702							04/21/2004	1919
CCV		M0388	0.97709305		1.00		97.7	%	90-110	04/21/2004	2001
CCB			-0.0041845							04/21/2004	2015
CCV		M0388	0.97612759		1.00		97.6	%	90-110	04/21/2004	2051
CCB			-0.0024346							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99508405		2.00		99.8	%	90-110	04/21/2004	1202
ICV		M0368	0.98926333		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	0.95701559		1.00		95.7	%	90-110	04/21/2004	1233
ICB			-0.0031304							04/21/2004	1250
CCB			-0.0033410							04/21/2004	1302
ICB			-0.0033173							04/21/2004	1305
CCV		M0379	1.00612784		1.00		100.6	%	90-110	04/21/2004	1314
CCB			-0.0032272							04/21/2004	1327
MB		3010	-0.0032886							04/21/2004	1331
LCS		M351	0.51495568		0.500		103.0	%	88-110	04/21/2004	1337
MS	224368-1	M351	1.82511218		0.500	1.36602576	91.8	%	75-125	04/21/2004	1351
MSD	224368-1	M351	1.79795034	1.82511218	0.500	1.36602576	86.4	%	75-125	04/21/2004	1356
							1.5	R	20		
CCV		M0388	1.00458088		1.00		100.5	%	90-110	04/21/2004	1412
CCB			-0.0031803							04/21/2004	1426
CCB			-0.0030519							04/21/2004	1445
CCV		M0388	0.98589260		1.00		98.6	%	90-110	04/21/2004	1521
CCB			-0.0031247							04/21/2004	1535
MB		3050	-0.0031397							04/21/2004	1538
LCS		M351	0.52260399		0.500		104.5	%	88-110	04/21/2004	1545
SB		M383D	5.27771348		5.68		92.9	%	80-120	04/21/2004	1550
MS	224346-4	M351	2.06111198		0.500	1.66701726	78.8	%	75-125	04/21/2004	1606
MSD	224346-4	M351	2.11723121	2.06111198	0.500	1.66701726	90.0	%	75-125	04/21/2004	1612
							2.7	R	20		
CCV		M0388	1.00419374		1.00		100.4	%	90-110	04/21/2004	1621
CCB			-0.0030011							04/21/2004	1632
MB		3010	-0.0030321							04/21/2004	1635
LCS		M351	0.48776811		0.500		97.6	%	88-110	04/21/2004	1639
MS	224341-4	M351	0.97391567		0.500	0.48964812	96.9	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.96026200	0.97391567	0.500	0.48964812	94.1	%	75-125	04/21/2004	1653
							1.4	R	20		
CCV		M0388	0.99544542		1.00		99.5	%	90-110	04/21/2004	1717
CCB			-0.0029037							04/21/2004	1730
MB		3050	-0.0029811							04/21/2004	1751
LCS		M351	0.53085524		0.500		106.2	%	88-110	04/21/2004	1757
CCV		M0388	0.99631635		1.00		99.6	%	90-110	04/21/2004	1811
CCB			-0.0030472							04/21/2004	1825
MS	224358-9	M351	0.59190575		0.500	0.07460893	103.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.58333378	0.59190575	0.500	0.07460893	101.7	%	75-125	04/21/2004	1840
							1.5	R	20		
MB		3010	-0.0028507							04/21/2004	1904
CCV		M0388	0.99366907		1.00		99.4	%	90-110	04/21/2004	1907
CCB			-0.0030583							04/21/2004	1919
CCV		M0388	0.98284938		1.00		98.3	%	90-110	04/21/2004	2001
CCB			-0.0033478							04/21/2004	2015
CCV		M0388	0.96853671		1.00		96.9	%	90-110	04/21/2004	2051
CCB			-0.0031842							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00063652		2.00		100.0	%	90-110	04/21/2004	1202
ICV		M0368	0.98932728		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	1.00334628		1.00		100.3	%	90-110	04/21/2004	1233
ICB			-0.0034612							04/21/2004	1250
CCB			-0.0026612							04/21/2004	1302
ICB			-0.0034226							04/21/2004	1305
CCV		M0379	1.01701475		1.00		101.7	%	90-110	04/21/2004	1314
CCB			-0.0030884							04/21/2004	1327
MB		3010	-0.0032762							04/21/2004	1331
LCS		M351	0.52160979		0.500		104.3	%	90-112	04/21/2004	1337
MS	224368-1	M351	0.48281860		0.500	0.01848639	92.9	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.47641730	0.48281860	0.500	0.01848639	91.6	%	75-125	04/21/2004	1356
							1.3	R	20		
CCV		M0388	1.01567598		1.00		101.6	%	90-110	04/21/2004	1412
CCB			-0.0027367							04/21/2004	1426
CCB			-0.0032287							04/21/2004	1445
CCV		M0388	0.99478573		1.00		99.5	%	90-110	04/21/2004	1521
CCB			-0.0033089							04/21/2004	1535
MB		3050	-0.0028518							04/21/2004	1538
LCS		M351	0.50350019		0.500		100.7	%	89-110	04/21/2004	1545
SB		M383D	1.76553579		1.89		93.4	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.50737458		0.500	0.06388551	88.7	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50627554	0.50737458	0.500	0.06388551	88.5	%	75-125	04/21/2004	1612
							0.2	R	20		
CCV		M0388	1.01194469		1.00		101.2	%	90-110	04/21/2004	1621
CCB			-0.0021951							04/21/2004	1632
MB		3010	-0.0024640							04/21/2004	1635
LCS		M351	0.49409386		0.500		98.8	%	90-112	04/21/2004	1639
MS	224341-4	M351	0.47262722		0.500	0.00698344	93.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.47555765	0.47262722	0.500	0.00698344	93.7	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	1.01218399		1.00		101.2	%	90-110	04/21/2004	1717
CCB			-0.0027875							04/21/2004	1730
MB		3050	-0.0024760							04/21/2004	1751
LCS		M351	0.51757156		0.500		103.5	%	90-112	04/21/2004	1757
CCV		M0388	1.01115293		1.00		101.1	%	90-110	04/21/2004	1811
CCB			-0.0035263							04/21/2004	1825
MS	224358-9	M351	0.55592071		0.500	0.04437544	102.3	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.54925465	0.55592071	0.500	0.04437544	101.0	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0025530							04/21/2004	1904
CCV		M0388	0.99489127		1.00		99.5	%	90-110	04/21/2004	1907
CCB			-0.0028251							04/21/2004	1919
CCV		M0388	0.98675462		1.00		98.7	%	90-110	04/21/2004	2001
CCB			-0.0031815							04/21/2004	2015
CCV		M0388	0.96793545		1.00		96.8	%	90-110	04/21/2004	2051
CCB			-0.0030340							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00789374		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.98930884		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	0.98435923		1.00		98.4	%	90-110	04/21/2004	1233
ICB			0.00341046							04/21/2004	1250
CCB			-0.0005201							04/21/2004	1302
ICB			-0.0054346							04/21/2004	1305
CCV		M0379	1.01052139		1.00		101.1	%	90-110	04/21/2004	1314
CCB			0.00542715							04/21/2004	1327
MB		3010	0.00349215							04/21/2004	1331
LCS		M351	0.51582176		0.500		103.2	%	82-111	04/21/2004	1337
MS	224368-1	M351	0.56914270		0.500	0.04329007	105.2	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.55823850	0.56914270	0.500	0.04329007	103.0	%	75-125	04/21/2004	1356
							1.9	R	20		
CCV		M0388	1.01064762		1.00		101.1	%	90-110	04/21/2004	1412
CCB			-0.0018298							04/21/2004	1426
CCB			-0.0040831							04/21/2004	1445
CCV		M0388	0.99852440		1.00		99.9	%	90-110	04/21/2004	1521
CCB			0.00398880							04/21/2004	1535
MB		3050	-0.0018296							04/21/2004	1538
LCS		M351	0.50433565		0.500		100.9	%	80-110	04/21/2004	1545
SB		M383D	0.96900302		0.996		97.3	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.47015590		0.500	-0.0172731	97.5	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.47134289	0.47015590	0.500	-0.0172731	97.7	%	75-125	04/21/2004	1612
							0.3	R	20		
CCV		M0388	1.02854925		1.00		102.9	%	90-110	04/21/2004	1621
CCB			0.00664351							04/21/2004	1632
MB		3010	-0.0006600							04/21/2004	1635
LCS		M351	0.48398730		0.500		96.8	%	82-111	04/21/2004	1639
MS	224341-4	M351	0.55331423		0.500	0.03152910	104.4	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.55805319	0.55331423	0.500	0.03152910	105.3	%	75-125	04/21/2004	1653
							0.9	R	20		
CCV		M0388	0.95425891		1.00		95.4	%	90-110	04/21/2004	1717
CCB			-0.0007683							04/21/2004	1730
MB		3050	0.00069773							04/21/2004	1751
LCS		M351	0.48263814		0.500		96.5	%	82-111	04/21/2004	1757
CCV		M0388	0.97980793		1.00		98.0	%	90-110	04/21/2004	1811
CCB			-0.0033974							04/21/2004	1825
MS	224358-9	M351	0.50241517		0.500	-0.0119756	102.9	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.50873253	0.50241517	0.500	-0.0119756	104.1	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0065146							04/21/2004	1904
CCV		M0388	0.99718366		1.00		99.7	%	90-110	04/21/2004	1907
CCB			0.00340628							04/21/2004	1919
CCV		M0388	1.01045708		1.00		101.0	%	90-110	04/21/2004	2001
CCB			-0.0026318							04/21/2004	2015
CCV		M0388	0.99305601		1.00		99.3	%	90-110	04/21/2004	2051
CCB			-0.0039853							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.00233983		1.0		100.2	%	90-110	04/21/2004	1202
ICV		M0369	0.99039974		1.00		99.0	%	90-110	04/21/2004	1222
ICB			-0.0009610							04/21/2004	1250
CCB			-0.0004665							04/21/2004	1302
ICB			-0.0017360							04/21/2004	1305
CCV		M0379	0.50566997		0.50		101.1	%	90-110	04/21/2004	1314
CCB			-0.0018862							04/21/2004	1327
MB		3010	-0.0011878							04/21/2004	1331
LCS		M351	0.25751463		0.25		103.0	%	87-110	04/21/2004	1337
MS	224368-1	M351	0.25132622		0.25	-0.0050069	102.5	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.25009277	0.25132622	0.25	-0.0050069	102.0	%	75-125	04/21/2004	1356
							0.5	R	20		
CCV		M0388	0.50809940		0.50		101.6	%	90-110	04/21/2004	1412
CCB			-0.0009420							04/21/2004	1426
CCB			-0.0017608							04/21/2004	1445
CCV		M0388	0.50001695		0.50		100.0	%	90-110	04/21/2004	1521
CCB			-0.0019475							04/21/2004	1535
MB		3050	-0.0019559							04/21/2004	1538
LCS		M351	0.24876006		0.25		99.5	%	81-110	04/21/2004	1545
SB		M383D	1.04203460		0.953		109.3	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.23920034		0.25	-0.0049577	97.7	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.24041576	0.23920034	0.25	-0.0049577	98.1	%	75-125	04/21/2004	1612
							0.5	R	20		
CCV		M0388	0.50904850		0.50		101.8	%	90-110	04/21/2004	1621
CCB			-0.0015870							04/21/2004	1632
MB		3010	-0.0018040							04/21/2004	1635
LCS		M351	0.24602567		0.25		98.4	%	87-110	04/21/2004	1639
MS	224341-4	M351	0.24751042		0.25	-0.0051872	101.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.24554174	0.24751042	0.25	-0.0051872	100.3	%	75-125	04/21/2004	1653
							0.8	R	20		
CCV		M0388	0.50795639		0.50		101.6	%	90-110	04/21/2004	1717
CCB			-0.0010042							04/21/2004	1730
MB		3050	-0.0021778							04/21/2004	1751
LCS		M351	0.25260300		0.25		101.0	%	87-110	04/21/2004	1757
CCV		M0388	0.50139941		0.50		100.3	%	90-110	04/21/2004	1811
CCB			-0.0018077							04/21/2004	1825
MS	224358-9	M351	0.25679236		0.25	-0.0015276	103.3	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.25502657	0.25679236	0.25	-0.0015276	102.6	%	75-125	04/21/2004	1840
							0.7	R	20		
MB		3010	-0.0016725							04/21/2004	1904
CCV		M0388	0.49681970		0.50		99.4	%	90-110	04/21/2004	1907
CCB			-0.0013804							04/21/2004	1919
CCV		M0388	0.50236777		0.50		100.5	%	90-110	04/21/2004	2001
CCB			-0.0016716							04/21/2004	2015
CCV		M0388	0.49697360		0.50		99.4	%	90-110	04/21/2004	2051
CCB			-0.0010169							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92968 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.98277231		2.00		99.1	%	90-110	04/26/2004	1200
ICV		M0374	0.99577938		1.00		99.6	%	90-110	04/26/2004	1236
ICB			-0.0037133							04/26/2004	1244
ICB			0.01838703							04/26/2004	1302
CCV		M0388	2.07834066		2.00		103.9	%	90-110	04/26/2004	1313
CCB			-0.0026523							04/26/2004	1326
MB		3010	-0.0052325							04/26/2004	1400
LCS		M351	0.99885994		1.00		99.9	%	83-118	04/26/2004	1403
MB		3010	-0.0105060							04/26/2004	1436
LCS		M351	1.01562673		1.00		101.6	%	83-118	04/26/2004	1439
MB		3010	-0.0118366							04/26/2004	1456
LCS		M351	1.01418761		1.00		101.4	%	83-118	04/26/2004	1500
CCV		M0388	2.08895167		2.00		104.4	%	90-110	04/26/2004	1510
CCB			0.00462716							04/26/2004	1521
CCV		M0388	2.05768171		2.00		102.9	%	90-110	04/26/2004	1607
CCB			-0.0054154							04/26/2004	1620
MS	224420-1	M351	1.04987058		1.00	-0.0244001	107.4	%	75-125	04/26/2004	1637
MSD	224420-1	M351	1.03564325	1.04987058	1.00	-0.0244001	106.0	%	75-125	04/26/2004	1643
							1.4	R	20		
CCV		M0388	1.99222975		2.00		99.6	%	90-110	04/26/2004	1707
CCB			-0.0066900							04/26/2004	1721
CCV		M0388	2.00749176		2.00		100.4	%	90-110	04/26/2004	1809
CCB			-0.0044275							04/26/2004	1822
MB		3050	-0.0137855							04/26/2004	1839
LCS		M351	1.01414214		1.00		101.4	%	82-111	04/26/2004	1846
SB		M383D	1.43131012		1.41		101.5	%	80-120	04/26/2004	1851
CCV		M0388	1.98217992		2.00		99.1	%	90-110	04/26/2004	1911
CCB			-0.0052083							04/26/2004	1925
MS	224431-3	M351	0.88406745		1.00	0.05230133	83.2	%	75-125	04/26/2004	1950
MSD	224431-3	M351	0.94766097	0.88406745	1.00	0.05230133	89.5	%	75-125	04/26/2004	1956
							6.9	R	20		
CCV		M0388	1.96510117		2.00		98.3	%	90-110	04/26/2004	2017
CCB			-0.0063531							04/26/2004	2031

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00735936		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.95703485		1.00		95.7	%	90-110	04/21/2004	1217
ICV		M0380	0.96962440		1.00		97.0	%	90-110	04/21/2004	1233
ICB			-0.0028295							04/21/2004	1250
CCB			-0.0026708							04/21/2004	1302
ICB			-0.0026616							04/21/2004	1305
CCV		M0379	0.98766245		1.00		98.8	%	90-110	04/21/2004	1314
CCB			-0.0026240							04/21/2004	1327
MB		3010	-0.0034663							04/21/2004	1331
LCS		M351	0.50458313		0.500		100.9	%	89-110	04/21/2004	1337
MS	224368-1	M351	0.49793346		0.500	-0.0021595	100.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.49411083	0.49793346	0.500	-0.0021595	99.3	%	75-125	04/21/2004	1356
							0.8	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224379 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.99027984		1.00		99.0	%	90-110	04/21/2004	1412
CCB			-0.0031341							04/21/2004	1426
CCB			-0.0021960							04/21/2004	1445
CCV		M0388	0.97392056		1.00		97.4	%	90-110	04/21/2004	1521
CCB			-0.0026632							04/21/2004	1535
MB		3050	-0.0029951							04/21/2004	1538
LCS		M351	0.48742509		0.500		97.5	%	87-110	04/21/2004	1545
SB		M383D	1.92735657		2.04		94.5	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.76154227		0.500	0.26049419	100.2	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.76399553	0.76154227	0.500	0.26049419	100.7	%	75-125	04/21/2004	1612
							0.3	R	20		
CCV		M0388	0.99641122		1.00		99.6	%	90-110	04/21/2004	1621
CCB			-0.0029224							04/21/2004	1632
MB		3010	-0.0027956							04/21/2004	1635
LCS		M351	0.48199993		0.500		96.4	%	89-110	04/21/2004	1639
MS	224341-4	M351	0.50530796		0.500	-0.0004248	101.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.50823958	0.50530796	0.500	-0.0004248	101.7	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	0.98841446		1.00		98.8	%	90-110	04/21/2004	1717
CCB			-0.0027761							04/21/2004	1730
MB		3050	-0.0030550							04/21/2004	1751
LCS		M351	0.49446648		0.500		98.9	%	89-110	04/21/2004	1757
CCV		M0388	0.98555846		1.00		98.6	%	90-110	04/21/2004	1811
CCB			-0.0022942							04/21/2004	1825
MS	224358-9	M351	0.61042866		0.500	0.09060581	104.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.60024964	0.61042866	0.500	0.09060581	101.9	%	75-125	04/21/2004	1840
							1.7	R	20		
MB		3010	-0.0025056							04/21/2004	1904
CCV		M0388	0.96969744		1.00		97.0	%	90-110	04/21/2004	1907
CCB			-0.0026115							04/21/2004	1919
CCV		M0388	0.97245240		1.00		97.2	%	90-110	04/21/2004	2001
CCB			-0.0030123							04/21/2004	2015
CCV		M0388	0.95999915		1.00		96.0	%	90-110	04/21/2004	2051
CCB			-0.0030166							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0380	0.98754865		1.00		98.8	%	90-110	04/21/2004	1233
CCV		M0379	1.00248947		1.00		100.2	%	90-110	04/21/2004	1314
CCB			-0.0065085							04/21/2004	1327
MB		3010	-0.0067165							04/21/2004	1331
LCS		M351	0.50050317		0.500		100.1	%	86-110	04/21/2004	1337
CCV		M0388	1.00201745		1.00		100.2	%	90-110	04/21/2004	1412
CCB			-0.0046401							04/21/2004	1426
CCV		M0388	0.97397943		1.00		97.4	%	90-110	04/21/2004	1521
CCB			-0.0055630							04/21/2004	1527
CCV		M0388	1.00551893		1.00		100.6	%	90-110	04/21/2004	1717
CCB			0.00044058							04/21/2004	1730

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D230292

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 3, 2004

STL LOT NUMBER: **I4D230292**

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on April 23, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D230292

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224379-1 04/20/04 16:10 001				
Cadmium	64.5	1.0	ug/L	SW846 6020
Antimony	5.2	1.0	ug/L	SW846 6020
Thallium	1.5	1.0	ug/L	SW846 6020
224379-2 04/20/04 16:25 002				
Cadmium	122	1.0	ug/L	SW846 6020
Antimony	20.3	1.0	ug/L	SW846 6020
Thallium	2.0	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D230292

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D230292

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GETHF	001	224379-1	04/20/04	16:10
GETHJ	002	224379-2	04/20/04	16:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D230292

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4118143	4118048
	WATER	SW846 6010B		4118144	4118049
002	WATER	SW846 6020		4118143	4118048
	WATER	SW846 6010B		4118144	4118049

STL CORPUS CHRISTI

Client Sample ID: 224379-1

TOTAL Metals

Lot-Sample #...: I4D230292-001 Matrix.....: WATER
Date Sampled...: 04/20/04 16:10 Date Received..: 04/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4118143						
Cadmium	64.5	1.0	ug/L	SW846 6020	04/26-04/27/04	GETHF1AA
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4118048	
Antimony	5.2	1.0	ug/L	SW846 6020	04/26-04/27/04	GETHF1AC
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4118048	
Thallium	1.5	1.0	ug/L	SW846 6020	04/26-04/27/04	GETHF1AD
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4118048	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GETHF1AE
		Dilution Factor: 1		Analysis Time..: 13:07	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224379-2

TOTAL Metals

Lot-Sample #...: I4D230292-002 Matrix.....: WATER
Date Sampled...: 04/20/04 16:25 Date Received..: 04/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4118143						
Cadmium	122	1.0	ug/L	SW846 6020	04/26-04/27/04	GETHJ1AA
		Dilution Factor: 1		Analysis Time..: 18:30	MS Run #.....: 4118048	
Antimony	20.3	1.0	ug/L	SW846 6020	04/26-04/27/04	GETHJ1AC
		Dilution Factor: 1		Analysis Time..: 18:30	MS Run #.....: 4118048	
Thallium	2.0	1.0	ug/L	SW846 6020	04/26-04/27/04	GETHJ1AD
		Dilution Factor: 1		Analysis Time..: 18:30	MS Run #.....: 4118048	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GETHJ1AE
		Dilution Factor: 1		Analysis Time..: 12:29	MS Run #.....: 4118049	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D270000-143 **Prep Batch #...:** 4118143						
Antimony	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AC
		Dilution Factor: 1				
		Analysis Time..: 17:02				
Cadmium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AA
		Dilution Factor: 1				
		Analysis Time..: 17:02				
Thallium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AD
		Dilution Factor: 1				
		Analysis Time..: 17:02				
MB Lot-Sample #: I4D270000-144 **Prep Batch #...:** 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GE0RW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:41				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D270000-143 **Prep Batch #...:** 4118143					
Cadmium	99	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AE
		Dilution Factor: 1	Analysis Time..: 17:19		
Antimony	97	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AF
		Dilution Factor: 1	Analysis Time..: 17:19		
Thallium	107	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AG
		Dilution Factor: 1	Analysis Time..: 17:19		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144					
Bismuth	102	(80 - 120)	SW846 6010B	04/26-04/28/04	GE0RW1AC
		Dilution Factor: 1	Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D270000-143 **Prep Batch #...:** 4118143							
Cadmium	50.0	49.3	ug/L	99	SW846 6020	04/26-04/27/04	GE0RT1AE
			Dilution Factor: 1		Analysis Time..: 17:19		
Antimony	50.0	48.4	ug/L	97	SW846 6020	04/26-04/27/04	GE0RT1AF
			Dilution Factor: 1		Analysis Time..: 17:19		
Thallium	50.0	53.3	ug/L	107	SW846 6020	04/26-04/27/04	GE0RT1AG
			Dilution Factor: 1		Analysis Time..: 17:19		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	04/26-04/28/04	GE0RW1AC
			Dilution Factor: 1		Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D220229-001 **Prep Batch #...:** 4118143							
Antimony	100	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AH
	101	(80 - 120)	0.83	(0-20)	SW846 6020	04/26-04/27/04	GEM821AJ
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					
Cadmium	114	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AF
	111	(80 - 120)	0.55	(0-20)	SW846 6020	04/26-04/27/04	GEM821AG
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					
Thallium	110	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AK
	111	(80 - 120)	1.2	(0-20)	SW846 6020	04/26-04/27/04	GEM821AL
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D220229-001 **Prep Batch #...:** 4118143									
Antimony									
	2.1	50.0	52.1	ug/L	100		SW846 6020	04/26-04/27/04	GEM821AH
	2.1	50.0	52.6	ug/L	101	0.83	SW846 6020	04/26-04/27/04	GEM821AJ
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						
Cadmium									
	228	50.0	285	ug/L	114		SW846 6020	04/26-04/27/04	GEM821AF
	228	50.0	283	ug/L	111	0.55	SW846 6020	04/26-04/27/04	GEM821AG
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						
Thallium									
	2.2	50.0	57.0	ug/L	110		SW846 6020	04/26-04/27/04	GEM821AK
	2.2	50.0	57.7	ug/L	111	1.2	SW846 6020	04/26-04/27/04	GEM821AL
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144							
Bismuth	100	(75 - 125)			SW846 6010B	04/26-04/28/04	GEG2G1AM
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/26-04/28/04	GEG2G1AN

Dilution Factor: 1
Analysis Time..: 12:27
MS Run #.....: 4118049

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D230292 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144									
Bismuth									
	ND	0.500	0.502	mg/L	100		SW846 6010B	04/26-04/28/04	GEG2G1AM
	ND	0.500	0.494	mg/L	99	1.6	SW846 6010B	04/26-04/28/04	GEG2G1AN

Dilution Factor: 1
Analysis Time..: 12:27
MS Run #.....: 4118049

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I4D230292

RECEIVED BY: [signature]

COC NUMBER: 23718

DATE/TIME RECEIVED: 4-22-04 0950

QUOTE/PROFILE: 54827

UNPACKED DATE/TIME: 4-22-04 1100

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: CC

LOG-IN REVIEWED: [signature]

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☑ YES ☐ NO — Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **IR THERMOMETER #:** P4

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

4°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** CC

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

Revised 01/06/04

4.0 CONDITION OF BOTTLES/CONTAINERS **VERIFIED BY:** EL

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☐ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☐ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 5/3/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

No. 23718

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	BILLING INFORMATION
ADDRESS:	BILL TO:
	ADDRESS:
	same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST 6020 (Sb, Cd, Tl)	6010 (Bi)							REMARKS/PRECAUTIONS
	224379-1	4/20/04	16:10	Water	P500	HNO_3		X	X							Attn:
	224379-2	↓	16:25	↓	↓	↓		X	X							Neal Salcher
																AS ARCO pricing
																4° 4-22-04

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Verónica McDonald	4/20/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 09:45	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	4-22-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0930	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/05/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/05/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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5.1

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Encycle RCRA closure

Project Location Encycle Corpus Christi, TX

Laboratory STL

Project Manager Ken Brandner

Sampler(s)/Affiliation Ken Brandner / ARCADIS

224379

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cyanide (1qt. poly w/ NaOH)	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 1-pint poly w/ HNO3)					Remarks	Total
Bin K	L	4/20/04 4:10		1	2					Need low detection limits.	3
Bin H	L	4/20/04 4:25		1	2						3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 6

					Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS	Date 4/20/04	Time 1644		
Received by: [signature]	Organization: STL	Date 04/20/04	Time 1644		Yes No (N/A)
Relinquished by: _____	Organization: _____	Date / /	Time _____		Seal Intact?
Received by: _____	Organization: _____	Date / /	Time _____		Yes No N/A

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus. Invoice to Rich Marcus for RCRA closure. Need low detection limits. Normal turnaround time.

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277165 **Report Date:** 08/23/04
Project ID: Encycle RCRA Closure
Sample Name: Bin H
Sample Matrix: water
Date Received: 08/18/2004 **Time:** 13:40
Date Sampled: 08/18/2004 **Time:** 00:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	08/19/04	3015	---	---	---	---	---
Antimony/ICP	<0.006	mg/L	0.006	<0.006	08/20/04	6010 & 200.7	---	3.22	104.31	98.1	91.15
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	08/20/04	6010 & 200.7	---	2.93	101.16	97.94	85.94
Cadmium/ICP	0.0087	mg/L	0.002	<0.002	08/20/04	6010 & 200.7	---	2.39	99.99	96.3	89.04
Lead/ICP	0.0535	mg/L	0.01	<0.01	08/20/04	6010 & 200.7	---	1.67	95.87	97.9	88.26

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN OF-CUSTODY

WWW.AN. YSYSINC.COM

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Phone: (512) 385-5886 Fax: (512) 385-7411
2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name Encycle RCRA Closure
Address
City State Zip
ATTN:
Phone Fax

Bill to (if different):
Company Name Encycle RCRA Closure
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler: JACOB CLEMENTS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	ANTIMONY, ARSENIC, CADMIUM & LEAD 1 PT POLY W/ HNO3								Comments
BIN H	8-18-04		1		X		277165	1								NEED 5-DAY TURNAROUND
																SEND REPORTS TO
																KEN - BRADNER - ARCADIS RICH MARCUS - ENCYCLE

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T:2.0C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
JACOB CLEMENTS	ARCADIS	8-18-04	13:40	L Flowman	ASI	8-18-04	1340
				[illegible]	ASI	8/19/04	0835

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277169 **Report Date:** 09/09/04
Project ID:
Sample Name: Bin H
Sample Matrix: water
Date Received: 08/18/2004 **Time:** 14:45
Date Sampled: 08/18/2004 **Time:** 14:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	**0.061**	mg/L	0.002	<0.002	09/09/04	6010 & 200.7	---	1.06	88.45	102	92.44
Lead/ICP	**2.94**	mg/L	0.01	<0.01	09/09/04	6010 & 200.7	---	1.27	88.76	102.66	93.7

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN OF-CUSTODY

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2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports To: ENCYCLE → RICH MARCUS
Company Name ARCADIS, G&M → KEN BRADNER
Address
City State Zip
ATTN:
Phone Fax

Bill to (if different):
Company Name ENCYCLE RCRA CLOSURE
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler:

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	~~ANTIMONY~~ ~~ARSENIC~~ ~~CADMIUM~~ ~~CHROMIUM~~ ~~LEAD~~ 1 PT PRY W/ HNO3 MH								Comments MH
BIN H	8-18-04	14:30	1		X		277169	X	analyze per marcus							HOLD PENDING
																RESULTS FROM
																KEN BRADNER
																RESULTS TO
																KEN BRADNER - ARCADIS
																RICH MARCUS - ENCYCLE

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 2.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
JACOB CLEMENTS	ARCADIS	8-18-04	14:45	T. Escamilla	ASI	8-18-04	1445
				[illegible]	ASI	8/19/04	0835

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277209 **Report Date:** 09/09/04
Project ID: Encycle RCRA Closure
Sample Name: Bin H
Sample Matrix: water
Date Received: 08/19/2004 **Time:** 12:15
Date Sampled: 08/19/2004 **Time:** 12:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0101**	mg/L	0.002	<0.002	09/09/04	6010 & 200.7	---	1.06	88.45	102	92.44
Lead/ICP	**0.0906**	mg/L	0.01	<0.01	09/09/04	6010 & 200.7	---	1.27	88.76	102.66	93.7

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Respectfully Submitted,

D Wagner

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name ENCYCLE RCRA CLOSURE

Project Location CORPUS CHRISTI, TX

Laboratory ANALYSIS

Project Manager K. BRADNER

Sampler(s)/Affiliation J CLEMENTS / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANTIMONY, ARSENIC, CADMIUM, LEAD (TOTAL) 1 PT POLY W/ HNO_3						Remarks	Total
BIN H	L	8-19-04 1205	277209	1	HOLD					HOLD / DO NOT ANALYZE, PENDING NOTIFICATION FROM K. BRADNER	1
						analyze per R. Marcus					

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 1

Relinquished by: JACOB CLEMENTS	Organization: ARCADIS	Date 8/19/04	Time 12:15	Seal Intact?
Received by: M. Well	Organization: ASI	Date 8/19/04	Time 1215	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by: [signature]	Organization: ASI	Date 8/20/04	Time 0830	Yes No N/A

Special Instructions/Remarks: NEED 5 DAY TURNAROUND. RESULTS TO K BRADNER (ARCADIS) & R. MARCUS (ENCYCLE) → BILL TO R MARCUS T: 2.0°C

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 277235 **Report Date:** 09/09/04
Project ID: Encycle RCRA Closure
Sample Name: Bin H
Sample Matrix: water
Date Received: 08/19/2004 **Time:** 16:45
Date Sampled: 08/19/2004 **Time:** 16:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/08/04	3015	---	---	---	---	---
Cadmium/ICP	0.0079	mg/L	0.002	<0.002	09/09/04	6010 & 200.7	---	1.06	88.45	102	92.44
Lead/ICP	0.0874	mg/L	0.01	<0.01	09/09/04	6010 & 200.7	---	1.27	88.76	102.66	93.7

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page __ of 1

Project Number/Name: ENCYCLE RCRA CLOSURE

Project Location: C.C., TX

Laboratory: ANALYSIS

Project Manager: KEN BRADNER

Sampler(s)/Affiliation: J. CLEMENTS / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TOTAL ANTIMONY ARSENIC CADMIUM LEAD MH 1 PT PAY W/ HNO3						Remarks MK	Total
BIN H 277235	L	8-19-04 1430		1			HOLD			ALLEED 5 DAY	1
						analyze per R. Marcus				TURNAROUND.	
										HOLD PENDING	
										NOTIFICATION FROM	
										K. BRADNER	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: J. CLEMENTS	Organization: ARCADIS	Date 8/19/04	Time 1645	Seal Intact?
Received by: L. Plowman	Organization: ASI	Date 8/19/04	Time 1645	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by: [signature]	Organization: ASI	Date 8/20/04	Time 0830	Yes No N/A

Special Instructions/Remarks:

RESULTS TO K. BRADNER (ARCADIS) & R. MARCUS (ENCYCLE T: 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278100 **Report Date:** 09/23/04
Project ID:
Sample Name: Bin H
Sample Matrix: water
Date Received: 09/21/2004 **Time:** 12:50
Date Sampled: 09/21/2004 **Time:** 12:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/22/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/23/04	6010 & 200.7	---	2.42	99.83	103.6	95.84
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/23/04	6010 & 200.7	---	1.31	95.91	102.58	96.72

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Respectfully Submitted,

Dale Wagner

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CHAIN-OF-CUSTODY www.analysysinc.com

AnalySys Inc.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name: ARCADIS / ENCYCLE
Address: 711 N. CARANCAHUA
City: CC State: TX Zip: 78475
ATTN: KEN BRADNER / RICH MARCUS
Phone: 8831353 Fax: 883 7565
Project Name/PO#: _____ Sampler: J. CLEMENTS

Bill To (if different):
Company Name: ENCYCLE RCRA CLOSURE
Address: _____
City: _____ State: _____ Zip: _____
ATTN: RICH MARCUS
Phone: _____ Fax: _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: Total Cd & Pb											RUSH TAT (Pre-Scheduled)	Standard TAT
BIN H	9-21-04	1245	1	X		278100	X	X											X												

Special Instructions (such as special QC requirements, lists, methods, etc…)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	9-21-04	1250	[signature]	ASI	9-21-04	1250
				[signature]	ASI	9/22/04	0825

YES ✓
NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 275004 **Report Date:** 06/15/04
Project ID: Encycle RCRA Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 06/07/2004 **Time:** 16:15
Date Sampled: 06/07/2004 **Time:** 03:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/08/04	3015	---	---	---	---	---
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	06/12/04	6010 & 200.7	J	0.71	99.67	98.92	81.78
Cadmium/GFAA	0.0142	mg/L	0.006	<0.006	06/11/04	7131 & 213.2	---	3.79	90.72	101	98.2
Lead/ICP	0.156	mg/L	0.01	<0.01	06/12/04	6010 & 200.7	---	0.59	94.99	99.3	78.08

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 275004 **Matrix:** water
Client: Arcadis Geraghty & Miller, Inc. **Attn:** Ken Brandner
Project ID: Encycle RCRA Closure
Sample Name: Bin K

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.

Notes: _____

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total As, Cd, Pb Cl pts poly w/ HNO3						Remarks	Total
Bin K 275004	L	6/7/04 3:40								Need low detection limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: Alvin E. Garcia	Organization: ARCADIS	Date 06/07/2004	Time 16:15	Seal Intact? Yes No N/A
Received by: L Plowman	Organization: ASI	Date 6/7/04	Time 1615	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by: G Flynn	Organization: ASI	Date 6/8/04	Time 0840	

Special Instructions/Remarks: Need 5 day turnaround. Results to Ken Brandner & Rich Marcus. Invoice to Rich Marcus for RCRA Closure T: 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 275019 **Report Date:** 06/17/04
Project ID: Encycle RCRA Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 06/08/2004 **Time:** 12:12
Date Sampled: 06/08/2004 **Time:** 11:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	06/15/04	3015	---	---	---	---	---
Cadmium/GFAA	0.0103	mg/L	0.001	<0.001	06/16/04	7131 & 213.2	---	2.33	91.62	105	100.4
Lead/ICP	0.0804	mg/L	0.01	<0.01	06/16/04	6010 & 200.7	---	1.73	96.5	97.78	82.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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ARCADIS

Laboratory Task Order No./P.O. No _____

CHAIN-OF-CUSTODY RECORD

Page _____ of 1

Project Number/Name Encycle RCRA Closure

Project Location Corpus Christi, TX

Laboratory Analysys, Inc.

Project Manager K. Beardsley

Sampler(s)/Affiliation A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Total Arsenic, Cadmium, Lead 1 pt. Poly w/ HNO_3						Remarks	Total
Bin K 275019	L	06-08-2004 11:20		1	—	HOLD Analyte per PM				Require Low Detection Limits. Hold / Do not analyze Pending Notification from P.M.	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers

Relinquished by: Adrian E. Garcia	Organization: ARCADIS	Date 06/08/2004	Time 12:12	Seal Intact?		
Received by: L. Hayman	Organization: ASI	Date 6/8/04	Time 12:12	Yes	No	N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?		
Received by: D. Flynn	Organization: ASI	Date 6/9/04	Time 0840	Yes	No	N/A

Special Instructions/Remarks:

Note: 5-Day Turnaround. Results to K. Beardsley (ARCADIS) and R. Marcus (Encycle). T: 2.0°C

Direct Bill to R. Marcus (Encycle) for RCRA Closure.

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 275160 **Report Date:** 06/23/04
Project ID: Encycle RCRA Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 06/14/2004 **Time:** 16:45
Date Sampled: 06/14/2004 **Time:** 14:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/22/04	3015	---	---	---	---	---
Cadmium/ICP	0.0073	mg/L	0.002	<0.002	06/22/04	6010 & 200.7	---	2.25	96.57	98.2	96.17
Lead/ICP	0.0498	mg/L	0.01	<0.01	06/22/04	6010 & 200.7	---	1.06	93.45	97.28	96.86

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Richard Elton

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name ENCYCLE RCRA CLOSURE

Project Location CORPUS CHRISTI, TX

Laboratory ANALYSYS, INC

Project Manager K. BRADNER

Sampler(s)/Affiliation J CLEMENTS / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: TOTAL ARSENIC, CADMIUM, LEAD 1 PT. POLY W/ HNO3						Remarks	Total
BIN # 275160	L	6/14/04 2:30		1				HOLD		REQUIRE LOW DETECTION LIMITS HOLD / DO NOT ANALYZE PENDING NOTIFICATION FROM P.M.	1

Analyzed R. Marcus

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

Relinquished by: J. Clements	Organization: ARCADIS	Date 6/14/04	Time 7:45	Seal Intact?	
Received by: [illegible]	Organization: ASI	Date 6/14/04	Time 1645	Yes No (N/A)	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by: D. Flippin	Organization: ASI	Date 6/15/04	Time 0840	Yes No N/A	

Special Instructions/Remarks:

NOTE: 5 DAY TURNAROUND. RESULTS TO K. BRADNER (ARCADIS) & R. MARCUS (ENCYCLE).

DIRECT BILL TO R. MARCUS (ENCYCLE) FOR RCRA CLOSURE.

T: 2.5 C

Delivery Method: ■ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 276114 **Report Date:** 07/20/04
Project ID: Encycle RCRA Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 07/14/2004 **Time:** 15:25
Date Sampled: 07/14/2004 **Time:** 15:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	07/16/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0021**	mg/L	0.002	<0.002	07/19/04	6010 & 200.7	---	2.89	98.28	104.2	96.05
Lead/ICP	**0.0258**	mg/L	0.01	<0.01	07/19/04	6010 & 200.7	---	2.85	95.82	104.8	98.62

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Respectfully Submitted,

Richard Elton

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name ENOCHLE RCRA CLOSURE

Project Location CORPUS CHRISTI, TX

Laboratory ANALYSIS

Project Manager BEN BRANNER

Sampler(s)/Affiliation JACOB CLEMENTS / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: TOTAL CHROMIUM (Cr) & LEAD (Pb) (1PT POLY. W/ HNO3)						Remarks	Total
BANKS 276114	L	7/14/04 15:10		1						NEED LOW DETECTION LIMITS	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

					Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS	Date 7/14/04	Time 15:25		
Received by: T. Esquivel	Organization: ASI	Date 7/14/04	Time 1525		Yes No (N/A)
Relinquished by: _____	Organization: _____	Date / /	Time _____		Seal Intact?
Received by: E. [signature]	Organization: ASI.	Date 7/15/04	Time 08:55		Yes No N/A

Special Instructions/Remarks: _____

T: 20 C

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 276138 **Report Date:** 07/26/04
Project ID: Encycle RCRA Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 07/15/2004 **Time:** 14:25
Date Sampled: 07/15/2004 **Time:** 13:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	07/22/04	3015	---	---	---	---	---
Lead/ICP	0.0162	mg/L	0.01	<0.01	07/24/04	6010 & 200.7	---	0.65	95.4	102.12	99.32

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page ___ of ___

Project Number/Name Encycle KCRA Closure

Project Location Corpus Christi, Texas

Laboratory Analysys, Inc.

Project Manager Ken Brandner

Sampler(s)/Affiliation Orlando Gonzalez / Arcadis

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Cadmium (ca) and Lead (Pb)						Remarks	Total
BIN K 276138	L	7-15-04 1:30		1		~~Hold~~ analyze per R.M 7/20/04				Need low detection Limits Hold → Do Not Analyze Pending Notification from P.M.	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: [signature]	Organization: Arcadis	Date 7/15/04	Time 14:25	Seal Intact?	
Received by: L Flowman	Organization: ASI	Date 7/15/04	Time 1425	Yes No N/A	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by: L Flynn	Organization: ASI	Date 7/16/04	Time 1235	Yes No N/A	

Special Instructions/Remarks:

~~Re~~ Hold T: 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278244 **Report Date:** 09/29/04
Project ID: Encycle RCRA Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 09/27/2004 **Time:** 12:30
Date Sampled: 09/27/2004 **Time:** 12:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/28/04	3015	---	---	---	---	---
Lead/ICP	0.267	mg/L	0.01	<0.01	09/28/04	6010 & 200.7	---	0.87	92.84	97.58	90.77

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Respectfully Submitted,

Dale Wagner

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CHAIN-OF-CUSTODY

www.analysysinc.com

ANALYSYS INC.
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2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name: ARCADIS / ENVIRITE
Address: 711 N. CARANCAHUA
City: CC State: TX Zip: 78475
ATTN: BEN BRADNER / RICK MARLIN
Phone: 883/1353 Fax: 883 7565

Bill To (if different):
Company Name: ENVIRITE RPA CLIENT
Address:
City: State: Zip:
ATTN: RICK MARLIN
Phone: Fax:

Project Name/PO#: Sampler: J. CLEMENTS

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL LOAD										RUSH TAT (Pre-Scheduled)	Standard TAT
BANKS	9-27-04	1215	1	X		278244	X	X											X											

Special Instructions (such as special QC requirements, lists, methods, etc...): NEED 3 DAY TURNAROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0 °C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
J. CLEMENTS	ARCADIS	9-27-04	1220	M. Wilt	ASI	9/27/04	1230	NO	
				D. Flynn	ASI	9/28/04	0845		

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278387 **Report Date:** 10/04/04
Project ID: Encycle Closure
Sample Name: Bin K
Sample Matrix: water
Date Received: 09/30/2004 **Time:** 16:20
Date Sampled: 09/30/2004 **Time:** 16:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	10/01/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	10/01/04	6010 & 200.7	---	0.72	91.6	98.38	96.94

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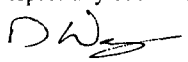
Respectfully Submitted,



Dale Wagner

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Send Reports To:
Company Name Arcadis
Address 711 W. Caroncahua
City CC State TX Zip 78475
ATTN: Ken Brandner
Phone 361 883 1353 Fax 361 883 7565
Project Name/PO# Encycle Textron Sampler

Bill To (if different):
Company Name Encycle
Address
City State Zip
ATTN: Rick Marcus
Phone 361 289 6526 Fax

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: Total Lead	RUSH TAT (Pre-Scheduled)	Standard TAT
Bin K	9-30-04	16:10	1	X		278387	X	X						X					X	X	

Special Instructions (such as special QC requirements, lists, methods, etc...)

3 Day TAT

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C) T = 2.0°C

Sample Relinquished By				Sample Received By						
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓	
	Arcadis	9-30-04	16:20		ASI	9/30/04	16:20	NO		
					ASI	10/1/04	0825			

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

RECEIVED
MAY 10 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224365

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/05/2004

Olga Verónica McDonald
Signature

5/5/04
Date

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 43

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/05/2004

Job Number.: 224365
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224365-1	BIN L	Water	04/19/2004	15:55	04/19/2004	16:33
224365-2	FIELD BLANK	Water	04/19/2004	16:05	04/19/2004	16:33

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224365 Date: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN L
Date Sampled.....: 04/19/2004
Time Sampled.....: 15:55
Sample Matrix.....: Water

Laboratory Sample ID: 224365-1
Date Received.....: 04/19/2004
Time Received.....: 16:33

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/22/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/20/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	04/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Cobalt (Co), Total	0.03	0.01	mg/L	04/21/04	jem
SW-846 6010B	Copper (Cu), Total	0.26	0.01	mg/L	04/21/04	jem
SW-846 6010B	Lead (Pb), Total	0.56	0.01	mg/L	04/21/04	jem
SW-846 6010B	Manganese (Mn), Total	0.06	0.01	mg/L	04/21/04	jem
SW-846 6010B	Nickel (Ni), Total	0.15	0.01	mg/L	04/21/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Zinc (Zn), Total	2.55	0.01	mg/L	04/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/20/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224365 Date: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: FIELD BLANK
Date Sampled.....: 04/19/2004
Time Sampled.....: 16:05
Sample Matrix.....: Water

Laboratory Sample ID: 224365-2
Date Received.....: 04/19/2004
Time Received.....: 16:33

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/22/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/20/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Barium (Ba), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Copper (Cu), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Lead (Pb), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Manganese (Mn), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Nickel (Ni), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Zinc (Zn), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/20/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92848 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042204HG	0.00468		0.00500		93.6	%	90-110	04/22/2004	1535
ICB			0.000050							04/22/2004	1539
LCS		M042204LG	0.00476		0.0050		95.2	%	85-115	04/22/2004	1542
MB			-0.000076							04/22/2004	1544
MS	224392-1	M042204HG	0.00520		0.00500	0.000414	95.7	%	75-125	04/22/2004	1550
MSD	224392-1	M042204HG	0.00519	0.00520	0.00500	0.000414	95.5	%	75-125	04/22/2004	1552
							0.2	R	20		
CCV		M042204HG	0.00489		0.00500		97.8	%	80-120	04/22/2004	1609
CCB			0.000156							04/22/2004	1611
CCV		M042204HG	0.00471		0.00500		94.2	%	80-120	04/22/2004	1635
CCB			0.000321							04/22/2004	1639

Test Method.....: EPA 335.3 Batch.....: 92716 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		042004	-0.0016							04/20/2004	1530
CCV		CN40420E	0.4181		0.4000		104.5	%	90-110	04/20/2004	1534
MB		042004	0.0015							04/20/2004	1538
LCS		CN40420P	0.0420		0.05000		84.0	%	69-112	04/20/2004	1543
LCS		CN40420Q	0.0841		0.1000		84.1	%	69-112	04/20/2004	1547
LCS		CN40420R	0.1624		0.2000		81.2	%	69-112	04/20/2004	1551
MS	224323-1	CN40420S	0.0555		0.05000	-0.0015	114.0	%	75-125	04/20/2004	1604
MSD	224323-1	CN40420S	0.0586	0.0555	0.05000	-0.0015	120.2	%	75-125	04/20/2004	1608
							5.4	R	20		
CCB		042004	-0.0001							04/20/2004	1633
CCV		CN40420E	0.4100		0.4000		102.5	%	90-110	04/20/2004	1637

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98682194		2.00		99.3	%	90-110	04/21/2004	1202
ICV		M0368	0.96282794		1.00		96.3	%	90-110	04/21/2004	1217
ICV		M0380	0.96441851		1.00		96.4	%	90-110	04/21/2004	1233
ICB			-0.0043145							04/21/2004	1250
CCB			-0.0026946							04/21/2004	1302
ICB			-0.0031249							04/21/2004	1305
CCV		M0379	0.99652252		1.00		99.7	%	90-110	04/21/2004	1314
CCB			-0.0055443							04/21/2004	1327
MB		3010	-0.0072995							04/21/2004	1331
LCS		M351	0.51078999		0.500		102.2	%	85-110	04/21/2004	1337
MS	224368-1	M351	0.55419534		0.500	0.01936286	107.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.54505749	0.55419534	0.500	0.01936286	105.1	%	75-125	04/21/2004	1356
							1.7	R	20		
CCV		M0388	0.99977030		1.00		100.0	%	90-110	04/21/2004	1412
CCB			-0.0034037							04/21/2004	1426

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0037158							04/21/2004	1445
CCV		M0388	0.98860619		1.00		98.9	%	90-110	04/21/2004	1521
CCB			-0.0029723							04/21/2004	1535
MB		3050	-0.0059921							04/21/2004	1538
LCS		M351	0.50559780		0.500		101.1	%	82-110	04/21/2004	1545
SB		M383D	2.24535567		2.31		97.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.50588736		0.500	0.02993989	95.2	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50298047	0.50588736	0.500	0.02993989	94.6	%	75-125	04/21/2004	1612
							0.6	R	20		
CCV		M0388	1.00958398		1.00		101.0	%	90-110	04/21/2004	1621
CCB			-0.0034159							04/21/2004	1632
MB		3010	0.00221022							04/21/2004	1635
LCS		M351	0.48585761		0.500		97.2	%	85-110	04/21/2004	1639
MS	224341-4	M351	0.52661415		0.500	0.00293508	104.7	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.52488059	0.52661415	0.500	0.00293508	104.4	%	75-125	04/21/2004	1653
							0.3	R	20		
CCV		M0388	0.96601029		1.00		96.6	%	90-110	04/21/2004	1717
CCB			-0.0047306							04/21/2004	1730
MB		3050	-0.0039584							04/21/2004	1751
LCS		M351	0.50407557		0.500		100.8	%	85-110	04/21/2004	1757
CCV		M0388	0.99169483		1.00		99.2	%	90-110	04/21/2004	1811
CCB			-0.0045971							04/21/2004	1825
MS	224358-9	M351	0.52572204		0.500	0.01096506	103.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.52044010	0.52572204	0.500	0.01096506	101.9	%	75-125	04/21/2004	1840
							1.0	R	20		
MB		3010	-0.0041382							04/21/2004	1904
CCV		M0388	0.98898259		1.00		98.9	%	90-110	04/21/2004	1907
CCB			-0.0043333							04/21/2004	1919
CCV		M0388	0.99021080		1.00		99.0	%	90-110	04/21/2004	2001
CCB			-0.0030498							04/21/2004	2015
CCV		M0388	0.98724345		1.00		98.7	%	90-110	04/21/2004	2051
CCB			-0.0011951							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99867639		2.00		99.9	%	90-110	04/21/2004	1202
ICV		M0369	0.97094086		1.00		97.1	%	90-110	04/21/2004	1222
ICB			-0.0029037							04/21/2004	1250
CCB			-0.0028426							04/21/2004	1302
ICB			-0.0028814							04/21/2004	1305
CCV		M0379	1.01243604		1.00		101.2	%	90-110	04/21/2004	1314
CCB			-0.0030621							04/21/2004	1327
MB		3010	-0.0031161							04/21/2004	1331
LCS		M351	0.51908266		0.500		103.8	%	90-110	04/21/2004	1337
MS	224368-1	M351	1.33162816		0.500	0.88112040	90.1	%	75-125	04/21/2004	1351
MSD	224368-1	M351	1.32780978	1.33162816	0.500	0.88112040	89.3	%	75-125	04/21/2004	1356
							0.3	R	20		
CCV		M0388	1.00868794		1.00		100.9	%	90-110	04/21/2004	1412

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0028905							04/21/2004	1426
CCB			-0.0028545							04/21/2004	1445
CCV		M0388	0.99225959		1.00		99.2	%	90-110	04/21/2004	1521
CCB			-0.0029637							04/21/2004	1535
MB		3050	-0.0030322							04/21/2004	1538
LCS		M351	0.50580831		0.500		101.2	%	89-110	04/21/2004	1545
SB		M383D	8.98538216		10.00		89.9	%	80-120	04/21/2004	1550
CCV		M0388	1.00870435		1.00		100.9	%	90-110	04/21/2004	1621
CCB			-0.0028469							04/21/2004	1632
MB		3010	-0.0021743							04/21/2004	1635
LCS		M351	0.48895480		0.500		97.8	%	90-110	04/21/2004	1639
MS	224341-4	M351	1.68258005		0.500	1.20084476	96.3	%	75-125	04/21/2004	1647
MSD	224341-4	M351	1.66892327	1.68258005	0.500	1.20084476	93.6	%	75-125	04/21/2004	1653
							0.8	R	20		
CCV		M0388	0.99352492		1.00		99.4	%	90-110	04/21/2004	1717
CCB			-0.0028806							04/21/2004	1730
MB		3050	-0.0029162							04/21/2004	1751
LCS		M351	0.51465049		0.500		102.9	%	90-110	04/21/2004	1757
CCV		M0388	1.00046762		1.00		100.0	%	90-110	04/21/2004	1811
CCB			-0.0030143							04/21/2004	1825
MS	224358-9	M351	0.66083953		0.500	0.12323086	107.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.64789245	0.66083953	0.500	0.12323086	104.9	%	75-125	04/21/2004	1840
							2.0	R	20		
MB		3010	-0.0028417							04/21/2004	1904
CCV		M0388	0.98387047		1.00		98.4	%	90-110	04/21/2004	1907
CCB			-0.0030050							04/21/2004	1919
CCV		M0388	0.98424266		1.00		98.4	%	90-110	04/21/2004	2001
CCB			-0.0029379							04/21/2004	2015
CCV		M0388	0.97390143		1.00		97.4	%	90-110	04/21/2004	2051
CCB			-0.0028471							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00206161		2.00		100.1	%	90-110	04/21/2004	1202
ICV		M0368	0.97008424		1.00		97.0	%	90-110	04/21/2004	1217
ICV		M0380	0.97635344		1.00		97.6	%	90-110	04/21/2004	1233
ICB			-0.0025280							04/21/2004	1250
CCB			-0.0028923							04/21/2004	1302
ICB			-0.0029491							04/21/2004	1305
CCV		M0379	1.01021987		1.00		101.0	%	90-110	04/21/2004	1314
CCB			-0.0025002							04/21/2004	1327
MB		3010	-0.0026280							04/21/2004	1331
LCS		M351	0.51576853		0.500		103.2	%	90-110	04/21/2004	1337
MS	224368-1	M351	0.48455881		0.500	0.00001307	96.9	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.48276881	0.48455881	0.500	0.00001307	96.6	%	75-125	04/21/2004	1356
							0.4	R	20		
CCV		M0388	1.00412533		1.00		100.4	%	90-110	04/21/2004	1412
CCB			-0.0030430							04/21/2004	1426

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0028665							04/21/2004	1445
CCV		M0388	0.98700008		1.00		98.7	%	90-110	04/21/2004	1521
CCB			-0.0023809							04/21/2004	1535
MB		3050	-0.0031665							04/21/2004	1538
LCS		M351	0.50004859		0.500		100.0	%	89-110	04/21/2004	1545
SB		M383D	1.92898265		2.07		93.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.56665323		0.500	0.08133142	97.1	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.56735565	0.56665323	0.500	0.08133142	97.2	%	75-125	04/21/2004	1612
							0.1	R	20		
CCV		M0388	1.00672308		1.00		100.7	%	90-110	04/21/2004	1621
CCB			-0.0030899							04/21/2004	1632
MB		3010	-0.0034035							04/21/2004	1635
LCS		M351	0.48694222		0.500		97.4	%	90-110	04/21/2004	1639
MS	224341-4	M351	0.52079477		0.500	0.03169071	97.8	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.52385486	0.52079477	0.500	0.03169071	98.4	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	0.99878277		1.00		99.9	%	90-110	04/21/2004	1717
CCB			-0.0037539							04/21/2004	1730
MB		3050	-0.0030662							04/21/2004	1751
LCS		M351	0.50912781		0.500		101.8	%	90-110	04/21/2004	1757
CCV		M0388	1.00072309		1.00		100.1	%	90-110	04/21/2004	1811
CCB			-0.0026589							04/21/2004	1825
MS	224358-9	M351	0.58941431		0.500	0.06153031	105.6	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.58258070	0.58941431	0.500	0.06153031	104.2	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0032603							04/21/2004	1904
CCV		M0388	0.98656964		1.00		98.7	%	90-110	04/21/2004	1907
CCB			-0.0028473							04/21/2004	1919
CCV		M0388	0.98414166		1.00		98.4	%	90-110	04/21/2004	2001
CCB			-0.0028815							04/21/2004	2015
CCV		M0388	0.97025569		1.00		97.0	%	90-110	04/21/2004	2051
CCB			-0.0029403							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00774758		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.98776784		1.00		98.8	%	90-110	04/21/2004	1217
ICV		M0380	1.02707696		1.00		102.7	%	90-110	04/21/2004	1233
ICB			-0.0033882							04/21/2004	1250
CCB			-0.0028228							04/21/2004	1302
ICB			-0.0028928							04/21/2004	1305
CCV		M0379	1.01353258		1.00		101.4	%	90-110	04/21/2004	1314
CCB			-0.0027345							04/21/2004	1327
MB		3010	-0.0032059							04/21/2004	1331
LCS		M351	0.51708599		0.500		103.4	%	90-110	04/21/2004	1337
MS	224368-1	M351	0.46766520		0.500	-0.0012401	93.8	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.46004736	0.46766520	0.500	-0.0012401	92.3	%	75-125	04/21/2004	1356
							1.6	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.01801782		1.00		101.8	%	90-110	04/21/2004	1412
CCB			-0.0030417							04/21/2004	1426
CCB			-0.0031439							04/21/2004	1445
CCV		M0388	1.00223148		1.00		100.2	%	90-110	04/21/2004	1521
CCB			-0.0031534							04/21/2004	1535
MB		3050	-0.0032516							04/21/2004	1538
LCS		M351	0.51282839		0.500		102.6	%	90-110	04/21/2004	1545
SB		M383D	1.99903773		2.10		95.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.47787617		0.500	0.03861881	87.9	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.47758248	0.47787617	0.500	0.03861881	87.8	%	75-125	04/21/2004	1612
							0.1	R	20		
CCV		M0388	1.02503383		1.00		102.5	%	90-110	04/21/2004	1621
CCB			-0.0028050							04/21/2004	1632
MB		3010	-0.0027467							04/21/2004	1635
LCS		M351	0.49553908		0.500		99.1	%	90-110	04/21/2004	1639
MS	224341-4	M351	0.46606526		0.500	-0.0028026	93.8	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.46790647	0.46606526	0.500	-0.0028026	94.1	%	75-125	04/21/2004	1653
							0.4	R	20		
CCV		M0388	1.01843418		1.00		101.8	%	90-110	04/21/2004	1717
CCB			-0.0030043							04/21/2004	1730
MB		3050	-0.0030011							04/21/2004	1751
LCS		M351	0.51336530		0.500		102.7	%	90-110	04/21/2004	1757
CCV		M0388	1.01287560		1.00		101.3	%	90-110	04/21/2004	1811
CCB			-0.0033174							04/21/2004	1825
MS	224358-9	M351	0.52300134		0.500	0.01294821	102.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.51715899	0.52300134	0.500	0.01294821	100.8	%	75-125	04/21/2004	1840
							1.1	R	20		
MB		3010	-0.0033594							04/21/2004	1904
CCV		M0388	0.99675091		1.00		99.7	%	90-110	04/21/2004	1907
CCB			-0.0031636							04/21/2004	1919
CCV		M0388	0.99493461		1.00		99.5	%	90-110	04/21/2004	2001
CCB			-0.0030964							04/21/2004	2015
CCV		M0388	0.98886171		1.00		98.9	%	90-110	04/21/2004	2051
CCB			-0.0032256							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00979906		2.00		100.5	%	90-110	04/21/2004	1202
ICV		M0368	1.01890077		1.00		101.9	%	90-110	04/21/2004	1217
ICV		M0380	1.03516736		1.00		103.5	%	90-110	04/21/2004	1233
ICB			-0.0038469							04/21/2004	1250
CCB			-0.0039742							04/21/2004	1302
ICB			-0.0043485							04/21/2004	1305
CCV		M0379	1.04200005		1.00		104.2	%	90-110	04/21/2004	1314
CCB			-0.0042320							04/21/2004	1327
MB		3010	-0.0043206							04/21/2004	1331
LCS		M351	0.54894621		0.500		109.8	%	89-112	04/21/2004	1337
MS	224368-1	M351	0.57047248		0.500	0.02504835	109.1	%	75-125	04/21/2004	1351

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224368-1	M351	0.56771792	0.57047248	0.500	0.02504835	108.5	%	75-125	04/21/2004	1356
							0.5	R	20		
CCV		M0388	1.05235814		1.00		105.2	%	90-110	04/21/2004	1412
CCB			-0.0012687							04/21/2004	1426
CCB			-0.0025610							04/21/2004	1445
CCV		M0388	1.02422860		1.00		102.4	%	90-110	04/21/2004	1521
CCB			-0.0052329							04/21/2004	1535
MB		3050	-0.0049815							04/21/2004	1538
LCS		M351	0.56148134		0.500		112.3	%	83-119	04/21/2004	1545
SB		M383D	0.87393654		0.85		102.8	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.56414752		0.500	0.06012872	100.8	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.56689617	0.56414752	0.500	0.06012872	101.4	%	75-125	04/21/2004	1612
							0.5	R	20		
CCV		M0388	1.05173319		1.00		105.2	%	90-110	04/21/2004	1621
CCB			-0.0053850							04/21/2004	1632
MB		3010	-0.0055770							04/21/2004	1635
LCS		M351	0.51464634		0.500		102.9	%	89-112	04/21/2004	1639
MS	224341-4	M351	0.55970562		0.500	0.01707925	108.5	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.56247678	0.55970562	0.500	0.01707925	109.1	%	75-125	04/21/2004	1653
							0.5	R	20		
CCV		M0388	1.07442592		1.00		107.4	%	90-110	04/21/2004	1717
CCB			-0.0076806							04/21/2004	1730
MB		3050	-0.0073884							04/21/2004	1751
LCS		M351	0.55528181		0.500		111.1	%	89-112	04/21/2004	1757
CCV		M0388	1.05460460		1.00		105.5	%	90-110	04/21/2004	1811
CCB			-0.0072313							04/21/2004	1825
MS	224358-9	M351	0.65565918		0.500	0.06634480	117.9	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.64494725	0.65565918	0.500	0.06634480	115.7	%	75-125	04/21/2004	1840
							1.6	R	20		
MB		3010	-0.0055292							04/21/2004	1904
CCV		M0388	1.03423098		1.00		103.4	%	90-110	04/21/2004	1907
CCB			-0.0060915							04/21/2004	1919
CCV		M0388	1.05214653		1.00		105.2	%	90-110	04/21/2004	2001
CCB			-0.0074911							04/21/2004	2015
CCV		M0388	1.04142408		1.00		104.1	%	90-110	04/21/2004	2051
CCB			-0.0078002							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00168952		2.00		100.1	%	90-110	04/21/2004	1202
ICV		M0368	1.00594144		1.00		100.6	%	90-110	04/21/2004	1217
ICV		M0380	1.00334114		1.00		100.3	%	90-110	04/21/2004	1233
ICB			-0.0027467							04/21/2004	1250
CCB			-0.0022444							04/21/2004	1302
ICB			-0.0036068							04/21/2004	1305
CCV		M0379	1.01092704		1.00		101.1	%	90-110	04/21/2004	1314
CCB			-0.0021854							04/21/2004	1327
MB		3010	-0.0037823							04/21/2004	1331

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M351	0.51588725		0.500		103.2	%	87-112	04/21/2004	1337
MS	224368-1	M351	0.91726900		0.500	0.46706968	90.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.91028261	0.91726900	0.500	0.46706968	88.6	%	75-125	04/21/2004	1356
							0.8	R	20		
CCV		M0388	1.01480849		1.00		101.5	%	90-110	04/21/2004	1412
CCB			-0.0020732							04/21/2004	1426
CCB			-0.0017934							04/21/2004	1445
CCV		M0388	0.99311075		1.00		99.3	%	90-110	04/21/2004	1521
CCB			-0.0030253							04/21/2004	1535
MB		3050	-0.0018923							04/21/2004	1538
LCS		M351	0.51764920		0.500		103.5	%	86-110	04/21/2004	1545
SB		M383D	1.84454417		2.04		90.4	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.51350672		0.500	0.06803660	89.1	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50755590	0.51350672	0.500	0.06803660	87.9	%	75-125	04/21/2004	1612
							1.2	R	20		
CCV		M0388	0.99676523		1.00		99.7	%	90-110	04/21/2004	1621
CCB			-0.0024241							04/21/2004	1632
MB		3010	-0.0025587							04/21/2004	1635
LCS		M351	0.48653595		0.500		97.3	%	87-112	04/21/2004	1639
MS	224341-4	M351	0.47840595		0.500	0.01807910	92.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.48099242	0.47840595	0.500	0.01807910	92.6	%	75-125	04/21/2004	1653
							0.5	R	20		
CCV		M0388	0.98943828		1.00		98.9	%	90-110	04/21/2004	1717
CCB			-0.0028843							04/21/2004	1730
MB		3050	-0.0041127							04/21/2004	1751
LCS		M351	0.51279230		0.500		102.6	%	87-112	04/21/2004	1757
CCV		M0388	0.99650913		1.00		99.7	%	90-110	04/21/2004	1811
CCB			-0.0015159							04/21/2004	1825
MS	224358-9	M351	0.54652644		0.500	0.03920437	101.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.53937814	0.54652644	0.500	0.03920437	100.0	%	75-125	04/21/2004	1840
							1.3	R	20		
MB		3010	-0.0001724							04/21/2004	1904
CCV		M0388	0.97321258		1.00		97.3	%	90-110	04/21/2004	1907
CCB			-0.0015702							04/21/2004	1919
CCV		M0388	0.97709305		1.00		97.7	%	90-110	04/21/2004	2001
CCB			-0.0041845							04/21/2004	2015
CCV		M0388	0.97612759		1.00		97.6	%	90-110	04/21/2004	2051
CCB			-0.0024346							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99508405		2.00		99.8	%	90-110	04/21/2004	1202
ICV		M0368	0.98926333		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	0.95701559		1.00		95.7	%	90-110	04/21/2004	1233
ICB			-0.0031304							04/21/2004	1250
CCB			-0.0033410							04/21/2004	1302
ICB			-0.0033173							04/21/2004	1305
CCV		M0379	1.00612784		1.00		100.6	%	90-110	04/21/2004	1314

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0032272							04/21/2004	1327
MB		3010	-0.0032886							04/21/2004	1331
LCS		M351	0.51495568		0.500		103.0	%	88-110	04/21/2004	1337
MS	224368-1	M351	1.82511218		0.500	1.36602576	91.8	%	75-125	04/21/2004	1351
MSD	224368-1	M351	1.79795034	1.82511218	0.500	1.36602576	86.4	%	75-125	04/21/2004	1356
							1.5	R	20		
CCV		M0388	1.00458088		1.00		100.5	%	90-110	04/21/2004	1412
CCB			-0.0031803							04/21/2004	1426
CCB			-0.0030519							04/21/2004	1445
CCV		M0388	0.98589260		1.00		98.6	%	90-110	04/21/2004	1521
CCB			-0.0031247							04/21/2004	1535
MB		3050	-0.0031397							04/21/2004	1538
LCS		M351	0.52260399		0.500		104.5	%	88-110	04/21/2004	1545
SB		M383D	5.27771348		5.68		92.9	%	80-120	04/21/2004	1550
MS	224346-4	M351	2.06111198		0.500	1.66701726	78.8	%	75-125	04/21/2004	1606
MSD	224346-4	M351	2.11723121	2.06111198	0.500	1.66701726	90.0	%	75-125	04/21/2004	1612
							2.7	R	20		
CCV		M0388	1.00419374		1.00		100.4	%	90-110	04/21/2004	1621
CCB			-0.0030011							04/21/2004	1632
MB		3010	-0.0030321							04/21/2004	1635
LCS		M351	0.48776811		0.500		97.6	%	88-110	04/21/2004	1639
MS	224341-4	M351	0.97391567		0.500	0.48964812	96.9	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.96026200	0.97391567	0.500	0.48964812	94.1	%	75-125	04/21/2004	1653
							1.4	R	20		
CCV		M0388	0.99544542		1.00		99.5	%	90-110	04/21/2004	1717
CCB			-0.0029037							04/21/2004	1730
MB		3050	-0.0029811							04/21/2004	1751
LCS		M351	0.53085524		0.500		106.2	%	88-110	04/21/2004	1757
CCV		M0388	0.99631635		1.00		99.6	%	90-110	04/21/2004	1811
CCB			-0.0030472							04/21/2004	1825
MS	224358-9	M351	0.59190575		0.500	0.07460893	103.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.58333378	0.59190575	0.500	0.07460893	101.7	%	75-125	04/21/2004	1840
							1.5	R	20		
MB		3010	-0.0028507							04/21/2004	1904
CCV		M0388	0.99366907		1.00		99.4	%	90-110	04/21/2004	1907
CCB			-0.0030583							04/21/2004	1919
CCV		M0388	0.98284938		1.00		98.3	%	90-110	04/21/2004	2001
CCB			-0.0033478							04/21/2004	2015
CCV		M0388	0.96853671		1.00		96.9	%	90-110	04/21/2004	2051
CCB			-0.0031842							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00063652		2.00		100.0	%	90-110	04/21/2004	1202
ICV		M0368	0.98932728		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	1.00334628		1.00		100.3	%	90-110	04/21/2004	1233
ICB			-0.0034612							04/21/2004	1250
CCB			-0.0026612							04/21/2004	1302

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB			-0.0034226							04/21/2004	1305
CCV		M0379	1.01701475		1.00		101.7	%	90-110	04/21/2004	1314
CCB			-0.0030884							04/21/2004	1327
MB		3010	-0.0032762							04/21/2004	1331
LCS		M351	0.52160979		0.500		104.3	%	90-112	04/21/2004	1337
MS	224368-1	M351	0.48281860		0.500	0.01848639	92.9	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.47641730	0.48281860	0.500	0.01848639	91.6	%	75-125	04/21/2004	1356
							1.3	R	20		
CCV		M0388	1.01567598		1.00		101.6	%	90-110	04/21/2004	1412
CCB			-0.0027367							04/21/2004	1426
CCB			-0.0032287							04/21/2004	1445
CCV		M0388	0.99478573		1.00		99.5	%	90-110	04/21/2004	1521
CCB			-0.0033089							04/21/2004	1535
MB		3050	-0.0028518							04/21/2004	1538
LCS		M351	0.50350019		0.500		100.7	%	89-110	04/21/2004	1545
SB		M383D	1.76553579		1.89		93.4	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.50737458		0.500	0.06388551	88.7	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50627554	0.50737458	0.500	0.06388551	88.5	%	75-125	04/21/2004	1612
							0.2	R	20		
CCV		M0388	1.01194469		1.00		101.2	%	90-110	04/21/2004	1621
CCB			-0.0021951							04/21/2004	1632
MB		3010	-0.0024640							04/21/2004	1635
LCS		M351	0.49409386		0.500		98.8	%	90-112	04/21/2004	1639
MS	224341-4	M351	0.47262722		0.500	0.00698344	93.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.47555765	0.47262722	0.500	0.00698344	93.7	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	1.01218399		1.00		101.2	%	90-110	04/21/2004	1717
CCB			-0.0027875							04/21/2004	1730
MB		3050	-0.0024760							04/21/2004	1751
LCS		M351	0.51757156		0.500		103.5	%	90-112	04/21/2004	1757
CCV		M0388	1.01115293		1.00		101.1	%	90-110	04/21/2004	1811
CCB			-0.0035263							04/21/2004	1825
MS	224358-9	M351	0.55592071		0.500	0.04437544	102.3	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.54925465	0.55592071	0.500	0.04437544	101.0	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0025530							04/21/2004	1904
CCV		M0388	0.99489127		1.00		99.5	%	90-110	04/21/2004	1907
CCB			-0.0028251							04/21/2004	1919
CCV		M0388	0.98675462		1.00		98.7	%	90-110	04/21/2004	2001
CCB			-0.0031815							04/21/2004	2015
CCV		M0388	0.96793545		1.00		96.8	%	90-110	04/21/2004	2051
CCB			-0.0030340							04/21/2004	2105

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00789374		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.98930884		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	0.98435923		1.00		98.4	%	90-110	04/21/2004	1233

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB			0.00341046							04/21/2004	1250
CCB			-0.0005201							04/21/2004	1302
ICB			-0.0054346							04/21/2004	1305
CCV		M0379	1.01052139		1.00		101.1	%	90-110	04/21/2004	1314
CCB			0.00542715							04/21/2004	1327
MB		3010	0.00349215							04/21/2004	1331
LCS		M351	0.51582176		0.500		103.2	%	82-111	04/21/2004	1337
MS	224368-1	M351	0.56914270		0.500	0.04329007	105.2	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.55823850	0.56914270	0.500	0.04329007	103.0	%	75-125	04/21/2004	1356
							1.9	R	20		
CCV		M0388	1.01064762		1.00		101.1	%	90-110	04/21/2004	1412
CCB			-0.0018298							04/21/2004	1426
CCB			-0.0040831							04/21/2004	1445
CCV		M0388	0.99852440		1.00		99.9	%	90-110	04/21/2004	1521
CCB			0.00398880							04/21/2004	1535
MB		3050	-0.0018296							04/21/2004	1538
LCS		M351	0.50433565		0.500		100.9	%	80-110	04/21/2004	1545
SB		M383D	0.96900302		0.996		97.3	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.47015590		0.500	-0.0172731	97.5	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.47134289	0.47015590	0.500	-0.0172731	97.7	%	75-125	04/21/2004	1612
							0.3	R	20		
CCV		M0388	1.02854925		1.00		102.9	%	90-110	04/21/2004	1621
CCB			0.00664351							04/21/2004	1632
MB		3010	-0.0006600							04/21/2004	1635
LCS		M351	0.48398730		0.500		96.8	%	82-111	04/21/2004	1639
MS	224341-4	M351	0.55331423		0.500	0.03152910	104.4	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.55805319	0.55331423	0.500	0.03152910	105.3	%	75-125	04/21/2004	1653
							0.9	R	20		
CCV		M0388	0.95425891		1.00		95.4	%	90-110	04/21/2004	1717
CCB			-0.0007683							04/21/2004	1730
MB		3050	0.00069773							04/21/2004	1751
LCS		M351	0.48263814		0.500		96.5	%	82-111	04/21/2004	1757
CCV		M0388	0.97980793		1.00		98.0	%	90-110	04/21/2004	1811
CCB			-0.0033974							04/21/2004	1825
MS	224358-9	M351	0.50241517		0.500	-0.0119756	102.9	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.50873253	0.50241517	0.500	-0.0119756	104.1	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0065146							04/21/2004	1904
CCV		M0388	0.99718366		1.00		99.7	%	90-110	04/21/2004	1907
CCB			0.00340628							04/21/2004	1919
CCV		M0388	1.01045708		1.00		101.0	%	90-110	04/21/2004	2001
CCB			-0.0026318							04/21/2004	2015
CCV		M0388	0.99305601		1.00		99.3	%	90-110	04/21/2004	2051
CCB			-0.0039853							04/21/2004	2105

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.00233983		1.0		100.2	%	90-110	04/21/2004	1202
ICV		M0369	0.99039974		1.00		99.0	%	90-110	04/21/2004	1222
ICB			-0.0009610							04/21/2004	1250
CCB			-0.0004665							04/21/2004	1302
ICB			-0.0017360							04/21/2004	1305
CCV		M0379	0.50566997		0.50		101.1	%	90-110	04/21/2004	1314
CCB			-0.0018862							04/21/2004	1327
MB		3010	-0.0011878							04/21/2004	1331
LCS		M351	0.25751463		0.25		103.0	%	87-110	04/21/2004	1337
MS	224368-1	M351	0.25132622		0.25	-0.0050069	102.5	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.25009277	0.25132622	0.25	-0.0050069	102.0	%	75-125	04/21/2004	1356
							0.5	R	20		
CCV		M0388	0.50809940		0.50		101.6	%	90-110	04/21/2004	1412
CCB			-0.0009420							04/21/2004	1426
CCB			-0.0017608							04/21/2004	1445
CCV		M0388	0.50001695		0.50		100.0	%	90-110	04/21/2004	1521
CCB			-0.0019475							04/21/2004	1535
MB		3050	-0.0019559							04/21/2004	1538
LCS		M351	0.24876006		0.25		99.5	%	81-110	04/21/2004	1545
SB		M383D	1.04203460		0.953		109.3	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.23920034		0.25	-0.0049577	97.7	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.24041576	0.23920034	0.25	-0.0049577	98.1	%	75-125	04/21/2004	1612
							0.5	R	20		
CCV		M0388	0.50904850		0.50		101.8	%	90-110	04/21/2004	1621
CCB			-0.0015870							04/21/2004	1632
MB		3010	-0.0018040							04/21/2004	1635
LCS		M351	0.24602567		0.25		98.4	%	87-110	04/21/2004	1639
MS	224341-4	M351	0.24751042		0.25	-0.0051872	101.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.24554174	0.24751042	0.25	-0.0051872	100.3	%	75-125	04/21/2004	1653
							0.8	R	20		
CCV		M0388	0.50795639		0.50		101.6	%	90-110	04/21/2004	1717
CCB			-0.0010042							04/21/2004	1730
MB		3050	-0.0021778							04/21/2004	1751
LCS		M351	0.25260300		0.25		101.0	%	87-110	04/21/2004	1757
CCV		M0388	0.50139941		0.50		100.3	%	90-110	04/21/2004	1811
CCB			-0.0018077							04/21/2004	1825
MS	224358-9	M351	0.25679236		0.25	-0.0015276	103.3	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.25502657	0.25679236	0.25	-0.0015276	102.6	%	75-125	04/21/2004	1840
							0.7	R	20		
MB		3010	-0.0016725							04/21/2004	1904
CCV		M0388	0.49681970		0.50		99.4	%	90-110	04/21/2004	1907
CCB			-0.0013804							04/21/2004	1919
CCV		M0388	0.50236777		0.50		100.5	%	90-110	04/21/2004	2001
CCB			-0.0016716							04/21/2004	2015
CCV		M0388	0.49697360		0.50		99.4	%	90-110	04/21/2004	2051
CCB			-0.0010169							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.10496335		2.00		105.2	%	90-110	04/23/2004	1349
RS		M0371	2.05803025		2.00		102.9	%	90-110	04/23/2004	1359
ICV		M0374	1.00534008		1.00		100.5	%	90-110	04/23/2004	1422
CCV		M0388	2.07370401		2.00		103.7	%	90-110	04/23/2004	1448
CCB			-0.0047198							04/23/2004	1501
CCV		M0388	2.05825955		2.00		102.9	%	90-110	04/23/2004	1607
CCB			0.01743591							04/23/2004	1612
MB		3010	-0.0124011							04/23/2004	1623
LCS		M351	1.03351289		1.00		103.4	%	83-118	04/23/2004	1627
CCB			-0.0185738							04/23/2004	1632
MB		3010	-0.0153073							04/23/2004	1648
MB		3010.	-0.0151764							04/23/2004	1651
LCS		M351	1.03906767		1.00		103.9	%	83-118	04/23/2004	1655
CCV		M0388	2.01508569		2.00		100.8	%	90-110	04/23/2004	1712
CCB			-0.0116118							04/23/2004	1726
MS	224389-3	M351	0.99590767		1.00	-0.0369076	103.3	%	75-125	04/23/2004	1740
MSD	224389-3	M351	1.01395660	0.99590767	1.00	-0.0369076	105.1	%	75-125	04/23/2004	1745
							1.8	R	20		
CCV		M0388	2.03318442		2.00		101.7	%	90-110	04/23/2004	1813
CCB			-0.0110304							04/23/2004	1826
CCV		M0388	2.00539274		2.00		100.3	%	90-110	04/23/2004	1909
CCB			-0.0120060							04/23/2004	1923
MB		3010.	-0.0161856							04/23/2004	1936
LCS		M351	1.02953109		1.00		103.0	%	83-118	04/23/2004	1940
MS	224400-2	M351	1.05128135		1.00	-0.0184096	107.0	%	75-125	04/23/2004	1953
MSD	224400-2	M351	1.04633632	1.05128135	1.00	-0.0184096	106.5	%	75-125	04/23/2004	1959
							0.5	R	20		
CCV		M0388	2.05328924		2.00		102.7	%	90-110	04/23/2004	2013
CCB			-0.0094764							04/23/2004	2026
MB		3010	-0.0118164							04/23/2004	2029
LCS		M351	1.04182693		1.00		104.2	%	83-118	04/23/2004	2033
MB		3010	-0.0153187							04/23/2004	2053
LCS		M351	0.96516855		1.00		96.5	%	83-118	04/23/2004	2059
B			-0.0199158							04/23/2004	2104
CCV		M0388	2.02877114		2.00		101.4	%	90-110	04/23/2004	2122
CCB			-0.0105243							04/23/2004	2136
MD	224404-6		-0.0128982			-0.0151623	0.0022641	A	0.0200000	04/23/2004	2142
MS	224404-6	M351	1.02677486		1.00	-0.0151623	104.2	%	75-125	04/23/2004	2149
MSD	224404-6	M351	1.00908365	1.02677486	1.00	-0.0151623	102.4	%	75-125	04/23/2004	2154
							1.7	R	20		
MB		3010	-0.0067999							04/23/2004	2204
LCS		M351	1.02010687		1.00		102.0	%	83-118	04/23/2004	2211
CCV		M0388	2.07336790		2.00		103.7	%	90-110	04/23/2004	2228
CCB			-0.0073217							04/23/2004	2241
MS	224401-1	M351	1.01030912		1.00	-0.0348454	104.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	1.01227105	1.01030912	1.00	-0.0348454	104.7	%	75-125	04/23/2004	2253
							0.2	R	20		
CCV		M0388	2.00528245		2.00		100.3	%	90-110	04/23/2004	2322
CCB			-0.0020157							04/23/2004	2333
CCV		M0388	1.96534010		2.00		98.3	%	90-110	04/24/2004	0014
CCB			-0.0107983							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00735936		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.95703485		1.00		95.7	%	90-110	04/21/2004	1217
ICV		M0380	0.96962440		1.00		97.0	%	90-110	04/21/2004	1233
ICB			-0.0028295							04/21/2004	1250
CCB			-0.0026708							04/21/2004	1302
ICB			-0.0026616							04/21/2004	1305
CCV		M0379	0.98766245		1.00		98.8	%	90-110	04/21/2004	1314
CCB			-0.0026240							04/21/2004	1327
MB		3010	-0.0034663							04/21/2004	1331
LCS		M351	0.50458313		0.500		100.9	%	89-110	04/21/2004	1337
MS	224368-1	M351	0.49793346		0.500	-0.0021595	100.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.49411083	0.49793346	0.500	-0.0021595	99.3	%	75-125	04/21/2004	1356
							0.8	R	20		
CCV		M0388	0.99027984		1.00		99.0	%	90-110	04/21/2004	1412
CCB			-0.0031341							04/21/2004	1426
CCB			-0.0021960							04/21/2004	1445
CCV		M0388	0.97392056		1.00		97.4	%	90-110	04/21/2004	1521
CCB			-0.0026632							04/21/2004	1535
MB		3050	-0.0029951							04/21/2004	1538
LCS		M351	0.48742509		0.500		97.5	%	87-110	04/21/2004	1545
SB		M383D	1.92735657		2.04		94.5	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.76154227		0.500	0.26049419	100.2	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.76399553	0.76154227	0.500	0.26049419	100.7	%	75-125	04/21/2004	1612
							0.3	R	20		
CCV		M0388	0.99641122		1.00		99.6	%	90-110	04/21/2004	1621
CCB			-0.0029224							04/21/2004	1632
MB		3010	-0.0027956							04/21/2004	1635
LCS		M351	0.48199993		0.500		96.4	%	89-110	04/21/2004	1639
MS	224341-4	M351	0.50530796		0.500	-0.0004248	101.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.50823958	0.50530796	0.500	-0.0004248	101.7	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	0.98841446		1.00		98.8	%	90-110	04/21/2004	1717
CCB			-0.0027761							04/21/2004	1730
MB		3050	-0.0030550							04/21/2004	1751
LCS		M351	0.49446648		0.500		98.9	%	89-110	04/21/2004	1757
CCV		M0388	0.98555846		1.00		98.6	%	90-110	04/21/2004	1811
CCB			-0.0022942							04/21/2004	1825
MS	224358-9	M351	0.61042866		0.500	0.09060581	104.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.60024964	0.61042866	0.500	0.09060581	101.9	%	75-125	04/21/2004	1840
							1.7	R	20		
MB		3010	-0.0025056							04/21/2004	1904
CCV		M0388	0.96969744		1.00		97.0	%	90-110	04/21/2004	1907
CCB			-0.0026115							04/21/2004	1919
CCV		M0388	0.97245240		1.00		97.2	%	90-110	04/21/2004	2001
CCB			-0.0030123							04/21/2004	2015
CCV		M0388	0.95999915		1.00		96.0	%	90-110	04/21/2004	2051
CCB			-0.0030166							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224365 Report Date.: 05/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0380	0.98754865		1.00		98.8	%	90-110	04/21/2004	1233
CCV		M0379	1.00248947		1.00		100.2	%	90-110	04/21/2004	1314
CCB			-0.0065085							04/21/2004	1327
MB		3010	-0.0067165							04/21/2004	1331
LCS		M351	0.50050317		0.500		100.1	%	86-110	04/21/2004	1337
CCV		M0388	1.00201745		1.00		100.2	%	90-110	04/21/2004	1412
CCB			-0.0046401							04/21/2004	1426
CCV		M0388	0.97397943		1.00		97.4	%	90-110	04/21/2004	1521
CCB			-0.0055630							04/21/2004	1527
CCV		M0388	1.00551893		1.00		100.6	%	90-110	04/21/2004	1717
CCB			0.00044058							04/21/2004	1730

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Report

SEVERN TRENT STL

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D220229

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

May 3, 2004

STL LOT NUMBER: **I4D220229**

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on April 21, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D220229

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224365-1 04/19/04 15:55 001				
Cadmium	228	1.0	ug/L	SW846 6020
Antimony	2.1	1.0	ug/L	SW846 6020
Thallium	2.2	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D220229

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D220229

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GEM82	001	224365-1	04/19/04	15:55
GEM89	002	224365-2	04/19/04	16:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D220229

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4118143	4118048
	WATER	SW846 6010B		4118144	4118049
002	WATER	SW846 6020		4118143	4118048
	WATER	SW846 6010B		4118144	4118049

STL CORPUS CHRISTI

Client Sample ID: 224365-1

TOTAL Metals

Lot-Sample #...: I4D220229-001 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4118143						
Cadmium	228	1.0	ug/L	SW846 6020	04/26-04/27/04	GEM821AA
		Dilution Factor: 1		Analysis Time..: 17:24	MS Run #.....: 4118048	
Antimony	2.1	1.0	ug/L	SW846 6020	04/26-04/27/04	GEM821AC
		Dilution Factor: 1		Analysis Time..: 17:24	MS Run #.....: 4118048	
Thallium	2.2	1.0	ug/L	SW846 6020	04/26-04/27/04	GEM821AD
		Dilution Factor: 1		Analysis Time..: 17:24	MS Run #.....: 4118048	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEM821AE
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224365-2

TOTAL Metals

Lot-Sample #...: I4D220229-002 **Matrix.....:** WATER
Date Sampled...: 04/19/04 16:05 **Date Received..:** 04/21/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4118143						
Cadmium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GEM891AA
		Dilution Factor: 1		Analysis Time..: 17:54	MS Run #.....: 4118048	
Antimony	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GEM891AC
		Dilution Factor: 1		Analysis Time..: 17:54	MS Run #.....: 4118048	
Thallium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GEM891AD
		Dilution Factor: 1		Analysis Time..: 17:54	MS Run #.....: 4118048	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEM891AE
		Dilution Factor: 1		Analysis Time..: 12:52	MS Run #.....: 4118049	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D270000-143 **Prep Batch #...:** 4118143						
Antimony	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AC
		Dilution Factor: 1				
		Analysis Time..: 17:02				
Cadmium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AA
		Dilution Factor: 1				
		Analysis Time..: 17:02				
Thallium	ND	1.0	ug/L	SW846 6020	04/26-04/27/04	GE0RT1AD
		Dilution Factor: 1				
		Analysis Time..: 17:02				
MB Lot-Sample #: I4D270000-144 **Prep Batch #...:** 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GE0RW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:41				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D270000-143 **Prep Batch #...:** 4118143					
Cadmium	99	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AE
		Dilution Factor: 1	Analysis Time..: 17:19		
Antimony	97	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AF
		Dilution Factor: 1	Analysis Time..: 17:19		
Thallium	107	(80 - 120)	SW846 6020	04/26-04/27/04	GE0RT1AG
		Dilution Factor: 1	Analysis Time..: 17:19		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144					
Bismuth	102	(80 - 120)	SW846 6010B	04/26-04/28/04	GE0RW1AC
		Dilution Factor: 1	Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D270000-143 **Prep Batch #...:** 4118143							
Cadmium	50.0	49.3	ug/L	99	SW846 6020	04/26-04/27/04	GE0RT1AE
			Dilution Factor: 1		Analysis Time..: 17:19		
Antimony	50.0	48.4	ug/L	97	SW846 6020	04/26-04/27/04	GE0RT1AF
			Dilution Factor: 1		Analysis Time..: 17:19		
Thallium	50.0	53.3	ug/L	107	SW846 6020	04/26-04/27/04	GE0RT1AG
			Dilution Factor: 1		Analysis Time..: 17:19		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	04/26-04/28/04	GE0RW1AC
			Dilution Factor: 1		Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D220229-001 **Prep Batch #...:** 4118143							
Antimony	100	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AH
	101	(80 - 120)	0.83	(0-20)	SW846 6020	04/26-04/27/04	GEM821AJ
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					
Cadmium	114	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AF
	111	(80 - 120)	0.55	(0-20)	SW846 6020	04/26-04/27/04	GEM821AG
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					
Thallium	110	(80 - 120)			SW846 6020	04/26-04/27/04	GEM821AK
	111	(80 - 120)	1.2	(0-20)	SW846 6020	04/26-04/27/04	GEM821AL
		Dilution Factor: 1					
		Analysis Time..: 17:42					
		MS Run #.....: 4118048					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER
Date Sampled...: 04/19/04 15:55 **Date Received..:** 04/21/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D220229-001 **Prep Batch #...:** 4118143									
Antimony									
	2.1	50.0	52.1	ug/L	100		SW846 6020	04/26-04/27/04	GEM821AH
	2.1	50.0	52.6	ug/L	101	0.83	SW846 6020	04/26-04/27/04	GEM821AJ
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						
Cadmium									
	228	50.0	285	ug/L	114		SW846 6020	04/26-04/27/04	GEM821AF
	228	50.0	283	ug/L	111	0.55	SW846 6020	04/26-04/27/04	GEM821AG
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						
Thallium									
	2.2	50.0	57.0	ug/L	110		SW846 6020	04/26-04/27/04	GEM821AK
	2.2	50.0	57.7	ug/L	111	1.2	SW846 6020	04/26-04/27/04	GEM821AL
			Dilution Factor: 1						
			Analysis Time..: 17:42						
			MS Run #.....: 4118048						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144							
Bismuth	100	(75 - 125)			SW846 6010B	04/26-04/28/04	GEG2G1AM
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/26-04/28/04	GEG2G1AN

Dilution Factor: 1
Analysis Time..: 12:27
MS Run #.....: 4118049

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D220229 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144									
Bismuth									
	ND	0.500	0.502	mg/L	100		SW846 6010B	04/26-04/28/04	GEG2G1AM
	ND	0.500	0.494	mg/L	99	1.6	SW846 6010B	04/26-04/28/04	GEG2G1AN

Dilution Factor: 1
Analysis Time..: 12:27
MS Run #.....: 4118049

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I4DZZ0229

RECEIVED BY: CTC

COC NUMBER:

DATE/TIME RECEIVED: 4-21-04 0930

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4-21-04 1100

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: LOG-IN REVIEWED:

Number of Shipping Containers Received with Chain of Custody: 1

CC

DW

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☑ YES ☐ NO — Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **IR THERMOMETER #:** 05

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** CC

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: CC

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☐ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: Mark Sabol Date: 5/3/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

No. 23717

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	BILLING INFORMATION
ADDRESS:	BILL TO:
	ADDRESS:
	same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST 6020 (Sb, Cd, Tl)	6010 (Bi)							REMARKS/PRECAUTIONS
	224365-1	4/19/04	15:55	Water	P500	HNO_3	1	X	X							Attn:
	224365-2	↓	16:05	↓	↓	↓	1	X	X							Neal Salcher
																ASARCO Pricing
																2°C 4-21-04 CC

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Verónica McDonald	4/19/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 10:05	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	4-21-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/05/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/05/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure
Project Location: Encycle Corpus Christi, TX
Laboratory: STL
Project Manager: Ken Brandner
Sampler(s)/Affiliation: Ken Brandner/ARCADIS

9.8°C
Just sampled
224365

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cyanide (1qt poly w/NaOH)	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 1pt poly w/HNO3)					Remarks	Total
BINL	L	4/19/04 3:55		1	2					Need low detection limits	3
Field Blank	L	4/19/04 4:05		1	2						3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 6

Relinquished by: Kenneth Brandner	Organization: ARCADIS	Date 4/19/04	Time 1633	Seal Intact?	
Received by: [signature]	Organization: STL-CC	Date 4/19/04	Time 1633	Yes No (N/A)	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by:	Organization:	Date / /	Time	Yes No N/A	

Special Instructions/Remarks: Results to Ken Brandner and Rich Marcus. Invoice to Rich Marcus for RCRA Closure
Need low detection limits. Normal turnaround time

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274922 **Report Date:** 06/10/04
Project ID: Encycle RCRA Corrective Action
Sample Name: Bin L
Sample Matrix: water
Date Received: 06/03/2004 **Time:** 16:20
Date Sampled: 06/03/2004 **Time:** 03:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/04/04	3015	---	---	---	---	---
Cadmium/GFAA	0.0099	mg/L	0.001	<0.001	06/08/04	7131 & 213.2	---	0.78	103.23	105	101.8
Lead/ICP	0.112	mg/L	0.01	<0.01	06/08/04	6010 & 200.7	---	4.12	95.27	97.78	100.96
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	06/09/04	279.2&7841	---	10.66	96.1	84.5	112.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Corrective Action

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Cd, Pb, Thallium (1 pt. poly w/ HNO3)						Remarks	Total
BIN L 274922	L	6/3/04 3:30		1						Need low detection limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: Kenneth J. Brandner	Organization: ARCADIS	Date 6/3/04	Time 1620	Seal Intact? Yes No N/A
Received by: T. Escamilla	Organization: ASI	Date 6/3/04	Time 1620	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by: [signature]	Organization: ASI	Date 6/4/04	Time 0835	

Special Instructions/Remarks: Send results to Ken Brandner and Rich Marcus.
Invoice to Rich Marcus for RCRA Corrective Action
Need 5-day turnaround time.

T:2.2C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274956 **Report Date:** 06/16/04
Project ID: Encycle RCRA Corrective Action
Sample Name: Bin L
Sample Matrix: water
Date Received: 06/04/2004 **Time:** 13:20
Date Sampled: 06/04/2004 **Time:** 13:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	06/10/04	3015	---	---	---	---	---
Cadmium/GFAA	0.0041	mg/L	0.001	<0.001	06/11/04	7131 & 213.2	---	3.79	90.72	101	98.2
Lead/ICP	0.0302	mg/L	0.01	<0.01	06/15/04	6010 & 200.7	---	2.2	83.11	95.48	74.42

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. # _____

CHAIN-OF-CUSTODY RECORD

Page _1_ of _1_

Project Number/Name: Encycle RCRA Corrective Action

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: Ken Brandes

Sampler(s)/Affiliation: Orlando Gonzalez/ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Hold for possible Metals analysis (1pt. poly w/HNO3)	ANALYSIS / METHOD / SIZE: 8260 + CA	ANALYSIS / METHOD / SIZE	ANALYSIS / METHOD / SIZE	ANALYSIS / METHOD / SIZE	ANALYSIS / METHOD / SIZE	Remarks	Total
B.N L 274956	L	6/4/04 13:10		~~EHOD~~	X					Hold	1

Sample Matrix: L = Liquid; ~~S = Solid;~~ A = Air

Total No. of Bottles/Containers: 1

Relinquished by:		Organization: ARCADIS	Date 6/14/04	Time 13:20	Seal Intact?	
Received by:		Organization: ASI	Date 6/14/04	Time 1320	Yes No (N/A)	
Relinquished by:		Organization:	Date / /	Time	Seal Intact?	
Received by: D. Flynn		Organization: ASI	Date 6/7/04	Time 0800	Yes No N/A	

Special Instructions/Remarks: Hold sample until notified by ARCADIS or Encycle. T-2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278201 **Report Date:** 09/27/04
Project ID: Encycle RCRA Closure
Sample Name: Bin L
Sample Matrix: water
Date Received: 09/23/2004 **Time:** 16:15
Date Sampled: 09/23/2004 **Time:** 16:10

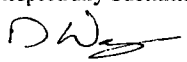
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/24/04	3015	---	---	---	---	---
Lead/ICP	0.12	mg/L	0.01	<0.01	09/26/04	6010 & 200.7	---	1.45	91.85	97.08	80.48

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,



Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Address: 711 N. CARANCAHUA
City: CC State: TX Zip: 78475
ATTN: RON BRANDER / Rich Marcus
Phone: 883 1353 Fax: 883 7565

Bill To (if different):

Company Name: ENCANA PURA VIDA
Address:
City: State: Zip:
ATTN: [redacted] Rich Marcus
Phone: Fax:

Project Name/PO#: Sampler

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Water	Wastewater	Waste	Soil	Other (Specify)	Total Lead										RUSH TAT (Pre-Scheduled)	Standard TAT
BIN L	9-23-04	1610	1	X		278201	X	X																							

Special Instructions (such as special QC requirements, lists, methods, etc...) NEED 3-day TURNAROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By				Sample Received By				YES	✓		
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time				
J Clements	PRADIS	9-23-04	1615	L Bowman	ASI	9.23.04	1615	NO			
				D Flynn	ASI	9/24/04	0845				

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

AnalySys INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278336 **Report Date:** 10/01/04
Project ID: Encycle RCRA Closure
Sample Name: Bin L
Sample Matrix: water
Date Received: 09/29/2004 **Time:** 12:50
Date Sampled: 09/29/2004 **Time:** 11:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	09/30/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/30/04	6010 & 200.7	J	1.64	95.63	97.24	98.82

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Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 278336 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin L

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Lead/ICP	J	See J-flag discussion above.

Notes:

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ATTN: KEN BRADNER / RICH MARCUS
Phone 8831353 Fax 8837565
Project Name/PO#: _____ Sampler _____

Bill To (if different):
Company Name ENCYCLE RCRA CLOSURE
Address _____
City _____ State _____ Zip _____
ATTN: RICH MARCUS
Phone _____ Fax _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TOTAL Pb											RUSH TAT (Pre-Scheduled)	Standard TAT
BIN L	9-29-04	1145	1	X		278336	X	X						X																	

Special Instructions (such as special QC requirements, lists, methods, etc…)
NEED 3 day TURNAROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): t=2.0

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
J. CLEMENTS	ARCADIS	9-29-04	1250	L Flowman	ASI	9.29.04	1250
				L Flynn	ASI	9/30/04	0845

YES ✓
NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

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BY:

ANALYTICAL REPORT

JOB NUMBER: 224349

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/06/2004

Olga Veronica McDonald
Signature

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

5/6/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 45

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/06/2004

Job Number.: 224349
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224349-1	BIN M	Water	04/16/2004	15:45	04/16/2004	16:04

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224349 Date: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN M
Date Sampled.....: 04/16/2004
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 224349-1
Date Received.....: 04/16/2004
Time Received.....: 16:04

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/20/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/20/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Barium (Ba), Total	0.07	0.01	mg/L	04/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Copper (Cu), Total	0.11	0.01	mg/L	04/21/04	jem
SW-846 6010B	Lead (Pb), Total	0.29	0.01	mg/L	04/21/04	jem
SW-846 6010B	Manganese (Mn), Total	0.03	0.01	mg/L	04/21/04	jem
SW-846 6010B	Nickel (Ni), Total	0.07	0.01	mg/L	04/21/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/21/04	jem
SW-846 6010B	Zinc (Zn), Total	1.16	0.01	mg/L	04/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/20/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92723 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042004HG	0.00485		0.00500		97.0	%	90-110	04/20/2004	1533
ICB			-0.000173							04/20/2004	1537
LCS		M042004LG	0.00537		0.0050		107.4	%	85-115	04/20/2004	1540
MB			0.000193							04/20/2004	1544
MS	224198-3	M042004HG	0.00581		0.00500	0.000279	110.6	%	75-125	04/20/2004	1601
MSD	224198-3	M042004HG	0.00570	0.00581	0.00500	0.000279	108.4	%	75-125	04/20/2004	1602
							1.9	R	20		
CCV		M042004HG	0.00505		0.00500		101.0	%	80-120	04/20/2004	1606
CCB			-0.000096							04/20/2004	1609
CCV		M042004HG	0.00485		0.00500		97.0	%	80-120	04/20/2004	1628
CCB			-0.000180							04/20/2004	1630
LCS		M042004LG	0.00481		0.0050		96.2	%	85-115	04/20/2004	1633
MB			-0.000085							04/20/2004	1635
MS	224297-3	M042004HG	0.00530		0.00500	0.000134	103.3	%	75-125	04/20/2004	1655
MSD	224297-3	M042004HG	0.00556	0.00530	0.00500	0.000134	108.5	%	75-125	04/20/2004	1657
							4.8	R	20		
CCV		M042004HG	0.00482		0.00500		96.4	%	80-120	04/20/2004	1707
CCB			-0.000097							04/20/2004	1712
CCV		M042004HG	0.00469		0.00500		93.8	%	80-120	04/20/2004	1731
CCB			-0.000082							04/20/2004	1735
LCS		M042004LG	0.00512		0.0050		102.4	%	85-115	04/20/2004	1736
MB			-0.000109							04/20/2004	1738
CCV		M042004HG	0.00478		0.00500		95.6	%	80-120	04/20/2004	1757
CCB			-0.000184							04/20/2004	1759
MS	224278-5	M042004HG	0.00488		0.00500	0.000297	91.7	%	75-125	04/20/2004	1809
MSD	224278-5	M042004HG	0.00486	0.00488	0.00500	0.000297	91.3	%	75-125	04/20/2004	1810
							0.4	R	20		
CCV		M042004HG	0.00495		0.00500		99.0	%	80-120	04/20/2004	1826
CCB			0.000084							04/20/2004	1828

Test Method.....: EPA 335.3 Batch.....: 92716 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		042004	-0.0016							04/20/2004	1530
CCV		CN40420E	0.4181		0.4000		104.5	%	90-110	04/20/2004	1534
MB		042004	0.0015							04/20/2004	1538
LCS		CN40420P	0.0420		0.05000		84.0	%	69-112	04/20/2004	1543
LCS		CN40420Q	0.0841		0.1000		84.1	%	69-112	04/20/2004	1547
LCS		CN40420R	0.1624		0.2000		81.2	%	69-112	04/20/2004	1551
MS	224323-1	CN40420S	0.0555		0.05000	-0.0015	114.0	%	75-125	04/20/2004	1604
MSD	224323-1	CN40420S	0.0586	0.0555	0.05000	-0.0015	120.2	%	75-125	04/20/2004	1608
							5.4	R	20		
CCB		042004	-0.0001							04/20/2004	1633
CCV		CN40420E	0.4100		0.4000		102.5	%	90-110	04/20/2004	1637

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98682194		2.00		99.3	%	90-110	04/21/2004	1202
ICV		M0368	0.96282794		1.00		96.3	%	90-110	04/21/2004	1217
ICV		M0380	0.96441851		1.00		96.4	%	90-110	04/21/2004	1233
ICB			-0.0043145							04/21/2004	1250
CCB			-0.0026946							04/21/2004	1302
ICB			-0.0031249							04/21/2004	1305
CCV		M0379	0.99652252		1.00		99.7	%	90-110	04/21/2004	1314
CCB			-0.0055443							04/21/2004	1327
MB		3010	-0.0072995							04/21/2004	1331
LCS		M351	0.51078999		0.500		102.2	%	85-110	04/21/2004	1337
MS	224368-1	M351	0.55419534		0.500	0.01936286	107.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.54505749	0.55419534	0.500	0.01936286	105.1	%	75-125	04/21/2004	1356
							1.7	R	20		
CCV		M0388	0.99977030		1.00		100.0	%	90-110	04/21/2004	1412
CCB			-0.0034037							04/21/2004	1426
CCB			-0.0037158							04/21/2004	1445
CCV		M0388	0.98860619		1.00		98.9	%	90-110	04/21/2004	1521
CCB			-0.0029723							04/21/2004	1535
MB		3050	-0.0059921							04/21/2004	1538
LCS		M351	0.50559780		0.500		101.1	%	82-110	04/21/2004	1545
SB		M383D	2.24535567		2.31		97.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.50588736		0.500	0.02993989	95.2	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50298047	0.50588736	0.500	0.02993989	94.6	%	75-125	04/21/2004	1612
							0.6	R	20		
CCV		M0388	1.00958398		1.00		101.0	%	90-110	04/21/2004	1621
CCB			-0.0034159							04/21/2004	1632
MB		3010	0.00221022							04/21/2004	1635
LCS		M351	0.48585761		0.500		97.2	%	85-110	04/21/2004	1639
MS	224341-4	M351	0.52661415		0.500	0.00293508	104.7	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.52488059	0.52661415	0.500	0.00293508	104.4	%	75-125	04/21/2004	1653
							0.3	R	20		
CCV		M0388	0.96601029		1.00		96.6	%	90-110	04/21/2004	1717
CCB			-0.0047306							04/21/2004	1730
MB		3050	-0.0039584							04/21/2004	1751
LCS		M351	0.50407557		0.500		100.8	%	85-110	04/21/2004	1757
CCV		M0388	0.99169483		1.00		99.2	%	90-110	04/21/2004	1811
CCB			-0.0045971							04/21/2004	1825
MS	224358-9	M351	0.52572204		0.500	0.01096506	103.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.52044010	0.52572204	0.500	0.01096506	101.9	%	75-125	04/21/2004	1840
							1.0	R	20		
MB		3010	-0.0041382							04/21/2004	1904
CCV		M0388	0.98898259		1.00		98.9	%	90-110	04/21/2004	1907
CCB			-0.0043333							04/21/2004	1919
CCV		M0388	0.99021080		1.00		99.0	%	90-110	04/21/2004	2001
CCB			-0.0030498							04/21/2004	2015
CCV		M0388	0.98724345		1.00		98.7	%	90-110	04/21/2004	2051
CCB			-0.0011951							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99867639		2.00		99.9	%	90-110	04/21/2004	1202
ICV		M0369	0.97094086		1.00		97.1	%	90-110	04/21/2004	1222
ICB			-0.0029037							04/21/2004	1250
CCB			-0.0028426							04/21/2004	1302
ICB			-0.0028814							04/21/2004	1305
CCV		M0379	1.01243604		1.00		101.2	%	90-110	04/21/2004	1314
CCB			-0.0030621							04/21/2004	1327
MB		3010	-0.0031161							04/21/2004	1331
LCS		M351	0.51908266		0.500		103.8	%	90-110	04/21/2004	1337
MS	224368-1	M351	1.33162816		0.500	0.88112040	90.1	%	75-125	04/21/2004	1351
MSD	224368-1	M351	1.32780978	1.33162816	0.500	0.88112040	89.3	%	75-125	04/21/2004	1356
							0.3	R	20		
CCV		M0388	1.00868794		1.00		100.9	%	90-110	04/21/2004	1412
CCB			-0.0028905							04/21/2004	1426
CCB			-0.0028545							04/21/2004	1445
CCV		M0388	0.99225959		1.00		99.2	%	90-110	04/21/2004	1521
CCB			-0.0029637							04/21/2004	1535
MB		3050	-0.0030322							04/21/2004	1538
LCS		M351	0.50580831		0.500		101.2	%	89-110	04/21/2004	1545
SB		M383D	8.98538216		10.00		89.9	%	80-120	04/21/2004	1550
CCV		M0388	1.00870435		1.00		100.9	%	90-110	04/21/2004	1621
CCB			-0.0028469							04/21/2004	1632
MB		3010	-0.0021743							04/21/2004	1635
LCS		M351	0.48895480		0.500		97.8	%	90-110	04/21/2004	1639
MS	224341-4	M351	1.68258005		0.500	1.20084476	96.3	%	75-125	04/21/2004	1647
MSD	224341-4	M351	1.66892327	1.68258005	0.500	1.20084476	93.6	%	75-125	04/21/2004	1653
							0.8	R	20		
CCV		M0388	0.99352492		1.00		99.4	%	90-110	04/21/2004	1717
CCB			-0.0028806							04/21/2004	1730
MB		3050	-0.0029162							04/21/2004	1751
LCS		M351	0.51465049		0.500		102.9	%	90-110	04/21/2004	1757
CCV		M0388	1.00046762		1.00		100.0	%	90-110	04/21/2004	1811
CCB			-0.0030143							04/21/2004	1825
MS	224358-9	M351	0.66083953		0.500	0.12323086	107.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.64789245	0.66083953	0.500	0.12323086	104.9	%	75-125	04/21/2004	1840
							2.0	R	20		
MB		3010	-0.0028417							04/21/2004	1904
CCV		M0388	0.98387047		1.00		98.4	%	90-110	04/21/2004	1907
CCB			-0.0030050							04/21/2004	1919
CCV		M0388	0.98424266		1.00		98.4	%	90-110	04/21/2004	2001
CCB			-0.0029379							04/21/2004	2015
CCV		M0388	0.97390143		1.00		97.4	%	90-110	04/21/2004	2051
CCB			-0.0028471							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00206161		2.00		100.1	%	90-110	04/21/2004	1202
ICV		M0368	0.97008424		1.00		97.0	%	90-110	04/21/2004	1217
ICV		M0380	0.97635344		1.00		97.6	%	90-110	04/21/2004	1233
ICB			-0.0025280							04/21/2004	1250
CCB			-0.0028923							04/21/2004	1302
ICB			-0.0029491							04/21/2004	1305
CCV		M0379	1.01021987		1.00		101.0	%	90-110	04/21/2004	1314
CCB			-0.0025002							04/21/2004	1327
MB		3010	-0.0026280							04/21/2004	1331
LCS		M351	0.51576853		0.500		103.2	%	90-110	04/21/2004	1337
MS	224368-1	M351	0.48455881		0.500	0.00001307	96.9	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.48276881	0.48455881	0.500	0.00001307	96.6	%	75-125	04/21/2004	1356
							0.4	R	20		
CCV		M0388	1.00412533		1.00		100.4	%	90-110	04/21/2004	1412
CCB			-0.0030430							04/21/2004	1426
CCB			-0.0028665							04/21/2004	1445
CCV		M0388	0.98700008		1.00		98.7	%	90-110	04/21/2004	1521
CCB			-0.0023809							04/21/2004	1535
MB		3050	-0.0031665							04/21/2004	1538
LCS		M351	0.50004859		0.500		100.0	%	89-110	04/21/2004	1545
SB		M383D	1.92898265		2.07		93.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.56665323		0.500	0.08133142	97.1	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.56735565	0.56665323	0.500	0.08133142	97.2	%	75-125	04/21/2004	1612
							0.1	R	20		
CCV		M0388	1.00672308		1.00		100.7	%	90-110	04/21/2004	1621
CCB			-0.0030899							04/21/2004	1632
MB		3010	-0.0034035							04/21/2004	1635
LCS		M351	0.48694222		0.500		97.4	%	90-110	04/21/2004	1639
MS	224341-4	M351	0.52079477		0.500	0.03169071	97.8	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.52385486	0.52079477	0.500	0.03169071	98.4	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	0.99878277		1.00		99.9	%	90-110	04/21/2004	1717
CCB			-0.0037539							04/21/2004	1730
MB		3050	-0.0030662							04/21/2004	1751
LCS		M351	0.50912781		0.500		101.8	%	90-110	04/21/2004	1757
CCV		M0388	1.00072309		1.00		100.1	%	90-110	04/21/2004	1811
CCB			-0.0026589							04/21/2004	1825
MS	224358-9	M351	0.58941431		0.500	0.06153031	105.6	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.58258070	0.58941431	0.500	0.06153031	104.2	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0032603							04/21/2004	1904
CCV		M0388	0.98656964		1.00		98.7	%	90-110	04/21/2004	1907
CCB			-0.0028473							04/21/2004	1919
CCV		M0388	0.98414166		1.00		98.4	%	90-110	04/21/2004	2001
CCB			-0.0028815							04/21/2004	2015
CCV		M0388	0.97025569		1.00		97.0	%	90-110	04/21/2004	2051
CCB			-0.0029403							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00774758		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.98776784		1.00		98.8	%	90-110	04/21/2004	1217
ICV		M0380	1.02707696		1.00		102.7	%	90-110	04/21/2004	1233
ICB			-0.0033882							04/21/2004	1250
CCB			-0.0028228							04/21/2004	1302
ICB			-0.0028928							04/21/2004	1305
CCV		M0379	1.01353258		1.00		101.4	%	90-110	04/21/2004	1314
CCB			-0.0027345							04/21/2004	1327
MB		3010	-0.0032059							04/21/2004	1331
LCS		M351	0.51708599		0.500		103.4	%	90-110	04/21/2004	1337
MS	224368-1	M351	0.46766520		0.500	-0.0012401	93.8	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.46004736	0.46766520	0.500	-0.0012401	92.3	%	75-125	04/21/2004	1356
							1.6	R	20		
CCV		M0388	1.01801782		1.00		101.8	%	90-110	04/21/2004	1412
CCB			-0.0030417							04/21/2004	1426
CCB			-0.0031439							04/21/2004	1445
CCV		M0388	1.00223148		1.00		100.2	%	90-110	04/21/2004	1521
CCB			-0.0031534							04/21/2004	1535
MB		3050	-0.0032516							04/21/2004	1538
LCS		M351	0.51282839		0.500		102.6	%	90-110	04/21/2004	1545
SB		M383D	1.99903773		2.10		95.2	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.47787617		0.500	0.03861881	87.9	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.47758248	0.47787617	0.500	0.03861881	87.8	%	75-125	04/21/2004	1612
							0.1	R	20		
CCV		M0388	1.02503383		1.00		102.5	%	90-110	04/21/2004	1621
CCB			-0.0028050							04/21/2004	1632
MB		3010	-0.0027467							04/21/2004	1635
LCS		M351	0.49553908		0.500		99.1	%	90-110	04/21/2004	1639
MS	224341-4	M351	0.46606526		0.500	-0.0028026	93.8	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.46790647	0.46606526	0.500	-0.0028026	94.1	%	75-125	04/21/2004	1653
							0.4	R	20		
CCV		M0388	1.01843418		1.00		101.8	%	90-110	04/21/2004	1717
CCB			-0.0030043							04/21/2004	1730
MB		3050	-0.0030011							04/21/2004	1751
LCS		M351	0.51336530		0.500		102.7	%	90-110	04/21/2004	1757
CCV		M0388	1.01287560		1.00		101.3	%	90-110	04/21/2004	1811
CCB			-0.0033174							04/21/2004	1825
MS	224358-9	M351	0.52300134		0.500	0.01294821	102.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.51715899	0.52300134	0.500	0.01294821	100.8	%	75-125	04/21/2004	1840
							1.1	R	20		
MB		3010	-0.0033594							04/21/2004	1904
CCV		M0388	0.99675091		1.00		99.7	%	90-110	04/21/2004	1907
CCB			-0.0031636							04/21/2004	1919
CCV		M0388	0.99493461		1.00		99.5	%	90-110	04/21/2004	2001
CCB			-0.0030964							04/21/2004	2015
CCV		M0388	0.98886171		1.00		98.9	%	90-110	04/21/2004	2051
CCB			-0.0032256							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00979906		2.00		100.5	%	90-110	04/21/2004	1202
ICV		M0368	1.01890077		1.00		101.9	%	90-110	04/21/2004	1217
ICV		M0380	1.03516736		1.00		103.5	%	90-110	04/21/2004	1233
ICB			-0.0038469							04/21/2004	1250
CCB			-0.0039742							04/21/2004	1302
ICB			-0.0043485							04/21/2004	1305
CCV		M0379	1.04200005		1.00		104.2	%	90-110	04/21/2004	1314
CCB			-0.0042320							04/21/2004	1327
MB		3010	-0.0043206							04/21/2004	1331
LCS		M351	0.54894621		0.500		109.8	%	89-112	04/21/2004	1337
MS	224368-1	M351	0.57047248		0.500	0.02504835	109.1	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.56771792	0.57047248	0.500	0.02504835	108.5	%	75-125	04/21/2004	1356
							0.5	R	20		
CCV		M0388	1.05235814		1.00		105.2	%	90-110	04/21/2004	1412
CCB			-0.0012687							04/21/2004	1426
CCB			-0.0025610							04/21/2004	1445
CCV		M0388	1.02422860		1.00		102.4	%	90-110	04/21/2004	1521
CCB			-0.0052329							04/21/2004	1535
MB		3050	-0.0049815							04/21/2004	1538
LCS		M351	0.56148134		0.500		112.3	%	83-119	04/21/2004	1545
SB		M383D	0.87393654		0.85		102.8	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.56414752		0.500	0.06012872	100.8	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.56689617	0.56414752	0.500	0.06012872	101.4	%	75-125	04/21/2004	1612
							0.5	R	20		
CCV		M0388	1.05173319		1.00		105.2	%	90-110	04/21/2004	1621
CCB			-0.0053850							04/21/2004	1632
MB		3010	-0.0055770							04/21/2004	1635
LCS		M351	0.51464634		0.500		102.9	%	89-112	04/21/2004	1639
MS	224341-4	M351	0.55970562		0.500	0.01707925	108.5	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.56247678	0.55970562	0.500	0.01707925	109.1	%	75-125	04/21/2004	1653
							0.5	R	20		
CCV		M0388	1.07442592		1.00		107.4	%	90-110	04/21/2004	1717
CCB			-0.0076806							04/21/2004	1730
MB		3050	-0.0073884							04/21/2004	1751
LCS		M351	0.55528181		0.500		111.1	%	89-112	04/21/2004	1757
CCV		M0388	1.05460460		1.00		105.5	%	90-110	04/21/2004	1811
CCB			-0.0072313							04/21/2004	1825
MS	224358-9	M351	0.65565918		0.500	0.06634480	117.9	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.64494725	0.65565918	0.500	0.06634480	115.7	%	75-125	04/21/2004	1840
							1.6	R	20		
MB		3010	-0.0055292							04/21/2004	1904
CCV		M0388	1.03423098		1.00		103.4	%	90-110	04/21/2004	1907
CCB			-0.0060915							04/21/2004	1919
CCV		M0388	1.05214653		1.00		105.2	%	90-110	04/21/2004	2001
CCB			-0.0074911							04/21/2004	2015
CCV		M0388	1.04142408		1.00		104.1	%	90-110	04/21/2004	2051
CCB			-0.0078002							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00168952		2.00		100.1	%	90-110	04/21/2004	1202
ICV		M0368	1.00594144		1.00		100.6	%	90-110	04/21/2004	1217
ICV		M0380	1.00334114		1.00		100.3	%	90-110	04/21/2004	1233
ICB			-0.0027467							04/21/2004	1250
CCB			-0.0022444							04/21/2004	1302
ICB			-0.0036068							04/21/2004	1305
CCV		M0379	1.01092704		1.00		101.1	%	90-110	04/21/2004	1314
CCB			-0.0021854							04/21/2004	1327
MB		3010	-0.0037823							04/21/2004	1331
LCS		M351	0.51588725		0.500		103.2	%	87-112	04/21/2004	1337
MS	224368-1	M351	0.91726900		0.500	0.46706968	90.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.91028261	0.91726900	0.500	0.46706968	88.6	%	75-125	04/21/2004	1356
							0.8	R	20		
CCV		M0388	1.01480849		1.00		101.5	%	90-110	04/21/2004	1412
CCB			-0.0020732							04/21/2004	1426
CCB			-0.0017934							04/21/2004	1445
CCV		M0388	0.99311075		1.00		99.3	%	90-110	04/21/2004	1521
CCB			-0.0030253							04/21/2004	1535
MB		3050	-0.0018923							04/21/2004	1538
LCS		M351	0.51764920		0.500		103.5	%	86-110	04/21/2004	1545
SB		M383D	1.84454417		2.04		90.4	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.51350672		0.500	0.06803660	89.1	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50755590	0.51350672	0.500	0.06803660	87.9	%	75-125	04/21/2004	1612
							1.2	R	20		
CCV		M0388	0.99676523		1.00		99.7	%	90-110	04/21/2004	1621
CCB			-0.0024241							04/21/2004	1632
MB		3010	-0.0025587							04/21/2004	1635
LCS		M351	0.48653595		0.500		97.3	%	87-112	04/21/2004	1639
MS	224341-4	M351	0.47840595		0.500	0.01807910	92.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.48099242	0.47840595	0.500	0.01807910	92.6	%	75-125	04/21/2004	1653
							0.5	R	20		
CCV		M0388	0.98943828		1.00		98.9	%	90-110	04/21/2004	1717
CCB			-0.0028843							04/21/2004	1730
MB		3050	-0.0041127							04/21/2004	1751
LCS		M351	0.51279230		0.500		102.6	%	87-112	04/21/2004	1757
CCV		M0388	0.99650913		1.00		99.7	%	90-110	04/21/2004	1811
CCB			-0.0015159							04/21/2004	1825
MS	224358-9	M351	0.54652644		0.500	0.03920437	101.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.53937814	0.54652644	0.500	0.03920437	100.0	%	75-125	04/21/2004	1840
							1.3	R	20		
MB		3010	-0.0001724							04/21/2004	1904
CCV		M0388	0.97321258		1.00		97.3	%	90-110	04/21/2004	1907
CCB			-0.0015702							04/21/2004	1919
CCV		M0388	0.97709305		1.00		97.7	%	90-110	04/21/2004	2001
CCB			-0.0041845							04/21/2004	2015
CCV		M0388	0.97612759		1.00		97.6	%	90-110	04/21/2004	2051
CCB			-0.0024346							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99508405		2.00		99.8	%	90-110	04/21/2004	1202
ICV		M0368	0.98926333		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	0.95701559		1.00		95.7	%	90-110	04/21/2004	1233
ICB			-0.0031304							04/21/2004	1250
CCB			-0.0033410							04/21/2004	1302
ICB			-0.0033173							04/21/2004	1305
CCV		M0379	1.00612784		1.00		100.6	%	90-110	04/21/2004	1314
CCB			-0.0032272							04/21/2004	1327
MB		3010	-0.0032886							04/21/2004	1331
LCS		M351	0.51495568		0.500		103.0	%	88-110	04/21/2004	1337
MS	224368-1	M351	1.82511218		0.500	1.36602576	91.8	%	75-125	04/21/2004	1351
MSD	224368-1	M351	1.79795034	1.82511218	0.500	1.36602576	86.4	%	75-125	04/21/2004	1356
							1.5	R	20		
CCV		M0388	1.00458088		1.00		100.5	%	90-110	04/21/2004	1412
CCB			-0.0031803							04/21/2004	1426
CCB			-0.0030519							04/21/2004	1445
CCV		M0388	0.98589260		1.00		98.6	%	90-110	04/21/2004	1521
CCB			-0.0031247							04/21/2004	1535
MB		3050	-0.0031397							04/21/2004	1538
LCS		M351	0.52260399		0.500		104.5	%	88-110	04/21/2004	1545
SB		M383D	5.27771348		5.68		92.9	%	80-120	04/21/2004	1550
MS	224346-4	M351	2.06111198		0.500	1.66701726	78.8	%	75-125	04/21/2004	1606
MSD	224346-4	M351	2.11723121	2.06111198	0.500	1.66701726	90.0	%	75-125	04/21/2004	1612
							2.7	R	20		
CCV		M0388	1.00419374		1.00		100.4	%	90-110	04/21/2004	1621
CCB			-0.0030011							04/21/2004	1632
MB		3010	-0.0030321							04/21/2004	1635
LCS		M351	0.48776811		0.500		97.6	%	88-110	04/21/2004	1639
MS	224341-4	M351	0.97391567		0.500	0.48964812	96.9	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.96026200	0.97391567	0.500	0.48964812	94.1	%	75-125	04/21/2004	1653
							1.4	R	20		
CCV		M0388	0.99544542		1.00		99.5	%	90-110	04/21/2004	1717
CCB			-0.0029037							04/21/2004	1730
MB		3050	-0.0029811							04/21/2004	1751
LCS		M351	0.53085524		0.500		106.2	%	88-110	04/21/2004	1757
CCV		M0388	0.99631635		1.00		99.6	%	90-110	04/21/2004	1811
CCB			-0.0030472							04/21/2004	1825
MS	224358-9	M351	0.59190575		0.500	0.07460893	103.5	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.58333378	0.59190575	0.500	0.07460893	101.7	%	75-125	04/21/2004	1840
							1.5	R	20		
MB		3010	-0.0028507							04/21/2004	1904
CCV		M0388	0.99366907		1.00		99.4	%	90-110	04/21/2004	1907
CCB			-0.0030583							04/21/2004	1919
CCV		M0388	0.98284938		1.00		98.3	%	90-110	04/21/2004	2001
CCB			-0.0033478							04/21/2004	2015
CCV		M0388	0.96853671		1.00		96.9	%	90-110	04/21/2004	2051
CCB			-0.0031842							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00063652		2.00		100.0	%	90-110	04/21/2004	1202
ICV		M0368	0.98932728		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	1.00334628		1.00		100.3	%	90-110	04/21/2004	1233
ICB			-0.0034612							04/21/2004	1250
CCB			-0.0026612							04/21/2004	1302
ICB			-0.0034226							04/21/2004	1305
CCV		M0379	1.01701475		1.00		101.7	%	90-110	04/21/2004	1314
CCB			-0.0030884							04/21/2004	1327
MB		3010	-0.0032762							04/21/2004	1331
LCS		M351	0.52160979		0.500		104.3	%	90-112	04/21/2004	1337
MS	224368-1	M351	0.48281860		0.500	0.01848639	92.9	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.47641730	0.48281860	0.500	0.01848639	91.6	%	75-125	04/21/2004	1356
							1.3	R	20		
CCV		M0388	1.01567598		1.00		101.6	%	90-110	04/21/2004	1412
CCB			-0.0027367							04/21/2004	1426
CCB			-0.0032287							04/21/2004	1445
CCV		M0388	0.99478573		1.00		99.5	%	90-110	04/21/2004	1521
CCB			-0.0033089							04/21/2004	1535
MB		3050	-0.0028518							04/21/2004	1538
LCS		M351	0.50350019		0.500		100.7	%	89-110	04/21/2004	1545
SB		M383D	1.76553579		1.89		93.4	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.50737458		0.500	0.06388551	88.7	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.50627554	0.50737458	0.500	0.06388551	88.5	%	75-125	04/21/2004	1612
							0.2	R	20		
CCV		M0388	1.01194469		1.00		101.2	%	90-110	04/21/2004	1621
CCB			-0.0021951							04/21/2004	1632
MB		3010	-0.0024640							04/21/2004	1635
LCS		M351	0.49409386		0.500		98.8	%	90-112	04/21/2004	1639
MS	224341-4	M351	0.47262722		0.500	0.00698344	93.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.47555765	0.47262722	0.500	0.00698344	93.7	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	1.01218399		1.00		101.2	%	90-110	04/21/2004	1717
CCB			-0.0027875							04/21/2004	1730
MB		3050	-0.0024760							04/21/2004	1751
LCS		M351	0.51757156		0.500		103.5	%	90-112	04/21/2004	1757
CCV		M0388	1.01115293		1.00		101.1	%	90-110	04/21/2004	1811
CCB			-0.0035263							04/21/2004	1825
MS	224358-9	M351	0.55592071		0.500	0.04437544	102.3	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.54925465	0.55592071	0.500	0.04437544	101.0	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0025530							04/21/2004	1904
CCV		M0388	0.99489127		1.00		99.5	%	90-110	04/21/2004	1907
CCB			-0.0028251							04/21/2004	1919
CCV		M0388	0.98675462		1.00		98.7	%	90-110	04/21/2004	2001
CCB			-0.0031815							04/21/2004	2015
CCV		M0388	0.96793545		1.00		96.8	%	90-110	04/21/2004	2051
CCB			-0.0030340							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00789374		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.98930884		1.00		98.9	%	90-110	04/21/2004	1217
ICV		M0380	0.98435923		1.00		98.4	%	90-110	04/21/2004	1233
ICB			0.00341046							04/21/2004	1250
CCB			-0.0005201							04/21/2004	1302
ICB			-0.0054346							04/21/2004	1305
CCV		M0379	1.01052139		1.00		101.1	%	90-110	04/21/2004	1314
CCB			0.00542715							04/21/2004	1327
MB		3010	0.00349215							04/21/2004	1331
LCS		M351	0.51582176		0.500		103.2	%	82-111	04/21/2004	1337
MS	224368-1	M351	0.56914270		0.500	0.04329007	105.2	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.55823850	0.56914270	0.500	0.04329007	103.0	%	75-125	04/21/2004	1356
							1.9	R	20		
CCV		M0388	1.01064762		1.00		101.1	%	90-110	04/21/2004	1412
CCB			-0.0018298							04/21/2004	1426
CCB			-0.0040831							04/21/2004	1445
CCV		M0388	0.99852440		1.00		99.9	%	90-110	04/21/2004	1521
CCB			0.00398880							04/21/2004	1535
MB		3050	-0.0018296							04/21/2004	1538
LCS		M351	0.50433565		0.500		100.9	%	80-110	04/21/2004	1545
SB		M383D	0.96900302		0.996		97.3	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.47015590		0.500	-0.0172731	97.5	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.47134289	0.47015590	0.500	-0.0172731	97.7	%	75-125	04/21/2004	1612
							0.3	R	20		
CCV		M0388	1.02854925		1.00		102.9	%	90-110	04/21/2004	1621
CCB			0.00664351							04/21/2004	1632
MB		3010	-0.0006600							04/21/2004	1635
LCS		M351	0.48398730		0.500		96.8	%	82-111	04/21/2004	1639
MS	224341-4	M351	0.55331423		0.500	0.03152910	104.4	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.55805319	0.55331423	0.500	0.03152910	105.3	%	75-125	04/21/2004	1653
							0.9	R	20		
CCV		M0388	0.95425891		1.00		95.4	%	90-110	04/21/2004	1717
CCB			-0.0007683							04/21/2004	1730
MB		3050	0.00069773							04/21/2004	1751
LCS		M351	0.48263814		0.500		96.5	%	82-111	04/21/2004	1757
CCV		M0388	0.97980793		1.00		98.0	%	90-110	04/21/2004	1811
CCB			-0.0033974							04/21/2004	1825
MS	224358-9	M351	0.50241517		0.500	-0.0119756	102.9	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.50873253	0.50241517	0.500	-0.0119756	104.1	%	75-125	04/21/2004	1840
							1.2	R	20		
MB		3010	-0.0065146							04/21/2004	1904
CCV		M0388	0.99718366		1.00		99.7	%	90-110	04/21/2004	1907
CCB			0.00340628							04/21/2004	1919
CCV		M0388	1.01045708		1.00		101.0	%	90-110	04/21/2004	2001
CCB			-0.0026318							04/21/2004	2015
CCV		M0388	0.99305601		1.00		99.3	%	90-110	04/21/2004	2051
CCB			-0.0039853							04/21/2004	2105

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.00233983		1.0		100.2	%	90-110	04/21/2004	1202
ICV		M0369	0.99039974		1.00		99.0	%	90-110	04/21/2004	1222
ICB			-0.0009610							04/21/2004	1250
CCB			-0.0004665							04/21/2004	1302
ICB			-0.0017360							04/21/2004	1305
CCV		M0379	0.50566997		0.50		101.1	%	90-110	04/21/2004	1314
CCB			-0.0018862							04/21/2004	1327
MB		3010	-0.0011878							04/21/2004	1331
LCS		M351	0.25751463		0.25		103.0	%	87-110	04/21/2004	1337
MS	224368-1	M351	0.25132622		0.25	-0.0050069	102.5	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.25009277	0.25132622	0.25	-0.0050069	102.0	%	75-125	04/21/2004	1356
							0.5	R	20		
CCV		M0388	0.50809940		0.50		101.6	%	90-110	04/21/2004	1412
CCB			-0.0009420							04/21/2004	1426
CCB			-0.0017608							04/21/2004	1445
CCV		M0388	0.50001695		0.50		100.0	%	90-110	04/21/2004	1521
CCB			-0.0019475							04/21/2004	1535
MB		3050	-0.0019559							04/21/2004	1538
LCS		M351	0.24876006		0.25		99.5	%	81-110	04/21/2004	1545
SB		M383D	1.04203460		0.953		109.3	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.23920034		0.25	-0.0049577	97.7	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.24041576	0.23920034	0.25	-0.0049577	98.1	%	75-125	04/21/2004	1612
							0.5	R	20		
CCV		M0388	0.50904850		0.50		101.8	%	90-110	04/21/2004	1621
CCB			-0.0015870							04/21/2004	1632
MB		3010	-0.0018040							04/21/2004	1635
LCS		M351	0.24602567		0.25		98.4	%	87-110	04/21/2004	1639
MS	224341-4	M351	0.24751042		0.25	-0.0051872	101.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.24554174	0.24751042	0.25	-0.0051872	100.3	%	75-125	04/21/2004	1653
							0.8	R	20		
CCV		M0388	0.50795639		0.50		101.6	%	90-110	04/21/2004	1717
CCB			-0.0010042							04/21/2004	1730
MB		3050	-0.0021778							04/21/2004	1751
LCS		M351	0.25260300		0.25		101.0	%	87-110	04/21/2004	1757
CCV		M0388	0.50139941		0.50		100.3	%	90-110	04/21/2004	1811
CCB			-0.0018077							04/21/2004	1825
MS	224358-9	M351	0.25679236		0.25	-0.0015276	103.3	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.25502657	0.25679236	0.25	-0.0015276	102.6	%	75-125	04/21/2004	1840
							0.7	R	20		
MB		3010	-0.0016725							04/21/2004	1904
CCV		M0388	0.49681970		0.50		99.4	%	90-110	04/21/2004	1907
CCB			-0.0013804							04/21/2004	1919
CCV		M0388	0.50236777		0.50		100.5	%	90-110	04/21/2004	2001
CCB			-0.0016716							04/21/2004	2015
CCV		M0388	0.49697360		0.50		99.4	%	90-110	04/21/2004	2051
CCB			-0.0010169							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.10496335		2.00		105.2	%	90-110	04/23/2004	1349
RS		M0371	2.05803025		2.00		102.9	%	90-110	04/23/2004	1359
ICV		M0374	1.00534008		1.00		100.5	%	90-110	04/23/2004	1422
CCV		M0388	2.07370401		2.00		103.7	%	90-110	04/23/2004	1448
CCB			-0.0047198							04/23/2004	1501
CCV		M0388	2.05825955		2.00		102.9	%	90-110	04/23/2004	1607
CCB			0.01743591							04/23/2004	1612
MB		3010	-0.0124011							04/23/2004	1623
LCS		M351	1.03351289		1.00		103.4	%	83-118	04/23/2004	1627
CCB			-0.0185738							04/23/2004	1632
MB		3010	-0.0153073							04/23/2004	1648
MB		3010.	-0.0151764							04/23/2004	1651
LCS		M351	1.03906767		1.00		103.9	%	83-118	04/23/2004	1655
CCV		M0388	2.01508569		2.00		100.8	%	90-110	04/23/2004	1712
CCB			-0.0116118							04/23/2004	1726
MS	224389-3	M351	0.99590767		1.00	-0.0369076	103.3	%	75-125	04/23/2004	1740
MSD	224389-3	M351	1.01395660	0.99590767	1.00	-0.0369076	105.1	%	75-125	04/23/2004	1745
							1.8	R	20		
CCV		M0388	2.03318442		2.00		101.7	%	90-110	04/23/2004	1813
CCB			-0.0110304							04/23/2004	1826
CCV		M0388	2.00539274		2.00		100.3	%	90-110	04/23/2004	1909
CCB			-0.0120060							04/23/2004	1923
MB		3010.	-0.0161856							04/23/2004	1936
LCS		M351	1.02953109		1.00		103.0	%	83-118	04/23/2004	1940
MS	224400-2	M351	1.05128135		1.00	-0.0184096	107.0	%	75-125	04/23/2004	1953
MSD	224400-2	M351	1.04633632	1.05128135	1.00	-0.0184096	106.5	%	75-125	04/23/2004	1959
							0.5	R	20		
CCV		M0388	2.05328924		2.00		102.7	%	90-110	04/23/2004	2013
CCB			-0.0094764							04/23/2004	2026
MB		3010	-0.0118164							04/23/2004	2029
LCS		M351	1.04182693		1.00		104.2	%	83-118	04/23/2004	2033
MB		3010	-0.0153187							04/23/2004	2053
LCS		M351	0.96516855		1.00		96.5	%	83-118	04/23/2004	2059
B			-0.0199158							04/23/2004	2104
CCV		M0388	2.02877114		2.00		101.4	%	90-110	04/23/2004	2122
CCB			-0.0105243							04/23/2004	2136
MD	224404-6		-0.0128982			-0.0151623	0.0022641	A	0.0200000	04/23/2004	2142
MS	224404-6	M351	1.02677486		1.00	-0.0151623	104.2	%	75-125	04/23/2004	2149
MSD	224404-6	M351	1.00908365	1.02677486	1.00	-0.0151623	102.4	%	75-125	04/23/2004	2154
							1.7	R	20		
MB		3010	-0.0067999							04/23/2004	2204
LCS		M351	1.02010687		1.00		102.0	%	83-118	04/23/2004	2211
CCV		M0388	2.07336790		2.00		103.7	%	90-110	04/23/2004	2228
CCB			-0.0073217							04/23/2004	2241
MS	224401-1	M351	1.01030912		1.00	-0.0348454	104.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	1.01227105	1.01030912	1.00	-0.0348454	104.7	%	75-125	04/23/2004	2253
							0.2	R	20		
CCV		M0388	2.00528245		2.00		100.3	%	90-110	04/23/2004	2322
CCB			-0.0020157							04/23/2004	2333
CCV		M0388	1.96534010		2.00		98.3	%	90-110	04/24/2004	0014
CCB			-0.0107983							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00735936		2.00		100.4	%	90-110	04/21/2004	1202
ICV		M0368	0.95703485		1.00		95.7	%	90-110	04/21/2004	1217
ICV		M0380	0.96962440		1.00		97.0	%	90-110	04/21/2004	1233
ICB			-0.0028295							04/21/2004	1250
CCB			-0.0026708							04/21/2004	1302
ICB			-0.0026616							04/21/2004	1305
CCV		M0379	0.98766245		1.00		98.8	%	90-110	04/21/2004	1314
CCB			-0.0026240							04/21/2004	1327
MB		3010	-0.0034663							04/21/2004	1331
LCS		M351	0.50458313		0.500		100.9	%	89-110	04/21/2004	1337
MS	224368-1	M351	0.49793346		0.500	-0.0021595	100.0	%	75-125	04/21/2004	1351
MSD	224368-1	M351	0.49411083	0.49793346	0.500	-0.0021595	99.3	%	75-125	04/21/2004	1356
							0.8	R	20		
CCV		M0388	0.99027984		1.00		99.0	%	90-110	04/21/2004	1412
CCB			-0.0031341							04/21/2004	1426
CCB			-0.0021960							04/21/2004	1445
CCV		M0388	0.97392056		1.00		97.4	%	90-110	04/21/2004	1521
CCB			-0.0026632							04/21/2004	1535
MB		3050	-0.0029951							04/21/2004	1538
LCS		M351	0.48742509		0.500		97.5	%	87-110	04/21/2004	1545
SB		M383D	1.92735657		2.04		94.5	%	80-120	04/21/2004	1550
MS	224346-4	M351	0.76154227		0.500	0.26049419	100.2	%	75-125	04/21/2004	1606
MSD	224346-4	M351	0.76399553	0.76154227	0.500	0.26049419	100.7	%	75-125	04/21/2004	1612
							0.3	R	20		
CCV		M0388	0.99641122		1.00		99.6	%	90-110	04/21/2004	1621
CCB			-0.0029224							04/21/2004	1632
MB		3010	-0.0027956							04/21/2004	1635
LCS		M351	0.48199993		0.500		96.4	%	89-110	04/21/2004	1639
MS	224341-4	M351	0.50530796		0.500	-0.0004248	101.1	%	75-125	04/21/2004	1647
MSD	224341-4	M351	0.50823958	0.50530796	0.500	-0.0004248	101.7	%	75-125	04/21/2004	1653
							0.6	R	20		
CCV		M0388	0.98841446		1.00		98.8	%	90-110	04/21/2004	1717
CCB			-0.0027761							04/21/2004	1730
MB		3050	-0.0030550							04/21/2004	1751
LCS		M351	0.49446648		0.500		98.9	%	89-110	04/21/2004	1757
CCV		M0388	0.98555846		1.00		98.6	%	90-110	04/21/2004	1811
CCB			-0.0022942							04/21/2004	1825
MS	224358-9	M351	0.61042866		0.500	0.09060581	104.0	%	75-125	04/21/2004	1835
MSD	224358-9	M351	0.60024964	0.61042866	0.500	0.09060581	101.9	%	75-125	04/21/2004	1840
							1.7	R	20		
MB		3010	-0.0025056							04/21/2004	1904
CCV		M0388	0.96969744		1.00		97.0	%	90-110	04/21/2004	1907
CCB			-0.0026115							04/21/2004	1919
CCV		M0388	0.97245240		1.00		97.2	%	90-110	04/21/2004	2001
CCB			-0.0030123							04/21/2004	2015
CCV		M0388	0.95999915		1.00		96.0	%	90-110	04/21/2004	2051
CCB			-0.0030166							04/21/2004	2105

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224349 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92795 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0380	0.98754865		1.00		98.8	%	90-110	04/21/2004	1233
CCV		M0379	1.00248947		1.00		100.2	%	90-110	04/21/2004	1314
CCB			-0.0065085							04/21/2004	1327
MB		3010	-0.0067165							04/21/2004	1331
LCS		M351	0.50050317		0.500		100.1	%	86-110	04/21/2004	1337
CCV		M0388	1.00201745		1.00		100.2	%	90-110	04/21/2004	1412
CCB			-0.0046401							04/21/2004	1426
CCV		M0388	0.97397943		1.00		97.4	%	90-110	04/21/2004	1521
CCB			-0.0055630							04/21/2004	1527
CCV		M0388	1.00551893		1.00		100.6	%	90-110	04/21/2004	1717
CCB			0.00044058							04/21/2004	1730

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Report

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D200143

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

April 30, 2004

STL LOT NUMBER: **I4D200143**
PO/CONTRACT: 224295,224349,224322

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the five samples received under chain of custody by Severn Trent Laboratories (STL) on April 17, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D200143

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224295-1 04/14/04 16:10 001				
Cadmium	50.3	1.0	ug/L	SW846 6020
Antimony	2.9	1.0	ug/L	SW846 6020
Thallium	1.3	1.0	ug/L	SW846 6020
224295-2 04/14/04 16:30 002				
Cadmium	67.3	1.0	ug/L	SW846 6020
Antimony	16.0	1.0	ug/L	SW846 6020
224295-3 04/14/04 16:30 003				
Cadmium	102	1.0	ug/L	SW846 6020
Antimony	24.1	1.0	ug/L	SW846 6020
224349-1 04/16/04 15:45 004				
Cadmium	55.1	1.0	ug/L	SW846 6020
Antimony	1.4	1.0	ug/L	SW846 6020
Thallium	1.0	1.0	ug/L	SW846 6020
224322-1 04/15/04 15:45 005				
Cadmium	104	1.0	ug/L	SW846 6020
Antimony	7.1	1.0	ug/L	SW846 6020
Thallium	3.6	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D200143

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D200143

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GEG11	001	224295-1	04/14/04	16:10
GEG18	002	224295-2	04/14/04	16:30
GEG2A	003	224295-3	04/14/04	16:30
GEG2D	004	224349-1	04/16/04	15:45
GEG2G	005	224322-1	04/15/04	15:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D200143

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
002	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
003	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
004	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
005	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049

STL CORPUS CHRISTI

Client Sample ID: 224295-1

TOTAL Metals

Lot-Sample #...: I4D200143-001 Matrix.....: WATER
Date Sampled...: 04/14/04 16:10 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**50.3**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG111AA**
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Antimony	**2.9**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG111AC**
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Thallium	**1.3**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG111AD**
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG111AE
		Dilution Factor: 1		Analysis Time..: 11:51	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224295-2

TOTAL Metals

Lot-Sample #...: I4D200143-002 **Matrix.....:** WATER
Date Sampled...: 04/14/04 16:30 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**67.3**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG181AA**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Antimony	**16.0**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG181AC**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEG181AD
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG181AE
		Dilution Factor: 1		Analysis Time..: 11:56	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224295-3

TOTAL Metals

Lot-Sample #...: I4D200143-003 Matrix.....: WATER
Date Sampled...: 04/14/04 16:30 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	102	1.0	ug/L	SW846 6020	04/22/04	GEG2A1AA
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Antimony	24.1	1.0	ug/L	SW846 6020	04/22/04	GEG2A1AC
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEG2A1AD
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2A1AE
		Dilution Factor: 1		Analysis Time..: 12:02	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224349-1

TOTAL Metals

Lot-Sample #...: I4D200143-004 Matrix.....: WATER
Date Sampled...: 04/16/04 15:45 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	55.1	1.0	ug/L	SW846 6020	04/22/04	GEG2D1AA
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Antimony	1.4	1.0	ug/L	SW846 6020	04/22/04	GEG2D1AC
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Thallium	1.0	1.0	ug/L	SW846 6020	04/22/04	GEG2D1AD
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2D1AE
		Dilution Factor: 1		Analysis Time..: 12:07	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224322-1

TOTAL Metals

Lot-Sample #...: I4D200143-005 Matrix.....: WATER
Date Sampled...: 04/15/04 15:45 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**104**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AA**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Antimony	**7.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AC**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Thallium	**3.6**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AD**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2G1AE
		Dilution Factor: 1		Analysis Time..: 12:12	MS Run #.....: 4118049	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D220000-247 **Prep Batch #...:** 4113247						
Antimony	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AC
		Dilution Factor: 1				
		Analysis Time..: 17:49				
Cadmium	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AA
		Dilution Factor: 1				
		Analysis Time..: 17:49				
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AD
		Dilution Factor: 1				
		Analysis Time..: 17:49				
MB Lot-Sample #: I4D270000-144 **Prep Batch #...:** 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GE0RW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:41				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D220000-247 **Prep Batch #...:** 4113247					
Cadmium	94	(80 - 120)	SW846 6020	04/22/04	GEML71AE
		Dilution Factor: 1	Analysis Time..: 17:55		
Antimony	93	(80 - 120)	SW846 6020	04/22/04	GEML71AF
		Dilution Factor: 1	Analysis Time..: 17:55		
Thallium	97	(80 - 120)	SW846 6020	04/22/04	GEML71AG
		Dilution Factor: 1	Analysis Time..: 17:55		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144					
Bismuth	102	(80 - 120)	SW846 6010B	04/26-04/28/04	GE0RW1AC
		Dilution Factor: 1	Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D220000-247 **Prep Batch #...:** 4113247							
Cadmium	50.0	46.9	ug/L	94	SW846 6020	04/22/04	GEML71AE
			Dilution Factor: 1		Analysis Time..: 17:55		
Antimony	50.0	46.3	ug/L	93	SW846 6020	04/22/04	GEML71AF
			Dilution Factor: 1		Analysis Time..: 17:55		
Thallium	50.0	48.6	ug/L	97	SW846 6020	04/22/04	GEML71AG
			Dilution Factor: 1		Analysis Time..: 17:55		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	04/26-04/28/04	GE0RW1AC
			Dilution Factor: 1		Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4113247							
Antimony	91	(80 - 120)			SW846 6020	04/22/04	GEG2G1AH
	93	(80 - 120)	2.1	(0-20)	SW846 6020	04/22/04	GEG2G1AJ
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
Cadmium	87	(80 - 120)			SW846 6020	04/22/04	GEG2G1AF
	83	(80 - 120)	1.3	(0-20)	SW846 6020	04/22/04	GEG2G1AG
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
Thallium	93	(80 - 120)			SW846 6020	04/22/04	GEG2G1AK
	97	(80 - 120)	3.5	(0-20)	SW846 6020	04/22/04	GEG2G1AL
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144							
Bismuth	100	(75 - 125)			SW846 6010B	04/26-04/28/04	GEG2G1AM
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/26-04/28/04	GEG2G1AN
		Dilution Factor: 1					
		Analysis Time..: 12:27					
		MS Run #.....: 4118049					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4113247									
Antimony									
	7.1	50.0	52.4	ug/L	91		SW846 6020	04/22/04	GEG2G1AH
	7.1	50.0	53.5	ug/L	93	2.1	SW846 6020	04/22/04	GEG2G1AJ
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
Cadmium									
	104	50.0	148	ug/L	87		SW846 6020	04/22/04	GEG2G1AF
	104	50.0	146	ug/L	83	1.3	SW846 6020	04/22/04	GEG2G1AG
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
Thallium									
	3.6	50.0	50.1	ug/L	93		SW846 6020	04/22/04	GEG2G1AK
	3.6	50.0	51.8	ug/L	97	3.5	SW846 6020	04/22/04	GEG2G1AL
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144									
Bismuth									
	ND	0.500	0.502	mg/L	100		SW846 6010B	04/26-04/28/04	GEG2G1AM
	ND	0.500	0.494	mg/L	99	1.6	SW846 6010B	04/26-04/28/04	GEG2G1AN
			Dilution Factor: 1						
			Analysis Time..: 12:27						
			MS Run #.....: 4118049						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4D200143

RECEIVED BY: [signature]

COC NUMBER: _____

DATE/TIME RECEIVED: 4-17-04 0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4-17-04 0850

All In 1 Lot

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: LT

LOG-IN REVIEWED: CC

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☒ YES ☐ NO — Custody Seal Signed/Dated: ☐ YES ☐ NO

Custody Seal Present: ☒ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☐ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **IR THERMOMETER #:** 05

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ — OK to analyze samples: ☒ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☒ YES **VERIFIED BY:** CC

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☒ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: CC

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 4/30/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

No. 22474

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.: I4D 200143

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (56, Cd, Tl)	6010 (Bi)	REMARKS/PRECAUTIONS
	224295-1	4/14/04	16:10	Water	P500	HNO3		X	X	Attn: Neal Salcher
	224295-2	↓	16:30	↓	↓	↓		X	X	
	224295-3	↓	16:30	↓	↓	↓		X	X	ASARCO Pricing
										2& 4-17-04cc

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4-17-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL** STL Austin

No. 22476

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (Sb, Cd, Tl)	6010 (Ti)	REMARKS/PRECAUTIONS
	224349-1	4/16/04	15:45	Water	P500	HNO3		X	X	Attn: Neal Salcher ASARCO Pricing 2nd 4-17-04 cc

LAB JOB NO.

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 16:16	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4-17-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL** STL Austin

No. 22475

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: ICPMS 6020 (56, Cd, Ti); 6010 (Bi)							REMARKS/PRECAUTIONS
	224322-1	4/15/04	15:45	Water	PSTU	1HNO3	1	X	X						Attn: Neal Salcher ASARCO Pricing 2nd 4-17-04 cc

LAB JOB NO.

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME: 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4-17-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/06/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/06/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Encycle RCRA Closure

Project Location Encycle, Corpus Christi, TX

Laboratory STL

Project Manager Ken Brandner

Sampler(s)/Affiliation Marc Buentello/ARCADIS

11.6°C Just sampled 22349

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cyanide (1 pt. poly w/ NaOH)	Sb, As, Ba, Be, Cd, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 pt. poly / HNO3 preservative)					Remarks	Total
Bin M	L	4/16/04 1545		1	2					Need low detection limits	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 3

Relinquished by: [signature]	Organization: ARCADIS	Date 4/16/04	Time 1604	Seal Intact?	
Received by: [signature]	Organization: STL-CC	Date 4/16/04	Time 1604	Yes No (N/A)	
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A	

Special Instructions/Remarks: Invoice to Rich Marcus for Encycle RCRA Closure
Results to Rich Marcus and Ken Brandner
Normal turnaround time, need low detection limits

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274886 **Report Date:** 06/09/04
Project ID: Encycle RCRA Closure
Sample Name: Bin M
Sample Matrix: water
Date Received: 06/01/2004 **Time:** 16:20
Date Sampled: 06/01/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/02/04	3015	---	---	---	---	---
Cadmium/ICP	0.0036	mg/L	0.002	<0.002	06/07/04	6010 & 200.7	---	3.02	104.15	96.4	97.59
Lead/ICP	0.03	mg/L	0.01	<0.01	06/07/04	6010 & 200.7	---	3.37	98.67	99.72	71.94

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No.: _____

CHAIN-OF-CUSTODY RECORD

Page ___ of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: K. Brandner

Sampler(s)/Affiliation: A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cadmium, Lead 1 pt. poly w/ HNO3		274.7				Remarks	Total
Bin M	L	06-01-2004 16:00		1						Require low detection limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

						Seal Intact?
Relinquished by:		Organization: ARCADIS	Date 06/01/2004	Time 16:20		
Received by: T. Escamilla		Organization: ASI	Date 06/01/2004	Time 16:20		Yes No (N/A)
Relinquished by:		Organization:	Date / /	Time		Seal Intact?
Received by: Flynn		Organization: ASI	Date 6/2/04	Time 0835		Yes No N/A

Special Instructions/Remarks:

Require Five (5) Day Turnaround.

T = 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ ☐ Lab Courier ☐ Other _____

SPECIFY SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278197 **Report Date:** 09/27/04
Project ID: Encycle RCRA Closure
Sample Name: Bin M
Sample Matrix: water
Date Received: 09/23/2004 **Time:** 12:25
Date Sampled: 09/23/2004 **Time:** 12:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/24/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/26/04	6010 & 200.7	J	2.69	81.91	97.74	87.42

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 278197 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: Encycle RCRA Closure
Sample Name: Bin M

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Lead/ICP	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

www.analysysinc.com

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name: ARCADIS / ENSYCLE
Address: 711 N. CARANCAHUA
City: CC State: TX Zip: 78475
ATTN: KEN BRENNER / RICK MORRIS
Phone: 883 1353 Fax: 883 7565

Bill To (if different):

Company Name: ENSYCLE RUSK HOUSE
Address:
City: State: Zip:
ATTN: RICK MORRIS
Phone: Fax:

Project Name/PO#: Sampler

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: TPH LEAD										RUSH TAT (Pre-Scheduled)	Standard TAT
BKM	9-23-04	1220	1	X		278197	X	X											X												

Special Instructions (such as special QC requirements, lists, methods, etc...): NEED 3 day TURN AROUND

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0°C

Sample Relinquished By				Sample Received By				YES	✓		
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time				
J Clements	ARCADIS	9-23-04	1225	L Stowman	ASI	9-23-04	1225	NO			
				L Stowman	ASI	9/24/04	0845				

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN TRENT STL

RECEIVED
MAY 10 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224322

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/06/2004

Olga Verónica McDonald
Signature

5/6/04
Date

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 47

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/06/2004

Job Number.: 224322
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224322-1	BIN N	Water	04/15/2004	15:45	04/15/2004	16:04

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224322 Date: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN N
Date Sampled.....: 04/15/2004
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 224322-1
Date Received.....: 04/15/2004
Time Received.....: 16:04

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/20/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/20/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	04/19/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Copper (Cu), Total	0.22	0.01	mg/L	04/19/04	jem
SW-846 6010B	Lead (Pb), Total	0.57	0.01	mg/L	04/19/04	jem
SW-846 6010B	Manganese (Mn), Total	0.02	0.01	mg/L	04/19/04	jem
SW-846 6010B	Nickel (Ni), Total	0.06	0.01	mg/L	04/19/04	jem
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/19/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Zinc (Zn), Total	0.76	0.01	mg/L	04/23/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/16/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92723 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042004HG	0.00485		0.00500		97.0	%	90-110	04/20/2004	1533
ICB			-0.000173							04/20/2004	1537
LCS		M042004LG	0.00537		0.0050		107.4	%	85-115	04/20/2004	1540
MB			0.000193							04/20/2004	1544
MS	224198-3	M042004HG	0.00581		0.00500	0.000279	110.6	%	75-125	04/20/2004	1601
MSD	224198-3	M042004HG	0.00570	0.00581	0.00500	0.000279	108.4	%	75-125	04/20/2004	1602
							1.9	R	20		
CCV		M042004HG	0.00505		0.00500		101.0	%	80-120	04/20/2004	1606
CCB			-0.000096							04/20/2004	1609
CCV		M042004HG	0.00485		0.00500		97.0	%	80-120	04/20/2004	1628
CCB			-0.000180							04/20/2004	1630
LCS		M042004LG	0.00481		0.0050		96.2	%	85-115	04/20/2004	1633
MB			-0.000085							04/20/2004	1635
MS	224297-3	M042004HG	0.00530		0.00500	0.000134	103.3	%	75-125	04/20/2004	1655
MSD	224297-3	M042004HG	0.00556	0.00530	0.00500	0.000134	108.5	%	75-125	04/20/2004	1657
							4.8	R	20		
CCV		M042004HG	0.00482		0.00500		96.4	%	80-120	04/20/2004	1707
CCB			-0.000097							04/20/2004	1712
CCV		M042004HG	0.00469		0.00500		93.8	%	80-120	04/20/2004	1731
CCB			-0.000082							04/20/2004	1735
LCS		M042004LG	0.00512		0.0050		102.4	%	85-115	04/20/2004	1736
MB			-0.000109							04/20/2004	1738
CCV		M042004HG	0.00478		0.00500		95.6	%	80-120	04/20/2004	1757
CCB			-0.000184							04/20/2004	1759
MS	224278-5	M042004HG	0.00488		0.00500	0.000297	91.7	%	75-125	04/20/2004	1809
MSD	224278-5	M042004HG	0.00486	0.00488	0.00500	0.000297	91.3	%	75-125	04/20/2004	1810
							0.4	R	20		
CCV		M042004HG	0.00495		0.00500		99.0	%	80-120	04/20/2004	1826
CCB			0.000084							04/20/2004	1828

Test Method.....: EPA 335.3 Batch.....: 92716 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		042004	-0.0016							04/20/2004	1530
CCV		CN40420E	0.4181		0.4000		104.5	%	90-110	04/20/2004	1534
MB		042004	0.0015							04/20/2004	1538
LCS		CN40420P	0.0420		0.05000		84.0	%	69-112	04/20/2004	1543
LCS		CN40420Q	0.0841		0.1000		84.1	%	69-112	04/20/2004	1547
LCS		CN40420R	0.1624		0.2000		81.2	%	69-112	04/20/2004	1551
MS	224323-1	CN40420S	0.0555		0.05000	-0.0015	114.0	%	75-125	04/20/2004	1604
MSD	224323-1	CN40420S	0.0586	0.0555	0.05000	-0.0015	120.2	%	75-125	04/20/2004	1608
							5.4	R	20		
CCB		042004	-0.0001							04/20/2004	1633
CCV		CN40420E	0.4100		0.4000		102.5	%	90-110	04/20/2004	1637

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98356269		2.00		99.2	%	90-110	04/19/2004	1041
ICV		M0368	0.97945018		1.00		97.9	%	90-110	04/19/2004	1055
ICV		M0380	1.02777019		1.00		102.8	%	90-110	04/19/2004	1110
ICB			-0.0036086							04/19/2004	1145
CCV		M0379	0.99866396		1.00		99.9	%	90-110	04/19/2004	1154
CCB			-0.0069632							04/19/2004	1206
MB		3051	-0.0056753							04/19/2004	1209
LCS		M351	0.50179495		0.500		100.4	%	85-110	04/19/2004	1213
MS	224244-1	M351	0.37007944		0.500	-0.1012864	94.3	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.42682230	0.37007944	0.500	-0.1012864	105.6	%	75-125	04/19/2004	1229
							14.2	R	20		
CCV		M0388	1.00618383		1.00		100.6	%	90-110	04/19/2004	1314
CCB			-0.0026955							04/19/2004	1326
MB		3050	-0.0020939							04/19/2004	1351
LCS		M351	0.50411707		0.500		100.8	%	85-110	04/19/2004	1357
SB		M383D	2.23472269		2.31		96.7	%	80-120	04/19/2004	1403
CCV		M0379	1.00708720		1.00		100.7	%	90-110	04/19/2004	1424
CCB			-0.0039702							04/19/2004	1432
CCV		M0388	1.00248684		1.00		100.2	%	90-110	04/19/2004	1510
CCB			-0.0065882							04/19/2004	1522
CCV		M0388	0.98190309		1.00		98.2	%	90-110	04/19/2004	1606
CCB			-0.0001412							04/19/2004	1617
MS	224341-1	M351	0.54532510		0.500	0.06198705	96.7	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.55867578	0.54532510	0.500	0.06198705	99.3	%	75-125	04/19/2004	1626
							2.4	R	20		
MB		3010	0.00132304							04/19/2004	1635
LCS		M351	0.50579087		0.500		101.2	%	85-110	04/19/2004	1642
CCV		M0388	0.98837127		1.00		98.8	%	90-110	04/19/2004	1709
CCB			-0.0019642							04/19/2004	1718
MS	224302-1	M351	0.54398065		0.500	0.00345774	108.1	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.54581787	0.54398065	0.500	0.00345774	108.5	%	75-125	04/19/2004	1736
							0.3	R	20		
CCV		M0388	0.98669459		1.00		98.7	%	90-110	04/19/2004	1806
CCB			-0.0031966							04/19/2004	1818
MB		3010	-0.0054483							04/19/2004	1852
CCV		M0388	0.98872866		1.00		98.9	%	90-110	04/19/2004	1859
CCB			-0.0038355							04/19/2004	1910
MB		3010.	-0.0051335							04/19/2004	1914
LCS		M351	0.51314174		0.500		102.6	%	85-110	04/19/2004	1917
MS	224309-7	M348	0.60733719		0.500	0.06712250	108.0	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.59687305	0.60733719	0.500	0.06712250	106.0	%	75-125	04/19/2004	1944
							1.7	R	20		
CCV		M0388	0.99279301		1.00		99.3	%	90-110	04/19/2004	2000
CCB			-0.0008612							04/19/2004	2012
MB		3051	-0.0040666							04/19/2004	2016
LCS		M351	0.44348248		0.500		88.7	%	85-110	04/19/2004	2019
MS	224133-1	M351	0.30135114		0.500	-0.1876650	97.8	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.29780091	0.30135114	0.500	-0.1876650	97.1	%	75-125	04/19/2004	2032
							1.2	R	20		
CCV		M0388	0.98515407		1.00		98.5	%	90-110	04/19/2004	2054
CCB			-0.0038156							04/19/2004	2100
MB		3050	-0.0034110							04/19/2004	2119
LCS		M351	0.50599212		0.500		101.2	%	85-110	04/19/2004	2126

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
SB		M383D	2.20772536		2.31		95.6	%	80-120	04/19/2004	2131
MS	224346-4	M351	0.50977564		0.500	0.03171022	95.6	%	75-125	04/19/2004	2146
CCV		M0388	0.99671603		1.00		99.7	%	90-110	04/19/2004	2201
CCB			-0.0029570							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.03673924		2.00		101.8	%	90-110	04/19/2004	1041
ICV		M0369	0.98274142		1.00		98.3	%	90-110	04/19/2004	1101
ICB			-0.0031938							04/19/2004	1145
CCV		M0379	1.03435819		1.00		103.4	%	90-110	04/19/2004	1154
CCB			-0.0032137							04/19/2004	1206
MB		3051	-0.0034570							04/19/2004	1209
LCS		M351	0.51892168		0.500		103.8	%	90-110	04/19/2004	1213
MS	224244-1	M351	0.44477587		0.500	0.00014550	88.9	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.52453447	0.44477587	0.500	0.00014550	104.9	%	75-125	04/19/2004	1229
							16.5	R	20		
CCV		M0388	1.03232617		1.00		103.2	%	90-110	04/19/2004	1314
CCB			-0.0035192							04/19/2004	1326
MB		3050	-0.0034103							04/19/2004	1351
LCS		M351	0.52411045		0.500		104.8	%	90-110	04/19/2004	1357
SB		M383D	9.06187715		10.00		90.6	%	80-120	04/19/2004	1403
CCV		M0379	1.02977244		1.00		103.0	%	90-110	04/19/2004	1424
CCB			-0.0034268							04/19/2004	1432
CCV		M0388	1.02904881		1.00		102.9	%	90-110	04/19/2004	1510
CCB			-0.0031208							04/19/2004	1522
CCV		M0388	0.99231934		1.00		99.2	%	90-110	04/19/2004	1606
CCB			-0.0033419							04/19/2004	1617
MS	224341-1	M351	1.73527242		0.500	1.15010123	117.0	%	75-125	04/19/2004	1621
MSD	224341-1	M351	1.72981483	1.73527242	0.500	1.15010123	115.9	%	75-125	04/19/2004	1626
							0.3	R	20		
MB		3010	-0.0031534							04/19/2004	1635
LCS		M351	0.51368883		0.500		102.7	%	90-110	04/19/2004	1642
CCV		M0388	1.00922439		1.00		100.9	%	90-110	04/19/2004	1709
CCB			-0.0033188							04/19/2004	1718
MS	224302-1	M351	0.58793533		0.500	0.07876573	101.8	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.58667559	0.58793533	0.500	0.07876573	101.6	%	75-125	04/19/2004	1736
							0.2	R	20		
CCV		M0388	1.00101557		1.00		100.1	%	90-110	04/19/2004	1806
CCB			-0.0035416							04/19/2004	1818
MB		3010	-0.0022012							04/19/2004	1852
CCV		M0388	0.99673106		1.00		99.7	%	90-110	04/19/2004	1859
CCB			-0.0033708							04/19/2004	1910
MB		3010.	-0.0024270							04/19/2004	1914
LCS		M351	0.54784045		0.500		109.6	%	90-110	04/19/2004	1917
MS	224309-7	M348	6.64969549		0.500	6.16391071	97.2	%	75-125	04/19/2004	1939
MSD	224309-7	M348	6.35057325	6.64969549	0.500	6.16391071	37.3	%	75-125	04/19/2004	1944
							4.6	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.00817427		1.00		100.8	%	90-110	04/19/2004	2000
CCB			-0.0033894							04/19/2004	2012
MB		3051	-0.0035829							04/19/2004	2016
LCS		M351	0.45478580		0.500		91.0	%	90-110	04/19/2004	2019
MS	224133-1	M351	0.44880035		0.500	0.00167680	89.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43758262	0.44880035	0.500	0.00167680	87.2	%	75-125	04/19/2004	2032
							2.5	R	20		
CCV		M0388	1.00220884		1.00		100.2	%	90-110	04/19/2004	2054
CCB			-0.0032359							04/19/2004	2100
MB		3050	-0.0036118							04/19/2004	2119
LCS		M351	0.50843617		0.500		101.7	%	90-110	04/19/2004	2126
SB		M383D	9.03727592		10.00		90.4	%	80-120	04/19/2004	2131
CCV		M0388	1.00314606		1.00		100.3	%	90-110	04/19/2004	2201
CCB			-0.0034443							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.03269196		2.00		101.6	%	90-110	04/19/2004	1041
ICV		M0368	1.01672522		1.00		101.7	%	90-110	04/19/2004	1055
ICV		M0380	1.03511118		1.00		103.5	%	90-110	04/19/2004	1110
ICB			-0.0031570							04/19/2004	1145
ICV		M368B	0.53344953		0.500		106.7	%	90-110	04/19/2004	1149
CCV		M0379	1.02553352		1.00		102.6	%	90-110	04/19/2004	1154
CCB			-0.0034118							04/19/2004	1206
MB		3051	-0.0037220							04/19/2004	1209
LCS		M351	0.52066826		0.500		104.1	%	90-110	04/19/2004	1213
MS	224244-1	M351	0.45378953		0.500	-0.0007957	90.9	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.53187932	0.45378953	0.500	-0.0007957	106.5	%	75-125	04/19/2004	1229
							15.8	R	20		
CCV		M0388	1.02723914		1.00		102.7	%	90-110	04/19/2004	1314
CCB			-0.0032936							04/19/2004	1326
MB		3050	-0.0035706							04/19/2004	1351
LCS		M351	0.51834856		0.500		103.7	%	90-110	04/19/2004	1357
SB		M383D	1.89374981		2.07		91.5	%	80-120	04/19/2004	1403
CCV		M0379	1.02708139		1.00		102.7	%	90-110	04/19/2004	1424
CCB			-0.0032731							04/19/2004	1432
CCV		M0388	1.02233747		1.00		102.2	%	90-110	04/19/2004	1510
CCB			-0.0029474							04/19/2004	1522
CCV		M0388	0.98868358		1.00		98.9	%	90-110	04/19/2004	1606
CCB			-0.0000236							04/19/2004	1617
MS	224341-1	M351	0.85655376		0.500	0.28633652	114.0	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.74213489	0.85655376	0.500	0.28633652	91.2	%	75-125	04/19/2004	1626
							14.3	R	20		
MB		3010	-0.0010862							04/19/2004	1635
LCS		M351	0.51218882		0.500		102.4	%	90-110	04/19/2004	1642
CCV		M0388	1.00194369		1.00		100.2	%	90-110	04/19/2004	1709
CCB			-0.0026358							04/19/2004	1718
MS	224302-1	M351	0.50858642		0.500	-0.0015007	102.0	%	75-125	04/19/2004	1731

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224302-1	M351	0.50902475	0.50858642	0.500	-0.0015007	102.1	%	75-125	04/19/2004	1736
							0.1	R	20		
CCV		M0388	1.00634844		1.00		100.6	%	90-110	04/19/2004	1806
CCB			-0.0029649							04/19/2004	1818
MB		3010	-0.0034676							04/19/2004	1852
CCV		M0388	1.00553969		1.00		100.6	%	90-110	04/19/2004	1859
CCB			-0.0025220							04/19/2004	1910
MS	224309-7	M348	0.51559518		0.500	0.00028978	103.1	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.49240249	0.51559518	0.500	0.00028978	98.4	%	75-125	04/19/2004	1944
							4.6	R	20		
CCV		M0388	1.00929997		1.00		100.9	%	90-110	04/19/2004	2000
CCB			-0.0037177							04/19/2004	2012
MB		3051	-0.0031503							04/19/2004	2016
LCS		M351	0.45730020		0.500		91.5	%	90-110	04/19/2004	2019
MS	224133-1	M351	0.45394453		0.500	-0.0012070	91.0	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.44348747	0.45394453	0.500	-0.0012070	88.9	%	75-125	04/19/2004	2032
							2.3	R	20		
CCV		M0388	1.00788152		1.00		100.8	%	90-110	04/19/2004	2054
CCB			-0.0027905							04/19/2004	2100
MB		3050	-0.0039052							04/19/2004	2119
LCS		M351	0.50439880		0.500		100.9	%	90-110	04/19/2004	2126
SB		M383D	1.98520287		2.07		95.9	%	80-120	04/19/2004	2131
CCV		M0388	1.00718364		1.00		100.7	%	90-110	04/19/2004	2201
CCB			-0.0039624							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02072958		2.00		101.0	%	90-110	04/19/2004	1041
ICV		M0368	1.01561899		1.00		101.6	%	90-110	04/19/2004	1055
ICV		M0380	1.06618835		1.00		106.6	%	90-110	04/19/2004	1110
ICB			-0.0033615							04/19/2004	1145
CCV		M0379	0.99787584		1.00		99.8	%	90-110	04/19/2004	1154
CCB			-0.0032375							04/19/2004	1206
MB		3051	-0.0032381							04/19/2004	1209
LCS		M351	0.51400832		0.500		102.8	%	90-110	04/19/2004	1213
CCV		M0388	1.00761657		1.00		100.8	%	90-110	04/19/2004	1314
CCB			-0.0031037							04/19/2004	1326
MB		3050	-0.0032787							04/19/2004	1351
LCS		M351	0.50443348		0.500		100.9	%	90-110	04/19/2004	1357
SB		M383D	1.92735714		2.10		91.8	%	80-120	04/19/2004	1403
CCV		M0379	1.01178430		1.00		101.2	%	90-110	04/19/2004	1424
CCB			-0.0034297							04/19/2004	1432
CCV		M0388	0.99653781		1.00		99.7	%	90-110	04/19/2004	1510
CCB			-0.0033511							04/19/2004	1522
CCV		M0388	0.97348459		1.00		97.3	%	90-110	04/19/2004	1606
CCB			-0.0032703							04/19/2004	1617
MS	224341-1	M351	0.53599000		0.500	0.06162533	94.9	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.52678240	0.53599000	0.500	0.06162533	93.0	%	75-125	04/19/2004	1626
							1.7	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0035132							04/19/2004	1635
LCS		M351	0.50851567		0.500		101.7	%	90-110	04/19/2004	1642
CCV		M0388	0.99033911		1.00		99.0	%	90-110	04/19/2004	1709
CCB			-0.0039762							04/19/2004	1718
MS	224302-1	M351	0.49404958		0.500	-0.0003413	98.9	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.49643824	0.49404958	0.500	-0.0003413	99.4	%	75-125	04/19/2004	1736
							0.5	R	20		
CCV		M0388	1.00042804		1.00		100.0	%	90-110	04/19/2004	1806
CCB			-0.0034716							04/19/2004	1818
MB		3010	-0.0035982							04/19/2004	1852
CCV		M0388	1.00162486		1.00		100.2	%	90-110	04/19/2004	1859
CCB			-0.0036171							04/19/2004	1910
MB		3010.	-0.0036302							04/19/2004	1914
LCS		M351	0.51814992		0.500		103.6	%	90-110	04/19/2004	1917
MS	224309-7	M348	0.47640484		0.500	-0.0024485	95.8	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.47088659	0.47640484	0.500	-0.0024485	94.7	%	75-125	04/19/2004	1944
							1.2	R	20		
CCV		M0388	0.99543655		1.00		99.5	%	90-110	04/19/2004	2000
CCB			-0.0039191							04/19/2004	2012
MB		3051	-0.0030452							04/19/2004	2016
LCS		M351	0.44989810		0.500		90.0	%	90-110	04/19/2004	2019
MS	224133-1	M351	0.43972340		0.500	-0.0037587	88.7	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43730044	0.43972340	0.500	-0.0037587	88.2	%	75-125	04/19/2004	2032
							0.6	R	20		
CCV		M0388	0.99387818		1.00		99.4	%	90-110	04/19/2004	2054
CCB			-0.0036859							04/19/2004	2100
MB		3050	-0.0037663							04/19/2004	2119
LCS		M351	0.50379708		0.500		100.8	%	90-110	04/19/2004	2126
SB		M383D	2.00699523		2.10		95.6	%	80-120	04/19/2004	2131
CCV		M0388	0.99440922		1.00		99.4	%	90-110	04/19/2004	2201
CCB			-0.0032991							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.06024915		1.00		106.0	%	90-110	04/19/2004	1859
CCB			-0.0090029							04/19/2004	1910
MB		3010.	-0.0097470							04/19/2004	1914
LCS		M351	0.58049309		0.500		116.1	%	80-120	04/19/2004	1917
MS	224309-7	M348	0.58107527		0.500	-0.0152318	119.3	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.54405598	0.58107527	0.500	-0.0152318	111.9	%	75-125	04/19/2004	1944
							6.6	R	20		
CCV		M0388	1.06823856		1.00		106.8	%	90-110	04/19/2004	2000

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02786386		2.00		101.4	%	90-110	04/19/2004	1041
ICV		M0368	1.03566328		1.00		103.6	%	90-110	04/19/2004	1055
ICV		M0380	1.05682946		1.00		105.7	%	90-110	04/19/2004	1110
ICB			-0.0169356							04/19/2004	1145
ICV		M368B	0.52418814		0.500		104.8	%	90-110	04/19/2004	1149
CCV		M0379	1.01298820		1.00		101.3	%	90-110	04/19/2004	1154
CCB			-0.0198612							04/19/2004	1206
MB		3051	-0.0199958							04/19/2004	1209
LCS		M351	0.52762888		0.500		105.5	%	87-112	04/19/2004	1213
MS	224244-1	M351	0.46400898		0.500	0.00906925	91.0	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.52069948	0.46400898	0.500	0.00906925	102.3	%	75-125	04/19/2004	1229
							11.5	R	20		
CCV		M0388	1.01736015		1.00		101.7	%	90-110	04/19/2004	1314
CCB			-0.0218277							04/19/2004	1326
MB		3050	-0.0194990							04/19/2004	1351
LCS		M351	0.54583155		0.500		109.2	%	87-112	04/19/2004	1357
SB		M383D	1.83318505		2.04		89.9	%	80-120	04/19/2004	1403
CCV		M0379	1.01564389		1.00		101.6	%	90-110	04/19/2004	1424
CCB			-0.0189265							04/19/2004	1429
CCV		M0388	0.99625584		1.00		99.6	%	90-110	04/19/2004	1510
CCB			-0.0238986							04/19/2004	1522
CCV		M0388	0.96889364		1.00		96.9	%	90-110	04/19/2004	1606
CCB			-0.0227177							04/19/2004	1617
MS	224341-1	M351	0.73422706		0.500	0.39220689	68.4	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.72312754	0.73422706	0.500	0.39220689	66.2	%	75-125	04/19/2004	1626
							1.5	R	20		
MB		3010	-0.0200516							04/19/2004	1635
LCS		M351	0.49051808		0.500		98.1	%	87-112	04/19/2004	1642
CCV		M0388	0.97684262		1.00		97.7	%	90-110	04/19/2004	1709
CCB			-0.0236598							04/19/2004	1718
MS	224302-1	M351	0.46894014		0.500	-0.0219401	98.2	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.47369196	0.46894014	0.500	-0.0219401	99.1	%	75-125	04/19/2004	1736
							1.0	R	20		
CCV		M0388	0.99528739		1.00		99.5	%	90-110	04/19/2004	1806
CCB			-0.0212410							04/19/2004	1811
MB		3010	-0.0234971							04/19/2004	1852
CCV		M0388	0.98786782		1.00		98.8	%	90-110	04/19/2004	1859
CCB			-0.0222129							04/19/2004	1904
MB		3010.	-0.0242190							04/19/2004	1914
LCS		M351	0.50399680		0.500		100.8	%	87-112	04/19/2004	1917
MS	224309-7	M348	0.46503840		0.500	-0.0165528	96.3	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.46134691	0.46503840	0.500	-0.0165528	95.6	%	75-125	04/19/2004	1944
							0.8	R	20		
CCV		M0388	0.98945846		1.00		98.9	%	90-110	04/19/2004	2000
CCB			-0.0255992							04/19/2004	2012
MB		3051	-0.0256742							04/19/2004	2016
LCS		M351	0.43627127		0.500		87.3	%	87-112	04/19/2004	2019
MS	224133-1	M351	0.41802334		0.500	-0.0241447	88.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.41503974	0.41802334	0.500	-0.0241447	87.8	%	75-125	04/19/2004	2032
							0.7	R	20		
CCV		M0388	0.98493111		1.00		98.5	%	90-110	04/19/2004	2054
CCB			-0.0243497							04/19/2004	2100
MB		3050	-0.0257034							04/19/2004	2119

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M351	0.51817358		0.500		103.6	%	87-112	04/19/2004	2126
SB		M383D	1.89137816		2.04		92.7	%	80-120	04/19/2004	2131
CCV		M0388	0.98995786		1.00		99.0	%	90-110	04/19/2004	2201
CCB			-0.0245341							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00631273		2.00		100.3	%	90-110	04/19/2004	1041
ICV		M0368	0.99287246		1.00		99.3	%	90-110	04/19/2004	1055
ICV		M0380	1.02349996		1.00		102.3	%	90-110	04/19/2004	1110
ICB			-0.0051977							04/19/2004	1145
CCV		M0379	1.02005200		1.00		102.0	%	90-110	04/19/2004	1154
CCB			-0.0050668							04/19/2004	1206
MB		3051	-0.0050021							04/19/2004	1209
LCS		M351	0.51035190		0.500		102.1	%	88-110	04/19/2004	1213
CCV		M0388	1.01901695		1.00		101.9	%	90-110	04/19/2004	1314
CCB			-0.0053781							04/19/2004	1326
MB		3050	-0.0047267							04/19/2004	1351
LCS		M351	0.53440684		0.500		106.9	%	88-110	04/19/2004	1357
SB		M383D	5.19994008		5.68		91.5	%	80-120	04/19/2004	1403
CCV		M0379	1.02036167		1.00		102.0	%	90-110	04/19/2004	1424
CCB			-0.0049781							04/19/2004	1432
CCV		M0388	1.01235201		1.00		101.2	%	90-110	04/19/2004	1510
CCB			-0.0056278							04/19/2004	1522
CCV		M0388	0.97704840		1.00		97.7	%	90-110	04/19/2004	1606
CCB			-0.0057950							04/19/2004	1617
MS	224341-1	M351	4.40405297		0.500	3.70532692	139.7	%	75-125	04/19/2004	1621
MSD	224341-1	M351	4.54442155	4.40405297	0.500	3.70532692	167.8	%	75-125	04/19/2004	1626
							3.1	R	20		
MB		3010	-0.0054588							04/19/2004	1635
LCS		M351	0.50615827		0.500		101.2	%	88-110	04/19/2004	1642
CCV		M0388	0.99524873		1.00		99.5	%	90-110	04/19/2004	1709
CCB			-0.0057399							04/19/2004	1718
MS	224302-1	M351	1.05222316		0.500	0.56444651	97.6	%	75-125	04/19/2004	1731
MSD	224302-1	M351	1.07555389	1.05222316	0.500	0.56444651	102.2	%	75-125	04/19/2004	1736
							2.2	R	20		
CCV		M0388	1.00490005		1.00		100.5	%	90-110	04/19/2004	1806
CCB			-0.0055962							04/19/2004	1818
MB		3010	-0.0013886							04/19/2004	1852
CCV		M0388	1.00959241		1.00		101.0	%	90-110	04/19/2004	1859
CCB			-0.0041590							04/19/2004	1910
MB		3010.	-0.0044738							04/19/2004	1914
LCS		M351	0.54447385		0.500		108.9	%	88-110	04/19/2004	1917
MS	224309-7	M348	6.10879753		0.500	5.63704612	94.4	%	75-125	04/19/2004	1939
MSD	224309-7	M348	5.82348184	6.10879753	0.500	5.63704612	37.3	%	75-125	04/19/2004	1944
							4.8	R	20		
CCV		M0388	1.00020925		1.00		100.0	%	90-110	04/19/2004	2000
CCB			-0.0050004							04/19/2004	2012

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3051	-0.0051465							04/19/2004	2016
LCS		M351	0.44987865		0.500		90.0	%	88-110	04/19/2004	2019
MS	224133-1	M351	0.44236045		0.500	-0.0056480	89.6	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43318850	0.44236045	0.500	-0.0056480	87.8	%	75-125	04/19/2004	2032
							2.1	R	20		
CCV		M0388	0.99704564		1.00		99.7	%	90-110	04/19/2004	2054
CCB			-0.0053431							04/19/2004	2100
MB		3050	-0.0056361							04/19/2004	2119
LCS		M351	0.52508414		0.500		105.0	%	88-110	04/19/2004	2126
SB		M383D	5.36268924		5.68		94.4	%	80-120	04/19/2004	2131
CCV		M0388	0.99736935		1.00		99.7	%	90-110	04/19/2004	2201
CCB			-0.0055548							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02108128		2.00		101.1	%	90-110	04/19/2004	1041
ICV		M0368	1.02844814		1.00		102.8	%	90-110	04/19/2004	1055
ICV		M0380	1.05648010		1.00		105.6	%	90-110	04/19/2004	1110
ICB			-0.0038468							04/19/2004	1145
ICV		M368B	0.53990751		0.500		108.0	%	90-110	04/19/2004	1149
CCV		M0379	1.02566855		1.00		102.6	%	90-110	04/19/2004	1154
CCB			-0.0038377							04/19/2004	1206
MB		3051	-0.0036413							04/19/2004	1209
LCS		M351	0.51384456		0.500		102.8	%	90-112	04/19/2004	1213
CCV		M0388	1.03355003		1.00		103.4	%	90-110	04/19/2004	1314
CCB			-0.0042963							04/19/2004	1326
MB		3050	-0.0034942							04/19/2004	1351
LCS		M351	0.51893767		0.500		103.8	%	90-112	04/19/2004	1357
SB		M383D	1.73596269		1.89		91.8	%	80-120	04/19/2004	1403
CCV		M0379	1.03042559		1.00		103.0	%	90-110	04/19/2004	1424
CCB			-0.0040823							04/19/2004	1432
CCV		M0388	1.01694510		1.00		101.7	%	90-110	04/19/2004	1510
CCB			-0.0040139							04/19/2004	1522
CCV		M0388	0.99371793		1.00		99.4	%	90-110	04/19/2004	1606
CCB			0.00036751							04/19/2004	1617
MS	224341-1	M351	0.64358542		0.500	0.12199296	104.3	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.61852110	0.64358542	0.500	0.12199296	99.3	%	75-125	04/19/2004	1626
							4.0	R	20		
MB		3010	0.00058772							04/19/2004	1635
LCS		M351	0.51537394		0.500		103.1	%	90-112	04/19/2004	1642
CCV		M0388	1.00993367		1.00		101.0	%	90-110	04/19/2004	1709
CCB			-0.0012447							04/19/2004	1718
MS	224302-1	M351	0.50338206		0.500	0.01139648	98.4	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.50140722	0.50338206	0.500	0.01139648	98.0	%	75-125	04/19/2004	1736
							0.4	R	20		
CCV		M0388	1.01951201		1.00		102.0	%	90-110	04/19/2004	1806
CCB			0.00139860							04/19/2004	1818
MB		3010	0.00783065							04/19/2004	1852

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.01470067		1.00		101.5	%	90-110	04/19/2004	1859
CCB			0.00185257							04/19/2004	1910
MB		3010.	0.00133902							04/19/2004	1914
LCS		M351	0.55934852		0.500		111.9	%	90-112	04/19/2004	1917
MS	224309-7	M348	0.50486383		0.500	0.02196785	96.6	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.48388597	0.50486383	0.500	0.02196785	92.4	%	75-125	04/19/2004	1944
							4.2	R	20		
CCV		M0388	1.00646065		1.00		100.6	%	90-110	04/19/2004	2000
CCB			-0.0015246							04/19/2004	2012
MB		3051	-0.0015628							04/19/2004	2016
LCS		M351	0.45297715		0.500		90.6	%	90-112	04/19/2004	2019
MS	224133-1	M351	0.44040909		0.500	-0.0029879	88.7	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43409915	0.44040909	0.500	-0.0029879	87.4	%	75-125	04/19/2004	2032
							1.4	R	20		
CCV		M0388	1.00718255		1.00		100.7	%	90-110	04/19/2004	2054
CCB			-0.0017148							04/19/2004	2100
MB		3050	-0.0017998							04/19/2004	2119
LCS		M351	0.50701646		0.500		101.4	%	90-112	04/19/2004	2126
SB		M383D	1.79216594		1.89		94.8	%	80-120	04/19/2004	2131
CCV		M0388	1.00775828		1.00		100.8	%	90-110	04/19/2004	2201
CCB			-0.0017367							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98293398		2.00		99.1	%	90-110	04/19/2004	1041
ICV		M0368	1.00811071		1.00		100.8	%	90-110	04/19/2004	1055
ICV		M0380	1.04371922		1.00		104.4	%	90-110	04/19/2004	1110
ICB			0.00515300							04/19/2004	1145
ICV		M368B	0.53517948		0.500		107.0	%	90-110	04/19/2004	1149
CCV		M0379	0.99824767		1.00		99.8	%	90-110	04/19/2004	1154
CCB			0.00744457							04/19/2004	1206
MB		3051	0.00047284							04/19/2004	1209
LCS		M351	0.49463126		0.500		98.9	%	82-111	04/19/2004	1213
MS	224244-1	M351	0.41401453		0.500	0.02618422	77.6	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.47350990	0.41401453	0.500	0.02618422	89.5	%	75-125	04/19/2004	1229
							13.4	R	20		
CCV		M0388	1.00864613		1.00		100.9	%	90-110	04/19/2004	1314
CCB			0.00217504							04/19/2004	1326
MB		3050	0.00468866							04/19/2004	1351
LCS		M351	0.49976816		0.500		100.0	%	82-111	04/19/2004	1357
SB		M383D	0.91953145		0.996		92.3	%	80-120	04/19/2004	1403
CCV		M0379	1.01461669		1.00		101.5	%	90-110	04/19/2004	1424
CCB			0.00204078							04/19/2004	1432
CCV		M0388	1.00316018		1.00		100.3	%	90-110	04/19/2004	1510
CCB			0.00950283							04/19/2004	1522
CCV		M0388	0.97749281		1.00		97.7	%	90-110	04/19/2004	1606
CCB			0.00704582							04/19/2004	1617
MS	224341-1	M351	0.44451339		0.500	-0.0194634	92.8	%	75-125	04/19/2004	1621

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224341-1	M351	0.41578319	0.44451339	0.500	-0.0194634	87.0	%	75-125	04/19/2004	1626
							6.7	R	20		
MB		3010	0.00127224							04/19/2004	1635
LCS		M351	0.50338014		0.500		100.7	%	82-111	04/19/2004	1642
CCV		M0388	0.98739104		1.00		98.7	%	90-110	04/19/2004	1709
CCB			0.00474939							04/19/2004	1718
MS	224302-1	M351	0.51777545		0.500	0.00849088	101.9	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.52380359	0.51777545	0.500	0.00849088	103.1	%	75-125	04/19/2004	1736
							1.2	R	20		
CCV		M0388	0.98685399		1.00		98.7	%	90-110	04/19/2004	1806
CCB			0.00453313							04/19/2004	1818
MB		3010	-0.0007447							04/19/2004	1852
CCV		M0388	0.98968476		1.00		99.0	%	90-110	04/19/2004	1859
CCB			0.00023114							04/19/2004	1910
MB		3010.	0.00708800							04/19/2004	1914
LCS		M351	0.50634822		0.500		101.3	%	82-111	04/19/2004	1917
MS	224309-7	M348	0.52678980		0.500	0.01795909	101.8	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.53628749	0.52678980	0.500	0.01795909	103.7	%	75-125	04/19/2004	1944
							1.8	R	20		
CCV		M0388	0.98619348		1.00		98.6	%	90-110	04/19/2004	2000
CCB			0.00733192							04/19/2004	2012
MB		3051	0.00370258							04/19/2004	2016
LCS		M351	0.43585504		0.500		87.2	%	82-111	04/19/2004	2019
MS	224133-1	M351	0.55550076		0.500	0.03235288	104.6	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.55268391	0.55550076	0.500	0.03235288	104.1	%	75-125	04/19/2004	2032
							0.5	R	20		
CCV		M0388	0.97701685		1.00		97.7	%	90-110	04/19/2004	2054
CCB			0.00325696							04/19/2004	2100
MB		3050	0.00601201							04/19/2004	2119
LCS		M351	0.48941031		0.500		97.9	%	82-111	04/19/2004	2126
SB		M383D	0.95168416		0.996		95.6	%	80-120	04/19/2004	2131
CCV		M0388	0.98922874		1.00		98.9	%	90-110	04/19/2004	2201
CCB			0.00550824							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.01589511		1.0		101.6	%	90-110	04/19/2004	1041
ICV		M0369	0.99982056		1.00		100.0	%	90-110	04/19/2004	1101
ICB			-0.0010159							04/19/2004	1145
CCV		M0379	0.50616656		0.50		101.2	%	90-110	04/19/2004	1154
CCB			-0.0011053							04/19/2004	1206
MB		3051	-0.0013726							04/19/2004	1209
LCS		M351	0.24540302		0.25		98.2	%	87-110	04/19/2004	1213
MS	224244-1	M351	0.21213881		0.25	0.00166175	84.2	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.24739462	0.21213881	0.25	0.00166175	98.3	%	75-125	04/19/2004	1229
							15.3	R	20		
CCV		M0388	0.50790470		0.50		101.6	%	90-110	04/19/2004	1314
CCB			-0.0019977							04/19/2004	1326

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3050	-0.0001408							04/19/2004	1351
LCS		M351	0.25242825		0.25		101.0	%	87-110	04/19/2004	1357
SB		M383D	1.00933816		0.953		105.9	%	80-120	04/19/2004	1403
CCV		M0379	0.50679259		0.50		101.4	%	90-110	04/19/2004	1424
CCB			-0.0009103							04/19/2004	1432
CCV		M0388	0.50226131		0.50		100.5	%	90-110	04/19/2004	1510
CCB			-0.0010382							04/19/2004	1522
CCV		M0388	0.48382961		0.50		96.8	%	90-110	04/19/2004	1606
CCB			-0.0010024							04/19/2004	1617
MS	224341-1	M351	0.24243999		0.25	-0.0019374	97.8	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.23234524	0.24243999	0.25	-0.0019374	93.7	%	75-125	04/19/2004	1626
							4.3	R	20		
MB		3010	-0.0005786							04/19/2004	1635
LCS		M351	0.25380821		0.25		101.5	%	87-110	04/19/2004	1642
CCV		M0388	0.50131024		0.50		100.3	%	90-110	04/19/2004	1709
CCB			-0.0011064							04/19/2004	1718
CCV		M0388	0.50167180		0.50		100.3	%	90-110	04/19/2004	1806
CCB			-0.0006552							04/19/2004	1818
MB		3010	-0.0014798							04/19/2004	1852
CCV		M0388	0.50170688		0.50		100.3	%	90-110	04/19/2004	1859
CCB			-0.0018849							04/19/2004	1910
MB		3010.	-0.0019437							04/19/2004	1914
LCS		M351	0.27094707		0.25		108.4	%	87-110	04/19/2004	1917
MS	224309-7	M348	0.17444333		0.25	-0.0017007	70.5	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.16449411	0.17444333	0.25	-0.0017007	66.5	%	75-125	04/19/2004	1944
							5.9	R	20		
CCV		M0388	0.50699304		0.50		101.4	%	90-110	04/19/2004	2000
CCB			-0.0011241							04/19/2004	2012
MB		3051	-0.0009267							04/19/2004	2016
LCS		M351	0.22093948		0.25		88.4	%	87-110	04/19/2004	2019
MS	224133-1	M351	0.20927014		0.25	-0.0017613	84.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.20593887	0.20927014	0.25	-0.0017613	83.1	%	75-125	04/19/2004	2032
							1.6	R	20		
CCV		M0388	0.51165728		0.50		102.3	%	90-110	04/19/2004	2054
CCB			-0.0006534							04/19/2004	2100
MB		3050	-0.0008936							04/19/2004	2119
LCS		M351	0.25093280		0.25		100.4	%	87-110	04/19/2004	2126
SB		M383D	1.05868044		0.953		111.1	%	80-120	04/19/2004	2131
CCV		M0388	0.50270738		0.50		100.5	%	90-110	04/19/2004	2201
CCB			-0.0006959							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.10496335		2.00		105.2	%	90-110	04/23/2004	1349
RS		M0371	2.05803025		2.00		102.9	%	90-110	04/23/2004	1359
ICV		M0374	1.00534008		1.00		100.5	%	90-110	04/23/2004	1422
CCV		M0388	2.07370401		2.00		103.7	%	90-110	04/23/2004	1448
CCB			-0.0047198							04/23/2004	1501

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	2.05825955		2.00		102.9	%	90-110	04/23/2004	1607
CCB			0.01743591							04/23/2004	1612
MB		3010	-0.0124011							04/23/2004	1623
LCS		M351	1.03351289		1.00		103.4	%	83-118	04/23/2004	1627
CCB			-0.0185738							04/23/2004	1632
MB		3010	-0.0153073							04/23/2004	1648
MB		3010.	-0.0151764							04/23/2004	1651
LCS		M351	1.03906767		1.00		103.9	%	83-118	04/23/2004	1655
CCV		M0388	2.01508569		2.00		100.8	%	90-110	04/23/2004	1712
CCB			-0.0116118							04/23/2004	1726
MS	224389-3	M351	0.99590767		1.00	-0.0369076	103.3	%	75-125	04/23/2004	1740
MSD	224389-3	M351	1.01395660	0.99590767	1.00	-0.0369076	105.1	%	75-125	04/23/2004	1745
							1.8	R	20		
CCV		M0388	2.03318442		2.00		101.7	%	90-110	04/23/2004	1813
CCB			-0.0110304							04/23/2004	1826
CCV		M0388	2.00539274		2.00		100.3	%	90-110	04/23/2004	1909
CCB			-0.0120060							04/23/2004	1923
MB		3010.	-0.0161856							04/23/2004	1936
LCS		M351	1.02953109		1.00		103.0	%	83-118	04/23/2004	1940
MS	224400-2	M351	1.05128135		1.00	-0.0184096	107.0	%	75-125	04/23/2004	1953
MSD	224400-2	M351	1.04633632	1.05128135	1.00	-0.0184096	106.5	%	75-125	04/23/2004	1959
							0.5	R	20		
CCV		M0388	2.05328924		2.00		102.7	%	90-110	04/23/2004	2013
CCB			-0.0094764							04/23/2004	2026
MB		3010	-0.0118164							04/23/2004	2029
LCS		M351	1.04182693		1.00		104.2	%	83-118	04/23/2004	2033
MB		3010	-0.0153187							04/23/2004	2053
LCS		M351	0.96516855		1.00		96.5	%	83-118	04/23/2004	2059
B			-0.0199158							04/23/2004	2104
CCV		M0388	2.02877114		2.00		101.4	%	90-110	04/23/2004	2122
CCB			-0.0105243							04/23/2004	2136
MD	224404-6		-0.0128982			-0.0151623	0.0022641	A	0.0200000	04/23/2004	2142
MS	224404-6	M351	1.02677486		1.00	-0.0151623	104.2	%	75-125	04/23/2004	2149
MSD	224404-6	M351	1.00908365	1.02677486	1.00	-0.0151623	102.4	%	75-125	04/23/2004	2154
							1.7	R	20		
MB		3010	-0.0067999							04/23/2004	2204
LCS		M351	1.02010687		1.00		102.0	%	83-118	04/23/2004	2211
CCV		M0388	2.07336790		2.00		103.7	%	90-110	04/23/2004	2228
CCB			-0.0073217							04/23/2004	2241
MS	224401-1	M351	1.01030912		1.00	-0.0348454	104.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	1.01227105	1.01030912	1.00	-0.0348454	104.7	%	75-125	04/23/2004	2253
							0.2	R	20		
CCV		M0388	2.00528245		2.00		100.3	%	90-110	04/23/2004	2322
CCB			-0.0020157							04/23/2004	2333
CCV		M0388	1.96534010		2.00		98.3	%	90-110	04/24/2004	0014
CCB			-0.0107983							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01127838		2.00		100.6	%	90-110	04/19/2004	1041
ICV		M0368	0.99525679		1.00		99.5	%	90-110	04/19/2004	1055
ICV		M0380	1.01151796		1.00		101.2	%	90-110	04/19/2004	1110
ICB			-0.0032841							04/19/2004	1145
ICV		M368B	0.51878350		0.500		103.8	%	90-110	04/19/2004	1149
CCV		M0379	0.98807174		1.00		98.8	%	90-110	04/19/2004	1154
CCB			-0.0032753							04/19/2004	1206
MB		3051	-0.0029521							04/19/2004	1209
LCS		M351	0.49701761		0.500		99.4	%	89-110	04/19/2004	1213
CCV		M0388	0.99255304		1.00		99.3	%	90-110	04/19/2004	1314
CCB			-0.0029466							04/19/2004	1326
MB		3050	-0.0033800							04/19/2004	1351
LCS		M351	0.49429410		0.500		98.9	%	89-110	04/19/2004	1357
SB		M383D	1.97069067		2.04		96.6	%	80-120	04/19/2004	1403
CCV		M0379	0.99040480		1.00		99.0	%	90-110	04/19/2004	1424
CCB			-0.0032191							04/19/2004	1432
CCV		M0388	0.98341376		1.00		98.3	%	90-110	04/19/2004	1510
CCB			-0.0037112							04/19/2004	1522
CCV		M0388	0.94570948		1.00		94.6	%	90-110	04/19/2004	1606
CCB			-0.0032967							04/19/2004	1617
MS	224341-1	M351	0.66615983		0.500	0.17139586	99.0	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.68472840	0.66615983	0.500	0.17139586	102.7	%	75-125	04/19/2004	1626
							2.7	R	20		
MB		3010	-0.0027328							04/19/2004	1635
LCS		M351	0.49350714		0.500		98.7	%	89-110	04/19/2004	1642
CCV		M0388	0.97159437		1.00		97.2	%	90-110	04/19/2004	1709
CCB			-0.0026711							04/19/2004	1718
MS	224302-1	M351	0.51591899		0.500	0.00427049	102.3	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.51493256	0.51591899	0.500	0.00427049	102.1	%	75-125	04/19/2004	1736
							0.2	R	20		
CCV		M0388	0.97260982		1.00		97.3	%	90-110	04/19/2004	1806
CCB			-0.0021359							04/19/2004	1818
MB		3010	-0.0028471							04/19/2004	1852
CCV		M0388	0.96831243		1.00		96.8	%	90-110	04/19/2004	1859
CCB			-0.0037222							04/19/2004	1910
MB		3010.	-0.0030583							04/19/2004	1914
LCS		M351	0.52902791		0.500		105.8	%	89-110	04/19/2004	1917
MS	224309-7	M348	0.51229005		0.500	-0.0016683	102.8	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.49005925	0.51229005	0.500	-0.0016683	98.3	%	75-125	04/19/2004	1944
							4.4	R	20		
CCV		M0388	0.97365353		1.00		97.4	%	90-110	04/19/2004	2000
CCB			-0.0026303							04/19/2004	2012
MB		3051	-0.0030035							04/19/2004	2016
LCS		M351	0.44028079		0.500		88.1	%	89-110	04/19/2004	2019
MS	224133-1	M351	0.43383644		0.500	-0.0031200	87.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.42541378	0.43383644	0.500	-0.0031200	85.7	%	75-125	04/19/2004	2032
							2.0	R	20		
CCV		M0388	0.97538642		1.00		97.5	%	90-110	04/19/2004	2054
CCB			-0.0022371							04/19/2004	2100
MB		3050	-0.0028553							04/19/2004	2119
LCS		M351	0.48200410		0.500		96.4	%	89-110	04/19/2004	2126
SB		M383D	1.79870302		2.04		88.2	%	80-120	04/19/2004	2131
CCV		M0388	0.97044552		1.00		97.0	%	90-110	04/19/2004	2201

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0033225							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98178005		2.00		99.1	%	90-110	04/23/2004	1346
ICV		M0368	1.02451487		1.00		102.5	%	90-110	04/23/2004	1405
ICV		M0380	1.01432327		1.00		101.4	%	90-110	04/23/2004	1413
CCV		M0388	1.00962828		1.00		101.0	%	90-110	04/23/2004	1448
CCB			-0.0049707							04/23/2004	1501
ICV		M368B	0.73119425		0.500		146.2	%	90-110	04/23/2004	1602
CCV		M0388	0.99170201		1.00		99.2	%	90-110	04/23/2004	1607
CCB			0.00174947							04/23/2004	1612
MB		3010	-0.0018065							04/23/2004	1623
LCS		M351	0.50504361		0.500		101.0	%	86-110	04/23/2004	1627
CCB			0.00335304							04/23/2004	1632
MB		3010	-0.0037322							04/23/2004	1648
MB		3010.	-0.0017033							04/23/2004	1651
LCS		M351	0.50010374		0.500		100.0	%	86-110	04/23/2004	1655
CCV		M0388	0.99927414		1.00		99.9	%	90-110	04/23/2004	1712
CCB			0.00139454							04/23/2004	1726
MS	224389-3	M351	0.54974978		0.500	0.04959331	100.0	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.54218340	0.54974978	0.500	0.04959331	98.5	%	75-125	04/23/2004	1745
							1.4	R	20		
CCV		M0388	0.98098101		1.00		98.1	%	90-110	04/23/2004	1813
CCB			-0.0043997							04/23/2004	1826
CCV		M0388	0.97746014		1.00		97.7	%	90-110	04/23/2004	1909
CCB			-0.0041873							04/23/2004	1923
MB		3010.	-0.0034145							04/23/2004	1936
LCS		M351	0.49008209		0.500		98.0	%	86-110	04/23/2004	1940
MS	224400-2	M351	5.98953864		0.500	5.51286071	95.3	%	75-125	04/23/2004	1953
MSD	224400-2	M351	5.96921397	5.98953864	0.500	5.51286071	91.3	%	75-125	04/23/2004	1959
							0.3	R	20		
CCV		M0388	0.98378485		1.00		98.4	%	90-110	04/23/2004	2013
CCB			-0.0053698							04/23/2004	2026
MB		3010	-0.0005258							04/23/2004	2029
LCS		M351	0.50297011		0.500		100.6	%	86-110	04/23/2004	2033
MB		3010	-0.0039929							04/23/2004	2053
LCS		M351	0.46309926		0.500		92.6	%	86-110	04/23/2004	2059
B			-0.0033842							04/23/2004	2104
CCV		M0388	0.97526778		1.00		97.5	%	90-110	04/23/2004	2122
CCB			-0.0066922							04/23/2004	2136
MD	224404-6		-0.0064029			-0.0048945	0.0015084	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.48750692		0.500	-0.0048945	98.5	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.47531585	0.48750692	0.500	-0.0048945	96.0	%	75-125	04/23/2004	2154
							2.5	R	20		
MB		3010	-0.0067434							04/23/2004	2204
LCS		M351	0.49012297		0.500		98.0	%	86-110	04/23/2004	2211
CCV		M0388	0.98526261		1.00		98.5	%	90-110	04/23/2004	2228

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224322 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0084579							04/23/2004	2241
MS	224401-1	M351	0.50471887		0.500	0.00818561	99.3	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.48722002	0.50471887	0.500	0.00818561	95.8	%	75-125	04/23/2004	2253
							3.5	R	20		
CCV		M0388	1.00420055		1.00		100.4	%	90-110	04/23/2004	2322
CCB			0.00116697							04/23/2004	2333
CCV		M0388	0.93036443		1.00		93.0	%	90-110	04/24/2004	0014
CCB			-0.0038571							04/24/2004	0028

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

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Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D200143

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

April 30, 2004

STL LOT NUMBER: **I4D200143**
PO/CONTRACT: 224295,224349,224322

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the five samples received under chain of custody by Severn Trent Laboratories (STL) on April 17, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D200143

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224295-1 04/14/04 16:10 001				
Cadmium	50.3	1.0	ug/L	SW846 6020
Antimony	2.9	1.0	ug/L	SW846 6020
Thallium	1.3	1.0	ug/L	SW846 6020
224295-2 04/14/04 16:30 002				
Cadmium	67.3	1.0	ug/L	SW846 6020
Antimony	16.0	1.0	ug/L	SW846 6020
224295-3 04/14/04 16:30 003				
Cadmium	102	1.0	ug/L	SW846 6020
Antimony	24.1	1.0	ug/L	SW846 6020
224349-1 04/16/04 15:45 004				
Cadmium	55.1	1.0	ug/L	SW846 6020
Antimony	1.4	1.0	ug/L	SW846 6020
Thallium	1.0	1.0	ug/L	SW846 6020
224322-1 04/15/04 15:45 005				
Cadmium	104	1.0	ug/L	SW846 6020
Antimony	7.1	1.0	ug/L	SW846 6020
Thallium	3.6	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D200143

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D200143

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GEG11	001	224295-1	04/14/04	16:10
GEG18	002	224295-2	04/14/04	16:30
GEG2A	003	224295-3	04/14/04	16:30
GEG2D	004	224349-1	04/16/04	15:45
GEG2G	005	224322-1	04/15/04	15:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D200143

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
002	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
003	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
004	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
005	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049

STL CORPUS CHRISTI

Client Sample ID: 224295-1

TOTAL Metals

Lot-Sample #...: I4D200143-001 Matrix.....: WATER
Date Sampled...: 04/14/04 16:10 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	50.3	1.0	ug/L	SW846 6020	04/22/04	GEG111AA
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Antimony	2.9	1.0	ug/L	SW846 6020	04/22/04	GEG111AC
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Thallium	1.3	1.0	ug/L	SW846 6020	04/22/04	GEG111AD
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG111AE
		Dilution Factor: 1		Analysis Time..: 11:51	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224295-2

TOTAL Metals

Lot-Sample #...: I4D200143-002 **Matrix.....:** WATER
Date Sampled...: 04/14/04 16:30 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**67.3**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG181AA**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Antimony	**16.0**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG181AC**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEG181AD
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG181AE
		Dilution Factor: 1		Analysis Time..: 11:56	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224295-3

TOTAL Metals

Lot-Sample #...: I4D200143-003 **Matrix.....:** WATER
Date Sampled...: 04/14/04 16:30 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**102**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2A1AA**
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Antimony	**24.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2A1AC**
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEG2A1AD
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2A1AE
		Dilution Factor: 1		Analysis Time..: 12:02	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224349-1

TOTAL Metals

Lot-Sample #...: I4D200143-004 Matrix.....: WATER
Date Sampled...: 04/16/04 15:45 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**55.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2D1AA**
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Antimony	**1.4**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2D1AC**
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Thallium	**1.0**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2D1AD**
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2D1AE
		Dilution Factor: 1		Analysis Time..: 12:07	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224322-1

TOTAL Metals

Lot-Sample #...: I4D200143-005 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**104**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AA**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Antimony	**7.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AC**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Thallium	**3.6**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AD**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2G1AE
		Dilution Factor: 1		Analysis Time..: 12:12	MS Run #.....: 4118049	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D220000-247 **Prep Batch #...:** 4113247						
Antimony	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AC
		Dilution Factor: 1				
		Analysis Time..: 17:49				
Cadmium	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AA
		Dilution Factor: 1				
		Analysis Time..: 17:49				
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AD
		Dilution Factor: 1				
		Analysis Time..: 17:49				
MB Lot-Sample #: I4D270000-144 **Prep Batch #...:** 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GE0RW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:41				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D220000-247 **Prep Batch #...:** 4113247					
Cadmium	94	(80 - 120)	SW846 6020	04/22/04	GEML71AE
		Dilution Factor: 1	Analysis Time..: 17:55		
Antimony	93	(80 - 120)	SW846 6020	04/22/04	GEML71AF
		Dilution Factor: 1	Analysis Time..: 17:55		
Thallium	97	(80 - 120)	SW846 6020	04/22/04	GEML71AG
		Dilution Factor: 1	Analysis Time..: 17:55		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144					
Bismuth	102	(80 - 120)	SW846 6010B	04/26-04/28/04	GE0RW1AC
		Dilution Factor: 1	Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D220000-247 **Prep Batch #...:** 4113247							
Cadmium	50.0	46.9	ug/L	94	SW846 6020	04/22/04	GEML71AE
			Dilution Factor: 1		Analysis Time..: 17:55		
Antimony	50.0	46.3	ug/L	93	SW846 6020	04/22/04	GEML71AF
			Dilution Factor: 1		Analysis Time..: 17:55		
Thallium	50.0	48.6	ug/L	97	SW846 6020	04/22/04	GEML71AG
			Dilution Factor: 1		Analysis Time..: 17:55		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	04/26-04/28/04	GE0RW1AC
			Dilution Factor: 1		Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4113247							
Antimony	91	(80 - 120)			SW846 6020	04/22/04	GEG2G1AH
	93	(80 - 120)	2.1	(0-20)	SW846 6020	04/22/04	GEG2G1AJ
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
Cadmium	87	(80 - 120)			SW846 6020	04/22/04	GEG2G1AF
	83	(80 - 120)	1.3	(0-20)	SW846 6020	04/22/04	GEG2G1AG
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
Thallium	93	(80 - 120)			SW846 6020	04/22/04	GEG2G1AK
	97	(80 - 120)	3.5	(0-20)	SW846 6020	04/22/04	GEG2G1AL
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144							
Bismuth	100	(75 - 125)			SW846 6010B	04/26-04/28/04	GEG2G1AM
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/26-04/28/04	GEG2G1AN
		Dilution Factor: 1					
		Analysis Time..: 12:27					
		MS Run #.....: 4118049					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4113247									
Antimony									
	7.1	50.0	52.4	ug/L	91		SW846 6020	04/22/04	GEG2G1AH
	7.1	50.0	53.5	ug/L	93	2.1	SW846 6020	04/22/04	GEG2G1AJ
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
Cadmium									
	104	50.0	148	ug/L	87		SW846 6020	04/22/04	GEG2G1AF
	104	50.0	146	ug/L	83	1.3	SW846 6020	04/22/04	GEG2G1AG
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
Thallium									
	3.6	50.0	50.1	ug/L	93		SW846 6020	04/22/04	GEG2G1AK
	3.6	50.0	51.8	ug/L	97	3.5	SW846 6020	04/22/04	GEG2G1AL
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144									
Bismuth									
	ND	0.500	0.502	mg/L	100		SW846 6010B	04/26-04/28/04	GEG2G1AM
	ND	0.500	0.494	mg/L	99	1.6	SW846 6010B	04/26-04/28/04	GEG2G1AN
			Dilution Factor: 1						
			Analysis Time..: 12:27						
			MS Run #.....: 4118049						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I4D200143

RECEIVED BY: [signature]

COC NUMBER:

DATE/TIME RECEIVED: 4-17-04 0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4-17-04 0850 All In 1 Lot

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: LT

LOG-IN REVIEWED: CC

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☒ YES ☐ NO — Custody Seal Signed/Dated: ☐ YES ☐ NO

Custody Seal Present: ☒ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☐ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **IR THERMOMETER #:** 05

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☒ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☒ YES **VERIFIED BY:** CC

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☒ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: CC

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 4/30/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

No. 22474

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.: I4D200143

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (56 Cd, Tl)	6010 (13)	REMARKS/PRECAUTIONS
	224295-1	4/14/04	16:10	Water	P500	HNO_3		X	X	Attn: Neal Salcher
	224295-2	↓	16:30	↓	↓	↓		X	X	
	224295-3	↓	16:30	↓	↓	↓		X	X	
										ASARCO Pricing
										2e 4-17-04cc

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Jessica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/17/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0930	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

STL Austin

No. 22476

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (Sb, Cd, Tl)	ANALYSIS/METHOD REQUEST: 6010 (Si)	LAB JOB NO.	REMARKS/PRECAUTIONS
	224349-1	4/16/04	15:45	Water	P500	HNO3		X	X		Attn: Neal Salcher ASARCO Pricing 2° 4-17-04 cc

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 16:14	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/17/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

STL Austin

No. 22475

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	BILLING INFORMATION
ADDRESS:	BILL TO:
	ADDRESS:
	Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: ICPMS 6020 (Sb, Cd, Ti)	ANALYSIS/METHOD REQUEST: 6010 (Bi)							REMARKS/PRECAUTIONS
	224322-1	4/15/04	15:45	Water	PSTU	HNO_3	1	X	X							Attn: Neal Salcher ASARCO Pricing
																2° 4-17-04 cc

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Verónica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME: 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	4-17-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME: 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/06/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/06/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
` - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

SEVERN TRENT **STL**

No. 23456

CHAIN OF CUSTODY RECORD

15.0°C Just sampled

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Encycle RCRA Closure	PROJECT NAME/NUMBER: Encycle RCRA Closure
SEND REPORT TO: Ken Brandner/Rich Marcus	**BILLING INFORMATION**
ADDRESS: 711 N. Carancahua Corpus Christi, TX 78475	BILL TO: Rich Marcus, Encycle
	ADDRESS:
PHONE: 361-883-1353	PHONE:
FAX: 361-883-1353	FAX: PO NO:

LAB JOB NO. 924322

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Cyanide (1qt poly/NaOH)	Sb, As, Ba, Be, Cd, Cr, Co, Cu Pb, Mn, Hg, Ni, Se, Ag, Tl Tin, V, Zn (2 1pt poly/HNO3)	REMARKS/PRECAUTIONS
Bin N	Bin N	4/15/04	1545	L	1qt poly	NaOH	1	X		Need low
			1545		1pt poly	HNO_3	2		X	detection limits

SAMPLER: Marc Buentello/ARCADIS SHIPMENT METHOD: In Person AIRBILL NO.: —

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Marc Buentello	4/15/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Marc Buentello/ARCADIS	TIME 1604	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/15/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1604	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274697 **Report Date:** 05/27/04
Project ID: Encycle RCRA Closure
Sample Name: Bin N
Sample Matrix: water
Date Received: 05/25/2004 **Time:** 16:40
Date Sampled: 05/25/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	05/26/04	3015	---	---	---	---	---
Antimony/ICP	.0077	mg/L	0.005	<0.0.005	05/26/04	6010 & 200.7	---	9.41	109.4	98.42	91.6
Cadmium/ICP	0.0337	mg/L	0.002	<0.002	05/26/04	6010 & 200.7	---	9.87	107.91	97	92.8
Lead/ICP	0.247	mg/L	0.01	<0.01	05/26/04	6010 & 200.7	---	7.11	98.06	102.88	87.65
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	05/27/04	279.2&7841	---	10.8	85.32	107.5	110.2

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Respectfully Submitted,

Richard Elton

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name: Encycle RCRA Closure
Project Location: Corpus Christi, TX
Laboratory: Analysys
Project Manager: Ken Brandner
Sampler(s)/Affiliation: Adrian Garcia/ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Antimony, cadmium, lead, thallium (1 pt. poly w/ HNO3)						Remarks	Total
BIN N 274697	L	5/25/04 16:00		1						Need low detection limits	1
BIN P 274698	L	5/25/04 16:15		[Hold]						Hold BIN P sample	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 2

Relinquished by: Adrian E. Garcia	Organization: ARCADIS	Date: 05/25/2004	Time: 16:40	Seal Intact?	Yes No (N/A)
Received by: L Flournoy	Organization: QSI	Date: 5/25/04	Time: 1640		
Relinquished by:	Organization:	Date: / /	Time:	Seal Intact?	Yes No N/A
Received by: D Flynn	Organization: ASI	Date: 5/26/04	Time: 0830		

Special Instructions/Remarks: Need 5 day turnaround on BIN N sample

T:2.0 c

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274755 **Report Date:** 06/17/04
Project ID: Encycle RCRA Closure
Sample Name: Bin N
Sample Matrix: water
Date Received: 05/26/2004 **Time:** 16:08
Date Sampled: 05/26/2004 **Time:** 15:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/07/04	3015	---	---	---	---	---
Antimony/ICP	<0.005	mg/L	0.005	<0.005	06/08/04	6010 & 200.7	---	1.72	87.44	97.42	85.04
Cadmium/GFAA	0.0253	mg/L	0.005	<0.005	06/08/04	7131 & 213.2	---	0.78	103.23	105	101.8
Lead/ICP	0.179	mg/L	0.01	<0.01	06/08/04	6010 & 200.7	---	0.14	98.44	95.64	81.86

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Richard Elton

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Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274756 **Report Date:** 06/17/04
Project ID: Encycle RCRA Closure
Sample Name: Bin P
Sample Matrix: water
Date Received: 05/26/2004 **Time:** 16:08
Date Sampled: 05/26/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	06/15/04	3015	---	---	---	---	---
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	06/16/04	6010 & 200.7	J	0.35	108.32	101.26	85.63
Cadmium/GFAA	0.0092	mg/L	0.001	<0.001	06/16/04	7131 & 213.2	---	2.33	91.62	105	100.4

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Exceptions Report:

Report #/Lab ID#: 274756 **Matrix:** water
Client: Arcadis Geraghty & Miller, Inc. **Attn:** Ken Brandner
Project ID: Encycle RCRA Closure
Sample Name: Bin P

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.

Notes: _____

_____

_____

9613

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Encycle RCRA Closure
Project Location Corpus Christi, TX
Laboratory Analysys, Inc.
Project Manager K. Brandrea
Sampler(s)/Affiliation A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Antimony; Cadmium; Lead, Thallium 1pt. poly w/ HNO_3	Antimony; Cadmium; Lead 1pt. poly w/ HNO_3	Remarks	Total
Bin N	L	05-22-2004 15:45	274755	) HOLD (analyze per P.M.)		Hold analyses pending P.M. authorization	1
Bin P	L	16:00	274756	) HOLD (analyze per P.M.)		Hold analyses pending P.M. authorization	1
						(Require Low Detection Limits when analyzed	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 2

Relinquished by: Adrian E. Garcia	Organization: ARCADIS	Date 05/26/2004	Time 16:08	Seal Intact?		
Received by: M. Escamilla	Organization: ASI	Date 05/26/2004	Time 1608	Yes	No	N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?		
Received by: L. Klepper	Organization: ASI	Date 5/27/04	Time 0820	Yes	No	N/A

Special Instructions/Remarks:

T: 20°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274784 **Report Date:** 06/15/04
Project ID: Encycle RCRA Closure
Sample Name: Bin N
Sample Matrix: water
Date Received: 05/27/2004 **Time:** 16:20
Date Sampled: 05/27/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/09/04	3015	---	---	---	---	---
Cadmium/GFAA	0.01	mg/L	0.001	<0.001	06/11/04	7131 & 213.2	---	3.79	90.72	101	98.2
Lead/ICP	0.056	mg/L	0.01	<0.01	06/12/04	6010 & 200.7	---	0.59	94.99	99.3	78.08

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Respectfully Submitted,

Richard Elton

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Hold for possible metals analyses Cl pt. poly w/ HNO3	Ca, Pb					Remarks	Total
Bin N 274784	L	5/27/04 16:00		~~[Hold]~~ Analyze per R. Marcus	X					Hold	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 5/27/04	Time 1620	Seal Intact?	
Received by: L Plowman	Organization: ASI	Date 5/27/04	Time 1620	Yes No N/A	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by: G Flynn	Organization: ASI	Date 5/28/04	Time 0830	Yes No N/A	

Special Instructions/Remarks: Hold for possible metals analysis - do not analyze until notified by ARCADIS or Rich Marcus.

T: 2.8°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 276004 **Report Date:** 07/16/04
Project ID: Encycle RCRA Corrective Action
Sample Name: Bin N
Sample Matrix: water
Date Received: 07/12/2004 **Time:** 14:35
Date Sampled: 07/12/2004 **Time:** 14:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	07/13/04	3015	---	---	---	---	---
Cadmium/ICP	0.0023	mg/L	0.002	<0.002	07/16/04	6010 & 200.7	---	1.08	94.51	99.4	95.13
Lead/ICP	0.0232	mg/L	0.01	<0.01	07/16/04	6010 & 200.7	---	0.81	93.97	99.24	97.12

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: ENVOCLE RCRA CORRECTIVE ACTION

Project Location: CORPUS CHRISTI, TX

Laboratory: ANALYSYS

Project Manager: KEN BRADNER (ARCADIS)

Sampler(s)/Affiliation: JACOB CLEMENTS / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: TOTAL CADMIUM (Cd) & LEAD (Pb) (1ST PREP. w/ HNO3)						Remarks	Total
BIN N	L	7/12/04 14:10	276004	1						NEED LOW DETECTION LIMITS	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

					Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS	Date 7/12/04	Time 14:35		
Received by: L Flournan	Organization: ASI	Date 7/12/04	Time 1435		Yes No (N/A)
Relinquished by:	Organization:	Date / /	Time		Seal Intact?
Received by: D Flynn	Organization: ASI	Date 7/13/04	Time 0845		Yes No N/A

Special Instructions/Remarks: RESULTS TO KEN BRADNER & RICHARD MARCUS

INVOICE TO RICH MARCUS FOR RCRA CORRECTIVE ACTION

5-DAY TURNAROUND TIME

T: 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 276043 **Report Date:** 07/21/04
Project ID: Encycle RCRA Closure
Sample Name: Bin N
Sample Matrix: water
Date Received: 07/13/2004 **Time:** 14:00
Date Sampled: 07/13/2004 **Time:** 13:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	07/16/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	07/20/04	6010 & 200.7	---	2.01	95.26	103.12	100.78

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name ENCYCLE RCRA Closure
Project Location Corpus Christi TX
Laboratory Analytics, Inc
Project Manager Ken Brahner
Sampler(s)/Affiliation J. Clements / Arcadis

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Total Cadmium (Cd) & Lead (Pb)					Remarks	Total
BIN N 276043	L	7/13/04 13:40		1	→	→ HOLD analyze 7/19/04	per K.M	→	Need Low Detection Limits HOLD → DO NOT ANALYZE PENDING NOTIFICATION FROM P.M.	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

					Seal Intact?
Relinquished by: J. Clements	Organization: Arcadis	Date 7/13/04	Time 14:00		
Received by: L. Bowman	Organization: ASI	Date 7/13/04	Time 1700		Yes No N/A
Relinquished by: D. Flynn / A	Organization:	Date 7/14/04	Time 0830		Seal Intact?
Received by:	Organization: ASI	Date	Time		Yes No N/A

Special Instructions/Remarks: NEED 5-DAY TURNAROUND. RESULTS TO K. BRAHNER (ARCADIS) & RICHARD MARCUS (ENCYCLE). INVOICE TO R. MARCUS FOR RCRA CLOSURE T: 2.0 C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

SEVERN TRENT STL

RECEIVED
MAY 10 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 224295

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 05/06/2004

Olga Verónica McDonald
Signature

5/6/04
Date

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 48

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 05/06/2004

Job Number.: 224295
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224295-1	BIN R	Water	04/14/2004	16:10	04/14/2004	16:57
224295-2	BIN P	Water	04/14/2004	16:30	04/14/2004	16:57
224295-3	BIN P DUPLICATE	Water	04/14/2004	16:30	04/14/2004	16:57

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224295

Date: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN R
Date Sampled.....: 04/14/2004
Time Sampled.....: 16:10
Sample Matrix.....: Water

Laboratory Sample ID: 224295-1
Date Received.....: 04/14/2004
Time Received.....: 16:57

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/20/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/15/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	04/19/04	jem
SW-846 6010B	Chromium (Cr), Total	0.02	0.01	mg/L	04/19/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Copper (Cu), Total	0.18	0.01	mg/L	04/23/04	jem
SW-846 6010B	Lead (Pb), Total	0.88	0.01	mg/L	04/19/04	jem
SW-846 6010B	Manganese (Mn), Total	0.03	0.01	mg/L	04/19/04	jem
SW-846 6010B	Nickel (Ni), Total	0.16	0.01	mg/L	04/19/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/19/04	jem
SW-846 6010B	Tin (Sn), Total	0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Zinc (Zn), Total	1.48	0.01	mg/L	04/19/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/16/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224295 Date: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN P
Date Sampled.....: 04/14/2004
Time Sampled.....: 16:30
Sample Matrix.....: Water

Laboratory Sample ID: 224295-2
Date Received.....: 04/14/2004
Time Received.....: 16:57

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/20/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/15/04	dev
SW-846 6010B	Arsenic (As), Total	0.07	0.01	mg/L	04/19/04	jem
SW-846 6010B	Barium (Ba), Total	0.06	0.01	mg/L	04/19/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Cobalt (Co), Total	0.02	0.01	mg/L	04/19/04	jem
SW-846 6010B	Copper (Cu), Total	0.73	0.01	mg/L	04/23/04	jem
SW-846 6010B	Lead (Pb), Total	1.23	0.01	mg/L	04/19/04	jem
SW-846 6010B	Manganese (Mn), Total	0.03	0.01	mg/L	04/19/04	jem
SW-846 6010B	Nickel (Ni), Total	0.11	0.01	mg/L	04/19/04	jem
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/19/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Zinc (Zn), Total	1.41	0.01	mg/L	04/19/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/16/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 224295 Date: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN P DUPLICATE
Date Sampled.....: 04/14/2004
Time Sampled.....: 16:30
Sample Matrix.....: Water

Laboratory Sample ID: 224295-3
Date Received.....: 04/14/2004
Time Received.....: 16:57

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/20/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/15/04	dev
SW-846 6010B	Arsenic (As), Total	0.12	0.01	mg/L	04/19/04	jem
SW-846 6010B	Barium (Ba), Total	0.07	0.01	mg/L	04/19/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Cobalt (Co), Total	0.03	0.01	mg/L	04/19/04	jem
SW-846 6010B	Copper (Cu), Total	1.27	0.01	mg/L	04/23/04	jem
SW-846 6010B	Lead (Pb), Total	2.23	0.01	mg/L	04/19/04	jem
SW-846 6010B	Manganese (Mn), Total	0.05	0.01	mg/L	04/19/04	jem
SW-846 6010B	Nickel (Ni), Total	0.16	0.01	mg/L	04/19/04	jem
SW-846 6010B	Selenium (Se), Total	0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/19/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/23/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/19/04	jem
SW-846 6010B	Zinc (Zn), Total	2.91	0.01	mg/L	04/19/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/16/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92723 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		MO42004HG	0.00485		0.00500		97.0	%	90-110	04/20/2004	1533
ICB			-0.000173							04/20/2004	1537
LCS		MO42004LG	0.00537		0.0050		107.4	%	85-115	04/20/2004	1540
MB			0.000193							04/20/2004	1544
MS	224198-3	MO42004HG	0.00581		0.00500	0.000279	110.6	%	75-125	04/20/2004	1601
MSD	224198-3	MO42004HG	0.00570	0.00581	0.00500	0.000279	108.4	%	75-125	04/20/2004	1602
							1.9	R	20		
CCV		MO42004HG	0.00505		0.00500		101.0	%	80-120	04/20/2004	1606
CCB			-0.000096							04/20/2004	1609
CCV		MO42004HG	0.00485		0.00500		97.0	%	80-120	04/20/2004	1628
CCB			-0.000180							04/20/2004	1630
LCS		MO42004LG	0.00481		0.0050		96.2	%	85-115	04/20/2004	1633
MB			-0.000085							04/20/2004	1635
MS	224297-3	MO42004HG	0.00530		0.00500	0.000134	103.3	%	75-125	04/20/2004	1655
MSD	224297-3	MO42004HG	0.00556	0.00530	0.00500	0.000134	108.5	%	75-125	04/20/2004	1657
							4.8	R	20		
CCV		MO42004HG	0.00482		0.00500		96.4	%	80-120	04/20/2004	1707
CCB			-0.000097							04/20/2004	1712
CCV		MO42004HG	0.00469		0.00500		93.8	%	80-120	04/20/2004	1731
CCB			-0.000082							04/20/2004	1735
LCS		MO42004LG	0.00512		0.0050		102.4	%	85-115	04/20/2004	1736
MB			-0.000109							04/20/2004	1738
CCV		MO42004HG	0.00478		0.00500		95.6	%	80-120	04/20/2004	1757
CCB			-0.000184							04/20/2004	1759
MS	224278-5	MO42004HG	0.00488		0.00500	0.000297	91.7	%	75-125	04/20/2004	1809
MSD	224278-5	MO42004HG	0.00486	0.00488	0.00500	0.000297	91.3	%	75-125	04/20/2004	1810
							0.4	R	20		
CCV		MO42004HG	0.00495		0.00500		99.0	%	80-120	04/20/2004	1826
CCB			0.000084							04/20/2004	1828

Test Method.....: EPA 335.3 Batch.....: 92553 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		041504	-0.0012							04/15/2004	1400
CCV		CN40415E	0.4197		0.4000		104.9	%	90-110	04/15/2004	1401
MB		041504	0.0023							04/15/2004	1403
LCS		CN40415P	0.0486		0.05000		97.2	%	76-117	04/15/2004	1404
LCS		CN40415Q	0.0992		0.1000		99.2	%	76-117	04/15/2004	1406
LCS		CN40415R	0.1927		0.2000		96.3	%	76-117	04/15/2004	1407
MS	224165-1	CN40415S	0.0319		0.05000	0.0037	56.4	%	75-125	04/15/2004	1410
MSD	224165-1	CN40415S	0.0313	0.0319	0.05000	0.0037	55.2	%	75-125	04/15/2004	1411
							1.9	R	20		
MB		EX40216X	0.13							04/15/2004	1420
MS	224215-1	CN40415T	13.845		2.500	13.045	32.0	%	75-125	04/15/2004	1423
MSD	224215-1	CN40415T	13.990	13.845	2.500	13.045	37.8	%	75-125	04/15/2004	1424
							1.0	R	20		
CCB		041504	-0.0002							04/15/2004	1426
CCV		CN40415E	0.4104		0.4000		102.6	%	90-110	04/15/2004	1427

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98356269		2.00		99.2	%	90-110	04/19/2004	1041
ICV		M0368	0.97945018		1.00		97.9	%	90-110	04/19/2004	1055
ICV		M0380	1.02777019		1.00		102.8	%	90-110	04/19/2004	1110
ICB			-0.0036086							04/19/2004	1145
CCV		M0379	0.99866396		1.00		99.9	%	90-110	04/19/2004	1154
CCB			-0.0069632							04/19/2004	1206
MB		3051	-0.0056753							04/19/2004	1209
LCS		M351	0.50179495		0.500		100.4	%	85-110	04/19/2004	1213
MS	224244-1	M351	0.37007944		0.500	-0.1012864	94.3	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.42682230	0.37007944	0.500	-0.1012864	105.6	%	75-125	04/19/2004	1229
							14.2	R	20		
CCV		M0388	1.00618383		1.00		100.6	%	90-110	04/19/2004	1314
CCB			-0.0026955							04/19/2004	1326
MB		3050	-0.0020939							04/19/2004	1351
LCS		M351	0.50411707		0.500		100.8	%	85-110	04/19/2004	1357
SB		M383D	2.23472269		2.31		96.7	%	80-120	04/19/2004	1403
CCV		M0379	1.00708720		1.00		100.7	%	90-110	04/19/2004	1424
CCB			-0.0039702							04/19/2004	1432
CCV		M0388	1.00248684		1.00		100.2	%	90-110	04/19/2004	1510
CCB			-0.0065882							04/19/2004	1522
CCV		M0388	0.98190309		1.00		98.2	%	90-110	04/19/2004	1606
CCB			-0.0001412							04/19/2004	1617
MS	224341-1	M351	0.54532510		0.500	0.06198705	96.7	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.55867578	0.54532510	0.500	0.06198705	99.3	%	75-125	04/19/2004	1626
							2.4	R	20		
MB		3010	0.00132304							04/19/2004	1635
LCS		M351	0.50579087		0.500		101.2	%	85-110	04/19/2004	1642
CCV		M0388	0.98837127		1.00		98.8	%	90-110	04/19/2004	1709
CCB			-0.0019642							04/19/2004	1718
MS	224302-1	M351	0.54398065		0.500	0.00345774	108.1	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.54581787	0.54398065	0.500	0.00345774	108.5	%	75-125	04/19/2004	1736
							0.3	R	20		
CCV		M0388	0.98669459		1.00		98.7	%	90-110	04/19/2004	1806
CCB			-0.0031966							04/19/2004	1818
MB		3010	-0.0054483							04/19/2004	1852
CCV		M0388	0.98872866		1.00		98.9	%	90-110	04/19/2004	1859
CCB			-0.0038355							04/19/2004	1910
MB		3010.	-0.0051335							04/19/2004	1914
LCS		M351	0.51314174		0.500		102.6	%	85-110	04/19/2004	1917
MS	224309-7	M348	0.60733719		0.500	0.06712250	108.0	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.59687305	0.60733719	0.500	0.06712250	106.0	%	75-125	04/19/2004	1944
							1.7	R	20		
CCV		M0388	0.99279301		1.00		99.3	%	90-110	04/19/2004	2000
CCB			-0.0008612							04/19/2004	2012
MB		3051	-0.0040666							04/19/2004	2016
LCS		M351	0.44348248		0.500		88.7	%	85-110	04/19/2004	2019
MS	224133-1	M351	0.30135114		0.500	-0.1876650	97.8	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.29780091	0.30135114	0.500	-0.1876650	97.1	%	75-125	04/19/2004	2032
							1.2	R	20		
CCV		M0388	0.98515407		1.00		98.5	%	90-110	04/19/2004	2054
CCB			-0.0038156							04/19/2004	2100
MB		3050	-0.0034110							04/19/2004	2119
LCS		M351	0.50599212		0.500		101.2	%	85-110	04/19/2004	2126

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
SB		M383D	2.20772536		2.31		95.6	%	80-120	04/19/2004	2131
MS	224346-4	M351	0.50977564		0.500	0.03171022	95.6	%	75-125	04/19/2004	2146
CCV		M0388	0.99671603		1.00		99.7	%	90-110	04/19/2004	2201
CCB			-0.0029570							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.03673924		2.00		101.8	%	90-110	04/19/2004	1041
ICV		M0369	0.98274142		1.00		98.3	%	90-110	04/19/2004	1101
ICB			-0.0031938							04/19/2004	1145
CCV		M0379	1.03435819		1.00		103.4	%	90-110	04/19/2004	1154
CCB			-0.0032137							04/19/2004	1206
MB		3051	-0.0034570							04/19/2004	1209
LCS		M351	0.51892168		0.500		103.8	%	90-110	04/19/2004	1213
MS	224244-1	M351	0.44477587		0.500	0.00014550	88.9	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.52453447	0.44477587	0.500	0.00014550	104.9	%	75-125	04/19/2004	1229
							16.5	R	20		
CCV		M0388	1.03232617		1.00		103.2	%	90-110	04/19/2004	1314
CCB			-0.0035192							04/19/2004	1326
MB		3050	-0.0034103							04/19/2004	1351
LCS		M351	0.52411045		0.500		104.8	%	90-110	04/19/2004	1357
SB		M383D	9.06187715		10.00		90.6	%	80-120	04/19/2004	1403
CCV		M0379	1.02977244		1.00		103.0	%	90-110	04/19/2004	1424
CCB			-0.0034268							04/19/2004	1432
CCV		M0388	1.02904881		1.00		102.9	%	90-110	04/19/2004	1510
CCB			-0.0031208							04/19/2004	1522
CCV		M0388	0.99231934		1.00		99.2	%	90-110	04/19/2004	1606
CCB			-0.0033419							04/19/2004	1617
MS	224341-1	M351	1.73527242		0.500	1.15010123	117.0	%	75-125	04/19/2004	1621
MSD	224341-1	M351	1.72981483	1.73527242	0.500	1.15010123	115.9	%	75-125	04/19/2004	1626
							0.3	R	20		
MB		3010	-0.0031534							04/19/2004	1635
LCS		M351	0.51368883		0.500		102.7	%	90-110	04/19/2004	1642
CCV		M0388	1.00922439		1.00		100.9	%	90-110	04/19/2004	1709
CCB			-0.0033188							04/19/2004	1718
MS	224302-1	M351	0.58793533		0.500	0.07876573	101.8	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.58667559	0.58793533	0.500	0.07876573	101.6	%	75-125	04/19/2004	1736
							0.2	R	20		
CCV		M0388	1.00101557		1.00		100.1	%	90-110	04/19/2004	1806
CCB			-0.0035416							04/19/2004	1818
MB		3010	-0.0022012							04/19/2004	1852
CCV		M0388	0.99673106		1.00		99.7	%	90-110	04/19/2004	1859
CCB			-0.0033708							04/19/2004	1910
MB		3010.	-0.0024270							04/19/2004	1914
LCS		M351	0.54784045		0.500		109.6	%	90-110	04/19/2004	1917
MS	224309-7	M348	6.64969549		0.500	6.16391071	97.2	%	75-125	04/19/2004	1939
MSD	224309-7	M348	6.35057325	6.64969549	0.500	6.16391071	37.3	%	75-125	04/19/2004	1944
							4.6	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.00817427		1.00		100.8	%	90-110	04/19/2004	2000
CCB			-0.0033894							04/19/2004	2012
MB		3051	-0.0035829							04/19/2004	2016
LCS		M351	0.45478580		0.500		91.0	%	90-110	04/19/2004	2019
MS	224133-1	M351	0.44880035		0.500	0.00167680	89.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43758262	0.44880035	0.500	0.00167680	87.2	%	75-125	04/19/2004	2032
							2.5	R	20		
CCV		M0388	1.00220884		1.00		100.2	%	90-110	04/19/2004	2054
CCB			-0.0032359							04/19/2004	2100
MB		3050	-0.0036118							04/19/2004	2119
LCS		M351	0.50843617		0.500		101.7	%	90-110	04/19/2004	2126
SB		M383D	9.03727592		10.00		90.4	%	80-120	04/19/2004	2131
CCV		M0388	1.00314606		1.00		100.3	%	90-110	04/19/2004	2201
CCB			-0.0034443							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.03269196		2.00		101.6	%	90-110	04/19/2004	1041
ICV		M0368	1.01672522		1.00		101.7	%	90-110	04/19/2004	1055
ICV		M0380	1.03511118		1.00		103.5	%	90-110	04/19/2004	1110
ICB			-0.0031570							04/19/2004	1145
ICV		M368B	0.53344953		0.500		106.7	%	90-110	04/19/2004	1149
CCV		M0379	1.02553352		1.00		102.6	%	90-110	04/19/2004	1154
CCB			-0.0034118							04/19/2004	1206
MB		3051	-0.0037220							04/19/2004	1209
LCS		M351	0.52066826		0.500		104.1	%	90-110	04/19/2004	1213
MS	224244-1	M351	0.45378953		0.500	-0.0007957	90.9	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.53187932	0.45378953	0.500	-0.0007957	106.5	%	75-125	04/19/2004	1229
							15.8	R	20		
CCV		M0388	1.02723914		1.00		102.7	%	90-110	04/19/2004	1314
CCB			-0.0032936							04/19/2004	1326
MB		3050	-0.0035706							04/19/2004	1351
LCS		M351	0.51834856		0.500		103.7	%	90-110	04/19/2004	1357
SB		M383D	1.89374981		2.07		91.5	%	80-120	04/19/2004	1403
CCV		M0379	1.02708139		1.00		102.7	%	90-110	04/19/2004	1424
CCB			-0.0032731							04/19/2004	1432
CCV		M0388	1.02233747		1.00		102.2	%	90-110	04/19/2004	1510
CCB			-0.0029474							04/19/2004	1522
CCV		M0388	0.98868358		1.00		98.9	%	90-110	04/19/2004	1606
CCB			-0.0000236							04/19/2004	1617
MS	224341-1	M351	0.85655376		0.500	0.28633652	114.0	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.74213489	0.85655376	0.500	0.28633652	91.2	%	75-125	04/19/2004	1626
							14.3	R	20		
MB		3010	-0.0010862							04/19/2004	1635
LCS		M351	0.51218882		0.500		102.4	%	90-110	04/19/2004	1642
CCV		M0388	1.00194369		1.00		100.2	%	90-110	04/19/2004	1709
CCB			-0.0026358							04/19/2004	1718
MS	224302-1	M351	0.50858642		0.500	-0.0015007	102.0	%	75-125	04/19/2004	1731

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224302-1	M351	0.50902475	0.50858642	0.500	-0.0015007	102.1	%	75-125	04/19/2004	1736
							0.1	R	20		
CCV		M0388	1.00634844		1.00		100.6	%	90-110	04/19/2004	1806
CCB			-0.0029649							04/19/2004	1818
MB		3010	-0.0034676							04/19/2004	1852
CCV		M0388	1.00553969		1.00		100.6	%	90-110	04/19/2004	1859
CCB			-0.0025220							04/19/2004	1910
MS	224309-7	M348	0.51559518		0.500	0.00028978	103.1	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.49240249	0.51559518	0.500	0.00028978	98.4	%	75-125	04/19/2004	1944
							4.6	R	20		
CCV		M0388	1.00929997		1.00		100.9	%	90-110	04/19/2004	2000
CCB			-0.0037177							04/19/2004	2012
MB		3051	-0.0031503							04/19/2004	2016
LCS		M351	0.45730020		0.500		91.5	%	90-110	04/19/2004	2019
MS	224133-1	M351	0.45394453		0.500	-0.0012070	91.0	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.44348747	0.45394453	0.500	-0.0012070	88.9	%	75-125	04/19/2004	2032
							2.3	R	20		
CCV		M0388	1.00788152		1.00		100.8	%	90-110	04/19/2004	2054
CCB			-0.0027905							04/19/2004	2100
MB		3050	-0.0039052							04/19/2004	2119
LCS		M351	0.50439880		0.500		100.9	%	90-110	04/19/2004	2126
SB		M383D	1.98520287		2.07		95.9	%	80-120	04/19/2004	2131
CCV		M0388	1.00718364		1.00		100.7	%	90-110	04/19/2004	2201
CCB			-0.0039624							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02072958		2.00		101.0	%	90-110	04/19/2004	1041
ICV		M0368	1.01561899		1.00		101.6	%	90-110	04/19/2004	1055
ICV		M0380	1.06618835		1.00		106.6	%	90-110	04/19/2004	1110
ICB			-0.0033615							04/19/2004	1145
CCV		M0379	0.99787584		1.00		99.8	%	90-110	04/19/2004	1154
CCB			-0.0032375							04/19/2004	1206
MB		3051	-0.0032381							04/19/2004	1209
LCS		M351	0.51400832		0.500		102.8	%	90-110	04/19/2004	1213
CCV		M0388	1.00761657		1.00		100.8	%	90-110	04/19/2004	1314
CCB			-0.0031037							04/19/2004	1326
MB		3050	-0.0032787							04/19/2004	1351
LCS		M351	0.50443348		0.500		100.9	%	90-110	04/19/2004	1357
SB		M383D	1.92735714		2.10		91.8	%	80-120	04/19/2004	1403
CCV		M0379	1.01178430		1.00		101.2	%	90-110	04/19/2004	1424
CCB			-0.0034297							04/19/2004	1432
CCV		M0388	0.99653781		1.00		99.7	%	90-110	04/19/2004	1510
CCB			-0.0033511							04/19/2004	1522
CCV		M0388	0.97348459		1.00		97.3	%	90-110	04/19/2004	1606
CCB			-0.0032703							04/19/2004	1617
MS	224341-1	M351	0.53599000		0.500	0.06162533	94.9	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.52678240	0.53599000	0.500	0.06162533	93.0	%	75-125	04/19/2004	1626
							1.7	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0035132							04/19/2004	1635
LCS		M351	0.50851567		0.500		101.7	%	90-110	04/19/2004	1642
CCV		M0388	0.99033911		1.00		99.0	%	90-110	04/19/2004	1709
CCB			-0.0039762							04/19/2004	1718
MS	224302-1	M351	0.49404958		0.500	-0.0003413	98.9	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.49643824	0.49404958	0.500	-0.0003413	99.4	%	75-125	04/19/2004	1736
							0.5	R	20		
CCV		M0388	1.00042804		1.00		100.0	%	90-110	04/19/2004	1806
CCB			-0.0034716							04/19/2004	1818
MB		3010	-0.0035982							04/19/2004	1852
CCV		M0388	1.00162486		1.00		100.2	%	90-110	04/19/2004	1859
CCB			-0.0036171							04/19/2004	1910
MB		3010.	-0.0036302							04/19/2004	1914
LCS		M351	0.51814992		0.500		103.6	%	90-110	04/19/2004	1917
MS	224309-7	M348	0.47640484		0.500	-0.0024485	95.8	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.47088659	0.47640484	0.500	-0.0024485	94.7	%	75-125	04/19/2004	1944
							1.2	R	20		
CCV		M0388	0.99543655		1.00		99.5	%	90-110	04/19/2004	2000
CCB			-0.0039191							04/19/2004	2012
MB		3051	-0.0030452							04/19/2004	2016
LCS		M351	0.44989810		0.500		90.0	%	90-110	04/19/2004	2019
MS	224133-1	M351	0.43972340		0.500	-0.0037587	88.7	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43730044	0.43972340	0.500	-0.0037587	88.2	%	75-125	04/19/2004	2032
							0.6	R	20		
CCV		M0388	0.99387818		1.00		99.4	%	90-110	04/19/2004	2054
CCB			-0.0036859							04/19/2004	2100
MB		3050	-0.0037663							04/19/2004	2119
LCS		M351	0.50379708		0.500		100.8	%	90-110	04/19/2004	2126
SB		M383D	2.00699523		2.10		95.6	%	80-120	04/19/2004	2131
CCV		M0388	0.99440922		1.00		99.4	%	90-110	04/19/2004	2201
CCB			-0.0032991							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98303100		2.00		99.2	%	90-110	04/23/2004	1346
ICV		M0368	1.04831775		1.00		104.8	%	90-110	04/23/2004	1405
ICV		M0380	1.04841172		1.00		104.8	%	90-110	04/23/2004	1413
CCV		M0388	1.00124739		1.00		100.1	%	90-110	04/23/2004	1448
CCB			-0.0066640							04/23/2004	1501
ICV		M368B	0.50508963		0.500		101.0	%	90-110	04/23/2004	1602
CCV		M0388	1.01999796		1.00		102.0	%	90-110	04/23/2004	1607
CCB			-0.0091972							04/23/2004	1612
MB		3010	-0.0109863							04/23/2004	1623
LCS		M351	0.54097443		0.500		108.2	%	89-112	04/23/2004	1627
CCB			-0.0127333							04/23/2004	1632
MB		3010	-0.0086375							04/23/2004	1648
MB		3010.	-0.0027009							04/23/2004	1651
LCS		M351	0.52400917		0.500		104.8	%	89-112	04/23/2004	1655

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.01685032		1.00		101.7	%	90-110	04/23/2004	1712
CCB			-0.0114058							04/23/2004	1726
MS	224389-3	M351	0.59542751		0.500	-0.0085264	120.8	%	75-125	04/23/2004	1740
MSD	224389-3	M351	0.58802046	0.59542751	0.500	-0.0085264	119.3	%	75-125	04/23/2004	1745
							1.3	R	20		
CCV		M0388	1.03345700		1.00		103.3	%	90-110	04/23/2004	1813
CCB			-0.0153600							04/23/2004	1826
CCV		M0388	1.03600797		1.00		103.6	%	90-110	04/23/2004	1909
CCB			-0.0151893							04/23/2004	1914
MB		3010.	-0.0108481							04/23/2004	1936
LCS		M351	0.53079076		0.500		106.2	%	89-112	04/23/2004	1940
MS	224400-2	M351	0.97667021		0.500	0.44867205	105.6	%	75-125	04/23/2004	1953
MSD	224400-2	M351	0.98743003	0.97667021	0.500	0.44867205	107.8	%	75-125	04/23/2004	1959
							1.1	R	20		
CCV		M0388	1.02917647		1.00		102.9	%	90-110	04/23/2004	2013
CCB			-0.0158839							04/23/2004	2026
MB		3010	-0.0146758							04/23/2004	2029
LCS		M351	0.54981808		0.500		110.0	%	89-112	04/23/2004	2033
MB		3010	-0.0139113							04/23/2004	2053
LCS		M351	0.50407729		0.500		100.8	%	89-112	04/23/2004	2059
B			-0.0125713							04/23/2004	2104
CCV		M0388	1.03260404		1.00		103.3	%	90-110	04/23/2004	2122
CCB			-0.0157237							04/23/2004	2136
MD	224404-6		0.00289813			-0.0110401	0.01393823	A	0.0100000	04/23/2004	2142
MS	224404-6	M351	0.53073736		0.500	-0.0110401	108.4	%	75-125	04/23/2004	2149
MSD	224404-6	M351	0.51299468	0.53073736	0.500	-0.0110401	104.8	%	75-125	04/23/2004	2154
							3.4	R	20		
MB		3010	-0.0166585							04/23/2004	2204
LCS		M351	0.53057549		0.500		106.1	%	89-112	04/23/2004	2211
CCV		M0388	1.02913150		1.00		102.9	%	90-110	04/23/2004	2228
CCB			-0.0158181							04/23/2004	2241
MS	224401-1	M351	0.51315847		0.500	-0.0142642	105.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	0.49500681	0.51315847	0.500	-0.0142642	101.9	%	75-125	04/23/2004	2253
							3.6	R	20		
CCV		M0388	1.04136838		1.00		104.1	%	90-110	04/23/2004	2322
CCB			-0.0155988							04/23/2004	2333
CCV		M0388	1.00907722		1.00		100.9	%	90-110	04/24/2004	0014
CCB			-0.0175836							04/24/2004	0028

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02786386		2.00		101.4	%	90-110	04/19/2004	1041
ICV		M0368	1.03566328		1.00		103.6	%	90-110	04/19/2004	1055
ICV		M0380	1.05682946		1.00		105.7	%	90-110	04/19/2004	1110
ICB			-0.0169356							04/19/2004	1145
ICV		M368B	0.52418814		0.500		104.8	%	90-110	04/19/2004	1149
CCV		M0379	1.01298820		1.00		101.3	%	90-110	04/19/2004	1154
CCB			-0.0198612							04/19/2004	1206

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3051	-0.0199958							04/19/2004	1209
LCS		M351	0.52762888		0.500		105.5	%	87-112	04/19/2004	1213
MS	224244-1	M351	0.46400898		0.500	0.00906925	91.0	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.52069948	0.46400898	0.500	0.00906925	102.3	%	75-125	04/19/2004	1229
							11.5	R	20		
CCV		M0388	1.01736015		1.00		101.7	%	90-110	04/19/2004	1314
CCB			-0.0218277							04/19/2004	1326
MB		3050	-0.0194990							04/19/2004	1351
LCS		M351	0.54583155		0.500		109.2	%	87-112	04/19/2004	1357
SB		M383D	1.83318505		2.04		89.9	%	80-120	04/19/2004	1403
CCV		M0379	1.01564389		1.00		101.6	%	90-110	04/19/2004	1424
CCB			-0.0189265							04/19/2004	1429
CCV		M0388	0.99625584		1.00		99.6	%	90-110	04/19/2004	1510
CCB			-0.0238986							04/19/2004	1522
CCV		M0388	0.96889364		1.00		96.9	%	90-110	04/19/2004	1606
CCB			-0.0227177							04/19/2004	1617
MS	224341-1	M351	0.73422706		0.500	0.39220689	68.4	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.72312754	0.73422706	0.500	0.39220689	66.2	%	75-125	04/19/2004	1626
							1.5	R	20		
MB		3010	-0.0200516							04/19/2004	1635
LCS		M351	0.49051808		0.500		98.1	%	87-112	04/19/2004	1642
CCV		M0388	0.97684262		1.00		97.7	%	90-110	04/19/2004	1709
CCB			-0.0236598							04/19/2004	1718
MS	224302-1	M351	0.46894014		0.500	-0.0219401	98.2	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.47369196	0.46894014	0.500	-0.0219401	99.1	%	75-125	04/19/2004	1736
							1.0	R	20		
CCV		M0388	0.99528739		1.00		99.5	%	90-110	04/19/2004	1806
CCB			-0.0212410							04/19/2004	1811
MB		3010	-0.0234971							04/19/2004	1852
CCV		M0388	0.98786782		1.00		98.8	%	90-110	04/19/2004	1859
CCB			-0.0222129							04/19/2004	1904
MB		3010.	-0.0242190							04/19/2004	1914
LCS		M351	0.50399680		0.500		100.8	%	87-112	04/19/2004	1917
MS	224309-7	M348	0.46503840		0.500	-0.0165528	96.3	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.46134691	0.46503840	0.500	-0.0165528	95.6	%	75-125	04/19/2004	1944
							0.8	R	20		
CCV		M0388	0.98945846		1.00		98.9	%	90-110	04/19/2004	2000
CCB			-0.0255992							04/19/2004	2012
MB		3051	-0.0256742							04/19/2004	2016
LCS		M351	0.43627127		0.500		87.3	%	87-112	04/19/2004	2019
MS	224133-1	M351	0.41802334		0.500	-0.0241447	88.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.41503974	0.41802334	0.500	-0.0241447	87.8	%	75-125	04/19/2004	2032
							0.7	R	20		
CCV		M0388	0.98493111		1.00		98.5	%	90-110	04/19/2004	2054
CCB			-0.0243497							04/19/2004	2100
MB		3050	-0.0257034							04/19/2004	2119
LCS		M351	0.51817358		0.500		103.6	%	87-112	04/19/2004	2126
SB		M383D	1.89137816		2.04		92.7	%	80-120	04/19/2004	2131
CCV		M0388	0.98995786		1.00		99.0	%	90-110	04/19/2004	2201
CCB			-0.0245341							04/19/2004	2212

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00631273		2.00		100.3	%	90-110	04/19/2004	1041
ICV		M0368	0.99287246		1.00		99.3	%	90-110	04/19/2004	1055
ICV		M0380	1.02349996		1.00		102.3	%	90-110	04/19/2004	1110
ICB			-0.0051977							04/19/2004	1145
CCV		M0379	1.02005200		1.00		102.0	%	90-110	04/19/2004	1154
CCB			-0.0050668							04/19/2004	1206
MB		3051	-0.0050021							04/19/2004	1209
LCS		M351	0.51035190		0.500		102.1	%	88-110	04/19/2004	1213
CCV		M0388	1.01901695		1.00		101.9	%	90-110	04/19/2004	1314
CCB			-0.0053781							04/19/2004	1326
MB		3050	-0.0047267							04/19/2004	1351
LCS		M351	0.53440684		0.500		106.9	%	88-110	04/19/2004	1357
SB		M383D	5.19994008		5.68		91.5	%	80-120	04/19/2004	1403
CCV		M0379	1.02036167		1.00		102.0	%	90-110	04/19/2004	1424
CCB			-0.0049781							04/19/2004	1432
CCV		M0388	1.01235201		1.00		101.2	%	90-110	04/19/2004	1510
CCB			-0.0056278							04/19/2004	1522
CCV		M0388	0.97704840		1.00		97.7	%	90-110	04/19/2004	1606
CCB			-0.0057950							04/19/2004	1617
MS	224341-1	M351	4.40405297		0.500	3.70532692	139.7	%	75-125	04/19/2004	1621
MSD	224341-1	M351	4.54442155	4.40405297	0.500	3.70532692	167.8	%	75-125	04/19/2004	1626
							3.1	R	20		
MB		3010	-0.0054588							04/19/2004	1635
LCS		M351	0.50615827		0.500		101.2	%	88-110	04/19/2004	1642
CCV		M0388	0.99524873		1.00		99.5	%	90-110	04/19/2004	1709
CCB			-0.0057399							04/19/2004	1718
MS	224302-1	M351	1.05222316		0.500	0.56444651	97.6	%	75-125	04/19/2004	1731
MSD	224302-1	M351	1.07555389	1.05222316	0.500	0.56444651	102.2	%	75-125	04/19/2004	1736
							2.2	R	20		
CCV		M0388	1.00490005		1.00		100.5	%	90-110	04/19/2004	1806
CCB			-0.0055962							04/19/2004	1818
MB		3010	-0.0013886							04/19/2004	1852
CCV		M0388	1.00959241		1.00		101.0	%	90-110	04/19/2004	1859
CCB			-0.0041590							04/19/2004	1910
MB		3010.	-0.0044738							04/19/2004	1914
LCS		M351	0.54447385		0.500		108.9	%	88-110	04/19/2004	1917
MS	224309-7	M348	6.10879753		0.500	5.63704612	94.4	%	75-125	04/19/2004	1939
MSD	224309-7	M348	5.82348184	6.10879753	0.500	5.63704612	37.3	%	75-125	04/19/2004	1944
							4.8	R	20		
CCV		M0388	1.00020925		1.00		100.0	%	90-110	04/19/2004	2000
CCB			-0.0050004							04/19/2004	2012
MB		3051	-0.0051465							04/19/2004	2016
LCS		M351	0.44987865		0.500		90.0	%	88-110	04/19/2004	2019
MS	224133-1	M351	0.44236045		0.500	-0.0056480	89.6	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43318850	0.44236045	0.500	-0.0056480	87.8	%	75-125	04/19/2004	2032
							2.1	R	20		
CCV		M0388	0.99704564		1.00		99.7	%	90-110	04/19/2004	2054
CCB			-0.0053431							04/19/2004	2100
MB		3050	-0.0056361							04/19/2004	2119
LCS		M351	0.52508414		0.500		105.0	%	88-110	04/19/2004	2126
SB		M383D	5.36268924		5.68		94.4	%	80-120	04/19/2004	2131
CCV		M0388	0.99736935		1.00		99.7	%	90-110	04/19/2004	2201
CCB			-0.0055548							04/19/2004	2212

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02108128		2.00		101.1	%	90-110	04/19/2004	1041
ICV		M0368	1.02844814		1.00		102.8	%	90-110	04/19/2004	1055
ICV		M0380	1.05648010		1.00		105.6	%	90-110	04/19/2004	1110
ICB			-0.0038468							04/19/2004	1145
ICV		M368B	0.53990751		0.500		108.0	%	90-110	04/19/2004	1149
CCV		M0379	1.02566855		1.00		102.6	%	90-110	04/19/2004	1154
CCB			-0.0038377							04/19/2004	1206
MB		3051	-0.0036413							04/19/2004	1209
LCS		M351	0.51384456		0.500		102.8	%	90-112	04/19/2004	1213
CCV		M0388	1.03355003		1.00		103.4	%	90-110	04/19/2004	1314
CCB			-0.0042963							04/19/2004	1326
MB		3050	-0.0034942							04/19/2004	1351
LCS		M351	0.51893767		0.500		103.8	%	90-112	04/19/2004	1357
SB		M383D	1.73596269		1.89		91.8	%	80-120	04/19/2004	1403
CCV		M0379	1.03042559		1.00		103.0	%	90-110	04/19/2004	1424
CCB			-0.0040823							04/19/2004	1432
CCV		M0388	1.01694510		1.00		101.7	%	90-110	04/19/2004	1510
CCB			-0.0040139							04/19/2004	1522
CCV		M0388	0.99371793		1.00		99.4	%	90-110	04/19/2004	1606
CCB			0.00036751							04/19/2004	1617
MS	224341-1	M351	0.64358542		0.500	0.12199296	104.3	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.61852110	0.64358542	0.500	0.12199296	99.3	%	75-125	04/19/2004	1626
							4.0	R	20		
MB		3010	0.00058772							04/19/2004	1635
LCS		M351	0.51537394		0.500		103.1	%	90-112	04/19/2004	1642
CCV		M0388	1.00993367		1.00		101.0	%	90-110	04/19/2004	1709
CCB			-0.0012447							04/19/2004	1718
MS	224302-1	M351	0.50338206		0.500	0.01139648	98.4	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.50140722	0.50338206	0.500	0.01139648	98.0	%	75-125	04/19/2004	1736
							0.4	R	20		
CCV		M0388	1.01951201		1.00		102.0	%	90-110	04/19/2004	1806
CCB			0.00139860							04/19/2004	1818
MB		3010	0.00783065							04/19/2004	1852
CCV		M0388	1.01470067		1.00		101.5	%	90-110	04/19/2004	1859
CCB			0.00185257							04/19/2004	1910
MB		3010.	0.00133902							04/19/2004	1914
LCS		M351	0.55934852		0.500		111.9	%	90-112	04/19/2004	1917
MS	224309-7	M348	0.50486383		0.500	0.02196785	96.6	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.48388597	0.50486383	0.500	0.02196785	92.4	%	75-125	04/19/2004	1944
							4.2	R	20		
CCV		M0388	1.00646065		1.00		100.6	%	90-110	04/19/2004	2000
CCB			-0.0015246							04/19/2004	2012
MB		3051	-0.0015628							04/19/2004	2016
LCS		M351	0.45297715		0.500		90.6	%	90-112	04/19/2004	2019
MS	224133-1	M351	0.44040909		0.500	-0.0029879	88.7	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.43409915	0.44040909	0.500	-0.0029879	87.4	%	75-125	04/19/2004	2032
							1.4	R	20		
CCV		M0388	1.00718255		1.00		100.7	%	90-110	04/19/2004	2054
CCB			-0.0017148							04/19/2004	2100
MB		3050	-0.0017998							04/19/2004	2119
LCS		M351	0.50701646		0.500		101.4	%	90-112	04/19/2004	2126
SB		M383D	1.79216594		1.89		94.8	%	80-120	04/19/2004	2131
CCV		M0388	1.00775828		1.00		100.8	%	90-110	04/19/2004	2201

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0017367							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98293398		2.00		99.1	%	90-110	04/19/2004	1041
ICV		M0368	1.00811071		1.00		100.8	%	90-110	04/19/2004	1055
ICV		M0380	1.04371922		1.00		104.4	%	90-110	04/19/2004	1110
ICB			0.00515300							04/19/2004	1145
ICV		M368B	0.53517948		0.500		107.0	%	90-110	04/19/2004	1149
CCV		M0379	0.99824767		1.00		99.8	%	90-110	04/19/2004	1154
CCB			0.00744457							04/19/2004	1206
MB		3051	0.00047284							04/19/2004	1209
LCS		M351	0.49463126		0.500		98.9	%	82-111	04/19/2004	1213
MS	224244-1	M351	0.41401453		0.500	0.02618422	77.6	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.47350990	0.41401453	0.500	0.02618422	89.5	%	75-125	04/19/2004	1229
							13.4	R	20		
CCV		M0388	1.00864613		1.00		100.9	%	90-110	04/19/2004	1314
CCB			0.00217504							04/19/2004	1326
MB		3050	0.00468866							04/19/2004	1351
LCS		M351	0.49976816		0.500		100.0	%	82-111	04/19/2004	1357
SB		M383D	0.91953145		0.996		92.3	%	80-120	04/19/2004	1403
CCV		M0379	1.01461669		1.00		101.5	%	90-110	04/19/2004	1424
CCB			0.00204078							04/19/2004	1432
CCV		M0388	1.00316018		1.00		100.3	%	90-110	04/19/2004	1510
CCB			0.00950283							04/19/2004	1522
CCV		M0388	0.97749281		1.00		97.7	%	90-110	04/19/2004	1606
CCB			0.00704582							04/19/2004	1617
MS	224341-1	M351	0.44451339		0.500	-0.0194634	92.8	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.41578319	0.44451339	0.500	-0.0194634	87.0	%	75-125	04/19/2004	1626
							6.7	R	20		
MB		3010	0.00127224							04/19/2004	1635
LCS		M351	0.50338014		0.500		100.7	%	82-111	04/19/2004	1642
CCV		M0388	0.98739104		1.00		98.7	%	90-110	04/19/2004	1709
CCB			0.00474939							04/19/2004	1718
MS	224302-1	M351	0.51777545		0.500	0.00849088	101.9	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.52380359	0.51777545	0.500	0.00849088	103.1	%	75-125	04/19/2004	1736
							1.2	R	20		
CCV		M0388	0.98685399		1.00		98.7	%	90-110	04/19/2004	1806
CCB			0.00453313							04/19/2004	1818
MB		3010	-0.0007447							04/19/2004	1852
CCV		M0388	0.98968476		1.00		99.0	%	90-110	04/19/2004	1859
CCB			0.00023114							04/19/2004	1910
MB		3010.	0.00708800							04/19/2004	1914
LCS		M351	0.50634822		0.500		101.3	%	82-111	04/19/2004	1917
MS	224309-7	M348	0.52678980		0.500	0.01795909	101.8	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.53628749	0.52678980	0.500	0.01795909	103.7	%	75-125	04/19/2004	1944
							1.8	R	20		
CCV		M0388	0.98619348		1.00		98.6	%	90-110	04/19/2004	2000

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			0.00733192							04/19/2004	2012
MB		3051	0.00370258							04/19/2004	2016
LCS		M351	0.43585504		0.500		87.2	%	82-111	04/19/2004	2019
MS	224133-1	M351	0.55550076		0.500	0.03235288	104.6	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.55268391	0.55550076	0.500	0.03235288	104.1	%	75-125	04/19/2004	2032
							0.5	R	20		
CCV		M0388	0.97701685		1.00		97.7	%	90-110	04/19/2004	2054
CCB			0.00325696							04/19/2004	2100
MB		3050	0.00601201							04/19/2004	2119
LCS		M351	0.48941031		0.500		97.9	%	82-111	04/19/2004	2126
SB		M383D	0.95168416		0.996		95.6	%	80-120	04/19/2004	2131
CCV		M0388	0.98922874		1.00		98.9	%	90-110	04/19/2004	2201
CCB			0.00550824							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.01589511		1.0		101.6	%	90-110	04/19/2004	1041
ICV		M0369	0.99982056		1.00		100.0	%	90-110	04/19/2004	1101
ICB			-0.0010159							04/19/2004	1145
CCV		M0379	0.50616656		0.50		101.2	%	90-110	04/19/2004	1154
CCB			-0.0011053							04/19/2004	1206
MB		3051	-0.0013726							04/19/2004	1209
LCS		M351	0.24540302		0.25		98.2	%	87-110	04/19/2004	1213
MS	224244-1	M351	0.21213881		0.25	0.00166175	84.2	%	75-125	04/19/2004	1224
MSD	224244-1	M351	0.24739462	0.21213881	0.25	0.00166175	98.3	%	75-125	04/19/2004	1229
							15.3	R	20		
CCV		M0388	0.50790470		0.50		101.6	%	90-110	04/19/2004	1314
CCB			-0.0019977							04/19/2004	1326
MB		3050	-0.0001408							04/19/2004	1351
LCS		M351	0.25242825		0.25		101.0	%	87-110	04/19/2004	1357
SB		M383D	1.00933816		0.953		105.9	%	80-120	04/19/2004	1403
CCV		M0379	0.50679259		0.50		101.4	%	90-110	04/19/2004	1424
CCB			-0.0009103							04/19/2004	1432
CCV		M0388	0.50226131		0.50		100.5	%	90-110	04/19/2004	1510
CCB			-0.0010382							04/19/2004	1522
CCV		M0388	0.48382961		0.50		96.8	%	90-110	04/19/2004	1606
CCB			-0.0010024							04/19/2004	1617
MS	224341-1	M351	0.24243999		0.25	-0.0019374	97.8	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.23234524	0.24243999	0.25	-0.0019374	93.7	%	75-125	04/19/2004	1626
							4.3	R	20		
MB		3010	-0.0005786							04/19/2004	1635
LCS		M351	0.25380821		0.25		101.5	%	87-110	04/19/2004	1642
CCV		M0388	0.50131024		0.50		100.3	%	90-110	04/19/2004	1709
CCB			-0.0011064							04/19/2004	1718
CCV		M0388	0.50167180		0.50		100.3	%	90-110	04/19/2004	1806
CCB			-0.0006552							04/19/2004	1818
MB		3010	-0.0014798							04/19/2004	1852
CCV		M0388	0.50170688		0.50		100.3	%	90-110	04/19/2004	1859

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0018849							04/19/2004	1910
MB		3010.	-0.0019437							04/19/2004	1914
LCS		M351	0.27094707		0.25		108.4	%	87-110	04/19/2004	1917
MS	224309-7	M348	0.17444333		0.25	-0.0017007	70.5	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.16449411	0.17444333	0.25	-0.0017007	66.5	%	75-125	04/19/2004	1944
							5.9	R	20		
CCV		M0388	0.50699304		0.50		101.4	%	90-110	04/19/2004	2000
CCB			-0.0011241							04/19/2004	2012
MB		3051	-0.0009267							04/19/2004	2016
LCS		M351	0.22093948		0.25		88.4	%	87-110	04/19/2004	2019
MS	224133-1	M351	0.20927014		0.25	-0.0017613	84.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.20593887	0.20927014	0.25	-0.0017613	83.1	%	75-125	04/19/2004	2032
							1.6	R	20		
CCV		M0388	0.51165728		0.50		102.3	%	90-110	04/19/2004	2054
CCB			-0.0006534							04/19/2004	2100
MB		3050	-0.0008936							04/19/2004	2119
LCS		M351	0.25093280		0.25		100.4	%	87-110	04/19/2004	2126
SB		M383D	1.05868044		0.953		111.1	%	80-120	04/19/2004	2131
CCV		M0388	0.50270738		0.50		100.5	%	90-110	04/19/2004	2201
CCB			-0.0006959							04/19/2004	2212

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.10496335		2.00		105.2	%	90-110	04/23/2004	1349
RS		M0371	2.05803025		2.00		102.9	%	90-110	04/23/2004	1359
ICV		M0374	1.00534008		1.00		100.5	%	90-110	04/23/2004	1422
CCV		M0388	2.07370401		2.00		103.7	%	90-110	04/23/2004	1448
CCB			-0.0047198							04/23/2004	1501
CCV		M0388	2.05825955		2.00		102.9	%	90-110	04/23/2004	1607
CCB			0.01743591							04/23/2004	1612
MB		3010	-0.0124011							04/23/2004	1623
LCS		M351	1.03351289		1.00		103.4	%	83-118	04/23/2004	1627
CCB			-0.0185738							04/23/2004	1632
MB		3010	-0.0153073							04/23/2004	1648
MB		3010.	-0.0151764							04/23/2004	1651
LCS		M351	1.03906767		1.00		103.9	%	83-118	04/23/2004	1655
CCV		M0388	2.01508569		2.00		100.8	%	90-110	04/23/2004	1712
CCB			-0.0116118							04/23/2004	1726
MS	224389-3	M351	0.99590767		1.00	-0.0369076	103.3	%	75-125	04/23/2004	1740
MSD	224389-3	M351	1.01395660	0.99590767	1.00	-0.0369076	105.1	%	75-125	04/23/2004	1745
							1.8	R	20		
CCV		M0388	2.03318442		2.00		101.7	%	90-110	04/23/2004	1813
CCB			-0.0110304							04/23/2004	1826
CCV		M0388	2.00539274		2.00		100.3	%	90-110	04/23/2004	1909
CCB			-0.0120060							04/23/2004	1923
MB		3010.	-0.0161856							04/23/2004	1936
LCS		M351	1.02953109		1.00		103.0	%	83-118	04/23/2004	1940
MS	224400-2	M351	1.05128135		1.00	-0.0184096	107.0	%	75-125	04/23/2004	1953

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92903 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	224400-2	M351	1.04633632	1.05128135	1.00	-0.0184096	106.5	%	75-125	04/23/2004	1959
							0.5	R	20		
CCV		M0388	2.05328924		2.00		102.7	%	90-110	04/23/2004	2013
CCB			-0.0094764							04/23/2004	2026
MB		3010	-0.0118164							04/23/2004	2029
LCS		M351	1.04182693		1.00		104.2	%	83-118	04/23/2004	2033
MB		3010	-0.0153187							04/23/2004	2053
LCS		M351	0.96516855		1.00		96.5	%	83-118	04/23/2004	2059
B			-0.0199158							04/23/2004	2104
CCV		M0388	2.02877114		2.00		101.4	%	90-110	04/23/2004	2122
CCB			-0.0105243							04/23/2004	2136
MD	224404-6		-0.0128982			-0.0151623	0.0022641	A	0.0200000	04/23/2004	2142
MS	224404-6	M351	1.02677486		1.00	-0.0151623	104.2	%	75-125	04/23/2004	2149
MSD	224404-6	M351	1.00908365	1.02677486	1.00	-0.0151623	102.4	%	75-125	04/23/2004	2154
							1.7	R	20		
MB		3010	-0.0067999							04/23/2004	2204
LCS		M351	1.02010687		1.00		102.0	%	83-118	04/23/2004	2211
CCV		M0388	2.07336790		2.00		103.7	%	90-110	04/23/2004	2228
CCB			-0.0073217							04/23/2004	2241
MS	224401-1	M351	1.01030912		1.00	-0.0348454	104.5	%	75-125	04/23/2004	2248
MSD	224401-1	M351	1.01227105	1.01030912	1.00	-0.0348454	104.7	%	75-125	04/23/2004	2253
							0.2	R	20		
CCV		M0388	2.00528245		2.00		100.3	%	90-110	04/23/2004	2322
CCB			-0.0020157							04/23/2004	2333
CCV		M0388	1.96534010		2.00		98.3	%	90-110	04/24/2004	0014
CCB			-0.0107983							04/24/2004	0028

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01127838		2.00		100.6	%	90-110	04/19/2004	1041
ICV		M0368	0.99525679		1.00		99.5	%	90-110	04/19/2004	1055
ICV		M0380	1.01151796		1.00		101.2	%	90-110	04/19/2004	1110
ICB			-0.0032841							04/19/2004	1145
ICV		M368B	0.51878350		0.500		103.8	%	90-110	04/19/2004	1149
CCV		M0379	0.98807174		1.00		98.8	%	90-110	04/19/2004	1154
CCB			-0.0032753							04/19/2004	1206
MB		3051	-0.0029521							04/19/2004	1209
LCS		M351	0.49701761		0.500		99.4	%	89-110	04/19/2004	1213
CCV		M0388	0.99255304		1.00		99.3	%	90-110	04/19/2004	1314
CCB			-0.0029466							04/19/2004	1326
MB		3050	-0.0033800							04/19/2004	1351
LCS		M351	0.49429410		0.500		98.9	%	89-110	04/19/2004	1357
SB		M383D	1.97069067		2.04		96.6	%	80-120	04/19/2004	1403
CCV		M0379	0.99040480		1.00		99.0	%	90-110	04/19/2004	1424
CCB			-0.0032191							04/19/2004	1432
CCV		M0388	0.98341376		1.00		98.3	%	90-110	04/19/2004	1510
CCB			-0.0037112							04/19/2004	1522
CCV		M0388	0.94570948		1.00		94.6	%	90-110	04/19/2004	1606

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 224295 Report Date.: 05/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92665 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0032967							04/19/2004	1617
MS	224341-1	M351	0.66615983		0.500	0.17139586	99.0	%	75-125	04/19/2004	1621
MSD	224341-1	M351	0.68472840	0.66615983	0.500	0.17139586	102.7	%	75-125	04/19/2004	1626
							2.7	R	20		
MB		3010	-0.0027328							04/19/2004	1635
LCS		M351	0.49350714		0.500		98.7	%	89-110	04/19/2004	1642
CCV		M0388	0.97159437		1.00		97.2	%	90-110	04/19/2004	1709
CCB			-0.0026711							04/19/2004	1718
MS	224302-1	M351	0.51591899		0.500	0.00427049	102.3	%	75-125	04/19/2004	1731
MSD	224302-1	M351	0.51493256	0.51591899	0.500	0.00427049	102.1	%	75-125	04/19/2004	1736
							0.2	R	20		
CCV		M0388	0.97260982		1.00		97.3	%	90-110	04/19/2004	1806
CCB			-0.0021359							04/19/2004	1818
MB		3010	-0.0028471							04/19/2004	1852
CCV		M0388	0.96831243		1.00		96.8	%	90-110	04/19/2004	1859
CCB			-0.0037222							04/19/2004	1910
MB		3010.	-0.0030583							04/19/2004	1914
LCS		M351	0.52902791		0.500		105.8	%	89-110	04/19/2004	1917
MS	224309-7	M348	0.51229005		0.500	-0.0016683	102.8	%	75-125	04/19/2004	1939
MSD	224309-7	M348	0.49005925	0.51229005	0.500	-0.0016683	98.3	%	75-125	04/19/2004	1944
							4.4	R	20		
CCV		M0388	0.97365353		1.00		97.4	%	90-110	04/19/2004	2000
CCB			-0.0026303							04/19/2004	2012
MB		3051	-0.0030035							04/19/2004	2016
LCS		M351	0.44028079		0.500		88.1	%	89-110	04/19/2004	2019
MS	224133-1	M351	0.43383644		0.500	-0.0031200	87.4	%	75-125	04/19/2004	2027
MSD	224133-1	M351	0.42541378	0.43383644	0.500	-0.0031200	85.7	%	75-125	04/19/2004	2032
							2.0	R	20		
CCV		M0388	0.97538642		1.00		97.5	%	90-110	04/19/2004	2054
CCB			-0.0022371							04/19/2004	2100
MB		3050	-0.0028553							04/19/2004	2119
LCS		M351	0.48200410		0.500		96.4	%	89-110	04/19/2004	2126
SB		M383D	1.79870302		2.04		88.2	%	80-120	04/19/2004	2131
CCV		M0388	0.97044552		1.00		97.0	%	90-110	04/19/2004	2201
CCB			-0.0033225							04/19/2004	2212

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D200143

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

April 30, 2004

STL LOT NUMBER: **I4D200143**
PO/CONTRACT: 224295,224349,224322

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the five samples received under chain of custody by Severn Trent Laboratories (STL) on April 17, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D200143

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224295-1 04/14/04 16:10 001				
Cadmium	50.3	1.0	ug/L	SW846 6020
Antimony	2.9	1.0	ug/L	SW846 6020
Thallium	1.3	1.0	ug/L	SW846 6020
224295-2 04/14/04 16:30 002				
Cadmium	67.3	1.0	ug/L	SW846 6020
Antimony	16.0	1.0	ug/L	SW846 6020
224295-3 04/14/04 16:30 003				
Cadmium	102	1.0	ug/L	SW846 6020
Antimony	24.1	1.0	ug/L	SW846 6020
224349-1 04/16/04 15:45 004				
Cadmium	55.1	1.0	ug/L	SW846 6020
Antimony	1.4	1.0	ug/L	SW846 6020
Thallium	1.0	1.0	ug/L	SW846 6020
224322-1 04/15/04 15:45 005				
Cadmium	104	1.0	ug/L	SW846 6020
Antimony	7.1	1.0	ug/L	SW846 6020
Thallium	3.6	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D200143

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D200143

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GEG11	001	224295-1	04/14/04	16:10
GEG18	002	224295-2	04/14/04	16:30
GEG2A	003	224295-3	04/14/04	16:30
GEG2D	004	224349-1	04/16/04	15:45
GEG2G	005	224322-1	04/15/04	15:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D200143

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
002	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
003	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
004	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049
005	WATER	SW846 6020		4113247	4113103
	WATER	SW846 6010B		4118144	4118049

STL CORPUS CHRISTI

Client Sample ID: 224295-1

TOTAL Metals

Lot-Sample #...: I4D200143-001 Matrix.....: WATER
Date Sampled...: 04/14/04 16:10 Date Received..: 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	50.3	1.0	ug/L	SW846 6020	04/22/04	GEG111AA
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Antimony	2.9	1.0	ug/L	SW846 6020	04/22/04	GEG111AC
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Thallium	1.3	1.0	ug/L	SW846 6020	04/22/04	GEG111AD
		Dilution Factor: 1		Analysis Time..: 18:00	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG111AE
		Dilution Factor: 1		Analysis Time..: 11:51	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224295-2

TOTAL Metals

Lot-Sample #...: I4D200143-002 **Matrix.....:** WATER
Date Sampled...: 04/14/04 16:30 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**67.3**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG181AA**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Antimony	**16.0**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG181AC**
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEG181AD
		Dilution Factor: 1		Analysis Time..: 18:06	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG181AE
		Dilution Factor: 1		Analysis Time..: 11:56	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224295-3

TOTAL Metals

Lot-Sample #...: I4D200143-003 **Matrix.....:** WATER
Date Sampled...: 04/14/04 16:30 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**102**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2A1AA**
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Antimony	**24.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2A1AC**
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEG2A1AD
		Dilution Factor: 1		Analysis Time..: 18:12	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2A1AE
		Dilution Factor: 1		Analysis Time..: 12:02	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224349-1

TOTAL Metals

Lot-Sample #...: I4D200143-004 **Matrix.....:** WATER
Date Sampled...: 04/16/04 15:45 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**55.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2D1AA**
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Antimony	**1.4**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2D1AC**
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Thallium	**1.0**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2D1AD**
		Dilution Factor: 1		Analysis Time..: 18:18	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2D1AE
		Dilution Factor: 1		Analysis Time..: 12:07	MS Run #.....: 4118049	

STL CORPUS CHRISTI

Client Sample ID: 224322-1

TOTAL Metals

Lot-Sample #...: I4D200143-005 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4113247						
Cadmium	**104**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AA**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Antimony	**7.1**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AC**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Thallium	**3.6**	**1.0**	**ug/L**	**SW846 6020**	**04/22/04**	**GEG2G1AD**
		Dilution Factor: 1		Analysis Time..: 18:24	MS Run #.....: 4113103	
Prep Batch #...: 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GEG2G1AE
		Dilution Factor: 1		Analysis Time..: 12:12	MS Run #.....: 4118049	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D220000-247 **Prep Batch #...:** 4113247						
Antimony	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AC
		Dilution Factor: 1				
		Analysis Time..: 17:49				
Cadmium	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AA
		Dilution Factor: 1				
		Analysis Time..: 17:49				
Thallium	ND	1.0	ug/L	SW846 6020	04/22/04	GEML71AD
		Dilution Factor: 1				
		Analysis Time..: 17:49				
MB Lot-Sample #: I4D270000-144 **Prep Batch #...:** 4118144						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/26-04/28/04	GE0RW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:41				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D220000-247 **Prep Batch #...:** 4113247					
Cadmium	94	(80 - 120)	SW846 6020	04/22/04	GEML71AE
		Dilution Factor: 1		Analysis Time..: 17:55	
Antimony	93	(80 - 120)	SW846 6020	04/22/04	GEML71AF
		Dilution Factor: 1		Analysis Time..: 17:55	
Thallium	97	(80 - 120)	SW846 6020	04/22/04	GEML71AG
		Dilution Factor: 1		Analysis Time..: 17:55	
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144					
Bismuth	102	(80 - 120)	SW846 6010B	04/26-04/28/04	GE0RW1AC
		Dilution Factor: 1		Analysis Time..: 11:46	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D220000-247 **Prep Batch #...:** 4113247							
Cadmium	50.0	46.9	ug/L	94	SW846 6020	04/22/04	GEML71AE
			Dilution Factor: 1		Analysis Time..: 17:55		
Antimony	50.0	46.3	ug/L	93	SW846 6020	04/22/04	GEML71AF
			Dilution Factor: 1		Analysis Time..: 17:55		
Thallium	50.0	48.6	ug/L	97	SW846 6020	04/22/04	GEML71AG
			Dilution Factor: 1		Analysis Time..: 17:55		
LCS Lot-Sample#: I4D270000-144 **Prep Batch #...:** 4118144							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	04/26-04/28/04	GE0RW1AC
			Dilution Factor: 1		Analysis Time..: 11:46		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4113247							
Antimony	91	(80 - 120)			SW846 6020	04/22/04	GEG2G1AH
	93	(80 - 120)	2.1	(0-20)	SW846 6020	04/22/04	GEG2G1AJ
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
Cadmium	87	(80 - 120)			SW846 6020	04/22/04	GEG2G1AF
	83	(80 - 120)	1.3	(0-20)	SW846 6020	04/22/04	GEG2G1AG
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
Thallium	93	(80 - 120)			SW846 6020	04/22/04	GEG2G1AK
	97	(80 - 120)	3.5	(0-20)	SW846 6020	04/22/04	GEG2G1AL
		Dilution Factor: 1					
		Analysis Time..: 18:43					
		MS Run #.....: 4113103					
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144							
Bismuth	100	(75 - 125)			SW846 6010B	04/26-04/28/04	GEG2G1AM
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/26-04/28/04	GEG2G1AN
		Dilution Factor: 1					
		Analysis Time..: 12:27					
		MS Run #.....: 4118049					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D200143 **Matrix.....:** WATER
Date Sampled...: 04/15/04 15:45 **Date Received..:** 04/17/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4113247									
Antimony									
	7.1	50.0	52.4	ug/L	91		SW846 6020	04/22/04	GEG2G1AH
	7.1	50.0	53.5	ug/L	93	2.1	SW846 6020	04/22/04	GEG2G1AJ
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
Cadmium									
	104	50.0	148	ug/L	87		SW846 6020	04/22/04	GEG2G1AF
	104	50.0	146	ug/L	83	1.3	SW846 6020	04/22/04	GEG2G1AG
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
Thallium									
	3.6	50.0	50.1	ug/L	93		SW846 6020	04/22/04	GEG2G1AK
	3.6	50.0	51.8	ug/L	97	3.5	SW846 6020	04/22/04	GEG2G1AL
			Dilution Factor: 1						
			Analysis Time..: 18:43						
			MS Run #.....: 4113103						
MS Lot-Sample #: I4D200143-005 **Prep Batch #...:** 4118144									
Bismuth									
	ND	0.500	0.502	mg/L	100		SW846 6010B	04/26-04/28/04	GEG2G1AM
	ND	0.500	0.494	mg/L	99	1.6	SW846 6010B	04/26-04/28/04	GEG2G1AN
			Dilution Factor: 1						
			Analysis Time..: 12:27						
			MS Run #.....: 4118049						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT **STL**

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4D200143

RECEIVED BY: [signature]

COC NUMBER: _____

DATE/TIME RECEIVED: 4-17-01 0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4-17-01 0850

All In 1 Lot

CLIENT/PROJECT: STL Corpus

SAMPLES LOGGED IN: XT

LOG-IN REVIEWED: CC

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☒ YES ☐ NO — Custody Seal Signed/Dated: ☐ YES ☐ NO

Custody Seal Present: ☒ YES ☐ NO — Containers checked for radioactivity: ☐ YES ☐ NO ☐ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO — Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO — See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) — Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap — Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **IR THERMOMETER #:** 95

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ — OK to analyze samples: ☒ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☒ YES **VERIFIED BY:** CC

Base samples are>pH 12: ☐ YES ☐ NO — Acid preserved are<pH 2: ☒ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES — Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES — Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: _____

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☐ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 3/30/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

No. 22474

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.: I4D 200143

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6020 (Sb, Cd, Tl)	6010 (Ba)	REMARKS/PRECAUTIONS
	224295-1	4/14/04	16:10	Water	P500	HNO_3		X	X	Attn: Neal Salcher
	224295-2	↓	16:30	↓	↓	↓		X	X	
	224295-3	↓	16:30	↓	↓	↓		X	X	
										ASARCO Pricing
										2E 4-17-04cc

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Monica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/17/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

SEVERN TRENT **STL**

STL Austin

No. 22476

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

NUMBER OF CONTAINERS | ANALYSIS/METHOD REQUEST: 6020 (Sb, Cd, Tl); 6010 (Si) | LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS/PRECAUTIONS
	224349-1	4/16/04	15:45	Water	P500	HNO3	Attn: Neal Salcher ASARCO Pricing 2° 4-17-04 cc

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 16:14	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4-17-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

STL Austin

No. 22475

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: Same
PHONE: 361 / 289-2673	PHONE:
FAX: 361 / 289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: ICPMS 6020 (56, Cd, Tl); 6010 (Ti)	LAB JOB NO.	REMARKS/PRECAUTIONS
	224322-1	4/15/04	15:45	Water	PSTU	1 HNO3	1	X X		Attn: Neal Salcher ASARCO Pricing
										2nd 4-17-04 cc

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7 days

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/16/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME: 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4-17-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/06/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/06/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 23454

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENCYCLE RCRA Closure	PROJECT NAME/NUMBER: Encycle RCRA Closure
SEND REPORT TO: Ken Brandon/ARCADIS	**BILLING INFORMATION**
ADDRESS: 711 N. Carancahua, Corpus Christi, TX 78475	BILL TO: Rich Marcus, Encycle
	ADDRESS:
PHONE: 361-883-1358	PHONE:
FAX: 361-883-7565	FAX: PO NO:

8.1°C
Just sampled

LAB JOB NO.
224295

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Cyanide (1qt poly w/NaOH); Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn, Ca (1pt poly w/HNO3)	REMARKS/PRECAUTIONS
Bin R	Bin R	4/14/04	4:10	L	1qt poly 2 1pt poly	NaOH HNO3	3	X X	Need low detection limits
Bin P	Bin P	↓	4:30	L	1qt poly 2 1pt poly	NaOH HNO3	3	X X	
Bin P dup.	Bin P duplicate	↓	4:30	L	1qt poly 2 1pt poly	NaOH HNO3	3	X X	

SAMPLER: Ken Brandon

SHIPMENT METHOD: In Person

AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☑ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Ken Brandon	4/14/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Ken Brandon/ARCADIS	TIME 1657	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/14/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1657	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274670c **Report Date:** 06/01/04
Project ID: Encycle RCRA Closure
Sample Name: Bin P
Sample Matrix: water
Date Received: 05/24/2004 **Time:** 16:42
Date Sampled: 05/24/2004 **Time:** 16:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	05/25/04	3015	---	---	---	---	---
Antimony/ICP	<0.005	mg/L	0.005	<0.005	05/26/04	6010 & 200.7	---	2.7	104.51	95.32	94.06
Arsenic/ICP	**0.0242**	mg/L	0.01	<0.01	05/26/04	6010 & 200.7	---	3.52	101.84	101.72	90.59
Cadmium/ICP	**0.0807**	mg/L	0.002	<0.002	05/26/04	6010 & 200.7	---	2.07	102.78	98.8	92.4
Lead/ICP	**0.286**	mg/L	0.01	<0.01	05/26/04	6010 & 200.7	---	3.31	94.61	100.56	87.79

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Respectfully Submitted,

Richard Elton

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ANALYSYS INC.

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Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274671c **Report Date:** 06/04/04
Project ID: Encycle RCRA Closure
Sample Name: Bin R
Sample Matrix: water
Date Received: 05/24/2004 **Time:** 16:42
Date Sampled: 05/24/2004 **Time:** 16:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	06/02/04	3015	---	---	---	---	---
Cadmium/ICP	0.0182	mg/L	0.002	<0.002	06/03/04	6010 & 200.7	---	0.49	109.98	100.9	97.92
Lead/ICP	0.161	mg/L	0.01	<0.01	06/03/04	6010 & 200.7	---	2.17	102.01	98.42	91.78

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner/ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Antimony, Arsenic, cadmium, lead (1pt. poly w/ HNO_3) Cd, Pb						Remarks	Total
Bin P 274670C	L	5/24/04 4:15		1						Need low detection limits.	1
Bin R 274671C	L	5/24/04 4:30		~~[HOLD]~~	Analyze per K. Marcus					Hold Bin R sample	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 5/24/04	Time 4:42	Seal Intact? Yes No N/A
Received by: L Flowman	Organization: ASI	Date 5/24/04	Time 1642	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by: [signature]	Organization: ASI	Date 5/25/04	Time 0840	

Special Instructions/Remarks: Need 5-day turnaround on Bin P sample.
Results to Ken Brandner and Rich Marcus. T 2.0°C
Invoice to Rich Marcus for RCRA Closure

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274698 **Report Date:** 06/15/04
Project ID: Encycle RCRA Closure
Sample Name: Bin P
Sample Matrix: water
Date Received: 05/25/2004 **Time:** 16:40
Date Sampled: 05/25/2004 **Time:** 16:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/09/04	3015	---	---	---	---	---
Arsenic/ICP	0.0278	mg/L	0.01	<0.01	06/12/04	6010 & 200.7	---	0.71	99.67	98.92	81.78
Cadmium/GFAA	0.008	mg/L	0.001	<0.001	06/11/04	7131 & 213.2	---	3.79	90.72	101	98.2
Lead/ICP	<0.01	mg/L	0.01	<0.01	06/12/04	6010 & 200.7	---	0.59	94.99	99.3	78.08

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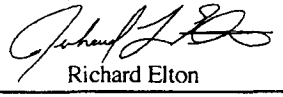
Respectfully Submitted,



Richard Elton

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Ensyde RCRA Closure

Project Location Corpus Christi TX

Laboratory Analysis

Project Manager Ken Brandner

Sampler(s)/Affiliation Adrian Garcia/ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Antimony, cadmium, lead, thallium (1 pt poly) (HNO3)	Remarks	Total
B.N N 274697	L	5/25/04 1600	1		Need lowest detection limits	1
B.N T 274698	L	5/25/04 1615	[illegible]	analyze for As, Cd, Pb per FAX 6/9/04	Hold B.N T sample	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 2

					Seal Intact?
Relinquished by: Adrian E. Garcia	Organization: ARCADIS	Date 05/25/2004	Time 16:40		
Received by: [illegible]	Organization: CCSI	Date 5/25/04	Time 1640		Yes No (N/A)
Relinquished by:	Organization:	Date / /	Time		Seal Intact?
Received by: D. Klumpp	Organization: ASI	Date 5/26/04	Time 0830		Yes No N/A

Special Instructions/Remarks: Need 5 day turnaround on B.N N sample

T:2 C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 275907 **Report Date:** 07/14/04
Project ID: Encycle RCRA Closure
Sample Name: Bin P
Sample Matrix: water
Date Received: 07/08/2004 **Time:** 16:00
Date Sampled: 07/08/2004 **Time:** 15:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	07/09/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0021**	mg/L	0.002	<0.002	07/13/04	6010 & 200.7	---	2.67	101.74	102.3	101.8

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Richard Elton

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ARCADIS

Laboratory Task Order No./P.O. No. 1

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Encycle RCRA Closure

Project Location Corpus Christi, TX

Laboratory Analysys, Inc.

Project Manager K. Brandner

Sampler(s)/Affiliation A. Garcia /ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Cadmium 1 pt. poly w/ HNO_3						Remarks	Total
Bin P275907	L	07-09-2004 15:45		1						Require Low Detection Limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 1

Relinquished by: [signature]	Organization: ARCADIS	Date 07/08/2004	Time 16:00	Seal Intact?	
Received by: L Plowman	Organization: ASI	Date 7/8/04	Time	Yes No N/A	
Relinquished by:	Organization:	Date / /	Time 1600	Seal Intact?	
Received by: [signature]	Organization: ASI	Date 7/9/04	Time 0840	Yes No N/A	

Special Instructions/Remarks:

Direct Bill R. Marcus (Encycle). Results to K. Brandner (ARCADIS) and R. Marcus (Encycle) for RCRA Closure Require 5-Day Turnaround. T:2.0C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274497 **Report Date:** 05/24/04
Project ID: Encycle RCRA Closure
Sample Name: Bin R
Sample Matrix: water
Date Received: 05/19/2004 **Time:** 16:20
Date Sampled: 05/19/2004 **Time:** 16:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	05/20/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0211**	mg/L	0.002	<0.002	05/21/04	6010 & 200.7	---	1.51	92.53	95.8	87.53
Lead/ICP	**0.176**	mg/L	0.01	<0.01	05/21/04	6010 & 200.7	---	1.18	89.14	97.68	91.22

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page - of 1

Project Number/Name: Encycle RCRA Closure
Project Location: Corpus Christi
Laboratory: Analysys, Inc.
Project Manager: K. Brandner
Sampler(s)/Affiliation: A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cadmium, Lead Plastic w/ HNO_3						Remarks	Total
Bin S 274496	L	05-19-2004 / 1630		1	—	HOLD	—			Hold Bin S.	1
Bin R 274497	L	1615		1						Requires Low Detection Limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 2

Relinquished by: Adrian E. Garcia	Organization: ARCADIS	Date 05/19/2004	Time 16:20	Seal Intact?		
Received by: M. Wilk	Organization: ASI	Date 5/19/04	Time 1620	Yes	No	N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?		
Received by: L. Flynn	Organization: ASI	Date 5/20/04	Time 0830	Yes	No	N/A

Special Instructions/Remarks: Hold Bin S, Pending Results of Bin S 05-18-2004.
Note: Five (5) Day Turnaround. Direct Bill R. Marcus (Encycle). Results to K. Brandner (ARCADIS) and R. Marcus (Encycle) T:2.2 c

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

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Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274553 **Report Date:** 05/27/04
Project ID: Encycle RCRA Closure
Sample Name: Bin R
Sample Matrix: water
Date Received: 05/20/2004 **Time:** 16:25
Date Sampled: 05/20/2004 **Time:** 16:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	05/25/04	3015	---	---	---	---	---
Cadmium/ICP	0.0133	mg/L	0.002	<0.002	05/26/04	6010 & 200.7	---	2.07	102.78	98.8	92.4
Lead/ICP	0.0984	mg/L	0.01	<0.01	05/26/04	6010 & 200.7	---	3.31	94.61	100.56	87.79

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ARCADIS

Laboratory Task Order No./P.O. No.. _____

CHAIN-OF-CUSTODY RECORD

Page - - of 1

Project Number/Name Encycle RCRA Closure

Project Location Corpus Christi

Laboratory Analysys, Inc.

Project Manager K. Beardnee

Sampler(s)/Affiliation A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cadmium, Lead Plastic w/ HNO_3	Analyte per R. Marcus 5/24	Remarks	Total
Bin S 274552	L	05-20-2004 16:00		1	~~HOLD~~	Hold pending Prior Result analyses.	1
Bin R 274553	L	16:15		1	~~HOLD~~ Analyte per R. Marcus 5/25	Require Low Detection Limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 2

					Seal Intact?
Relinquished by:		Organization: ARCADIS	Date 05/20/2004	Time 16:25	
Received by:		Organization: ASI	Date 5/20/04	Time 16:25	Yes No N/A
Relinquished by:		Organization:	Date 5/21/04	Time	Seal Intact?
Received by:		Organization: ASI	Date 5/24/04	Time 0840	Yes No N/A

Special Instructions/Remarks: Hold Bin S and R, Pending Bin S & Bin R prior sample analyses.

Note: Five(5) Day Turnaround. Direct Bill R. Marcus (Encycle). Results to K. Beardnee (ARCADIS) and R. Marcus (Encycle).

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 275835 **Report Date:** 07/16/04
Project ID: Encycle RCRA Closure
Sample Name: Bin R
Sample Matrix: water
Date Received: 07/06/2004 **Time:** 15:45
Date Sampled: 07/06/2004 **Time:** 00:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	07/07/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0069**	mg/L	0.002	<0.002	07/16/04	6010 & 200.7	---	1.08	94.51	99.4	95.13
Lead/ICP	**0.0839**	mg/L	0.01	<0.01	07/16/04	6010 & 200.7	---	0.81	93.97	99.24	97.12

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name: Encycle RCRA Closure
Project Location: Corpus Christi, TX
Laboratory: Analysys
Project Manager: Ken Brandner
Sampler(s)/Affiliation: Jacob Clonts / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Total Cadmium & Total Lead (1 pt. poly w/ HNO3)						Remarks	Total
BiN R	L	7/6/04	275835	1						Need low detection limits.	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

						Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS	Date 7/6/04	Time 15:45			
Received by: L Pruman	Organization: ASI	Date 7/6/04	Time 1545			Yes No (N/A)
Relinquished by:	Organization:	Date / /	Time			Seal Intact?
Received by: D Flynn	Organization: ASI	Date 7/7/04	Time 0840			Yes No N/A

Special Instructions/Remarks: Results to Ken Brandner & Rich Marcus. Invoice to Rich Marcus for RCRA Closure. Need 5 day turnaround. T: 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 275871 **Report Date:** 07/21/04
Project ID: CC000867.0001/Encycle RCRA Closure
Sample Name: Bin R
Sample Matrix: water
Date Received: 07/07/2004 **Time:** 13:40
Date Sampled: 07/07/2004 **Time:** 13:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	07/16/04	3015	---	---	---	---	---
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	07/20/04	6010 & 200.7	J	1.29	98.52	102.6	100.9
Lead/ICP	0.0467	mg/L	0.01	<0.01	07/20/04	6010 & 200.7	---	2.01	95.26	103.12	100.78

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 275871 **Matrix:** water
Client: Arcadis Geraghty & Miller, Inc. **Attn:** Ken Brandner
Project ID: CC000867.0001/Encycle RCRA Closure
Sample Name: Bin R

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Cadmium/ICP	J	See J-flag discussion above.

Notes: _____

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name CC000867.0001/Encycle RCRA Closure
Project Location Corpus Christi, TX
Laboratory Analysis, Inc.
Project Manager K. Brandner
Sampler(s)/Affiliation A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Cadmium & Lead	Lpt. poly w/ HNO3	ANALYSIS / METHOD / SIZE				Remarks	Total
Bin R 275871	L	07-07-04 13:25		1		HOLD analyze per R.M 7/19/04				Hold pending P.M. Authorization. Require Low Detection limits when analyzed.	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

					Seal Intact?
Relinquished by: Helen E. Skeen	Organization: ARCADIS	Date 07/07/2004	Time 13:40		
Received by: L Plowman	Organization: AST	Date 7/7/04	Time 1340		Yes No (N/A)
Relinquished by:	Organization:	Date / /	Time		Seal Intact?
Received by: D Flynn	Organization: AST	Date 7/8/04	Time 0835		Yes No N/A

Special Instructions/Remarks: Direct Bill R. Marcus (Encycle). Results to: K. Brandner (ARCADIS) and R. Marcus (Encycle) for RCRA closure. Need 5-Day TURNAROUND. T: 2.0°c

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278153 **Report Date:** 09/24/04
Project ID: RCRA Closure
Sample Name: Bin R
Sample Matrix: water
Date Received: 09/22/2004 **Time:** 11:50
Date Sampled: 09/22/2004 **Time:** 11:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/23/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/23/04	6010 & 200.7	J	2.6	91.06	104.66	99

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Exceptions Report:

Report #/Lab ID#: 278153 **Matrix:** water
Client: Encycle/Texas, Inc. **Attn:** Richard Marcus
Project ID: RCRA Closure
Sample Name: Bin R

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Lead/ICP	J	See J-flag discussion above.

Notes: _____

CHAIN-OF-CUSTODY

www.analysysinc.com

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385 7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name: Ken Brandner of ARCADIS/Rich Marcus
Address: 711 N. Carancahua
City: Corpus Christi State: TX Zip: 78475
ATTN: Ken Brandner
Phone: 361-883-1353 Fax: 361-883-7565
Project Name/PO#: RCRA Closure Sampler: Ken Brandner

Bill To (if different):
Company Name: Encycle (Attn: Rich Marcus)
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: Total Lead	RUSH TAT (Pre-Scheduled)	Standard TAT
BIN R	9/22/04	11:40	1	X		278153	X	X											X	X	

Special Instructions (such as special QC requirements, lists, methods, etc...)
Analyze for total lead. Need 3 day turnaround. Invoice to Rich Marcus for Encycle RCRA Closure.

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0 C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
Ken Brandner	ARCADIS	9/22/04	11:50	[signature]	ASI	9.22.04	1150	NO	
				[signature]	ASI	9/23/04	0850		

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

SEVERN STL

RECEIVED
APR 27 2004
BY

ANALYTICAL REPORT

JOB NUMBER: 224213

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 04/23/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

4/23/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 37

SEVERN STL

CASE NARRATIVE

Job Number 224213

April 23, 2004

Total Metals Analysis

Sample 224213-1 was analyzed for total metals using EPA Method 6010B. The percent recovery results for silver in the matrix spikes associated with this sample were below the acceptance criteria. The associated LCS was within acceptable limits and it appears the out of control data are due to the sample matrix.

Please contact me at 361-289-2673 or omcdonald@stl-inc.com if you have any questions regarding this report or if we can be of further assistance.

Olga Verónica McDonald

Olga Verónica McDonald
Project Manager

SEVERN STL

SAMPLE INFORMATION
Date: 04/23/2004

Job Number.: 224213
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
224213-1	BIN S	Water	04/08/2004	15:40	04/08/2004	16:13

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

SEVERN STL

LABORATORY TEST RESULTS

Job Number: 224213 Date: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: BIN S
Date Sampled.....: 04/08/2004
Time Sampled.....: 15:40
Sample Matrix.....: Water

Laboratory Sample ID: 224213-1
Date Received.....: 04/08/2004
Time Received.....: 16:13

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	04/20/04	edr
EPA 335.3	Cyanide, Total	<0.02	0.02	mg/L	04/09/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	04/12/04	jem
SW-846 6010B	Barium (Ba), Total	0.08	0.01	mg/L	04/12/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	04/12/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	04/12/04	jem
SW-846 6010B	Copper (Cu), Total	0.26	0.01	mg/L	04/12/04	jem
SW-846 6010B	Lead (Pb), Total	0.56	0.01	mg/L	04/12/04	jem
SW-846 6010B	Manganese (Mn), Total	0.03	0.01	mg/L	04/12/04	jem
SW-846 6010B	Nickel (Ni), Total	0.19	0.01	mg/L	04/12/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	04/12/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	04/12/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	04/12/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	04/12/04	jem
SW-846 6010B	Zinc (Zn), Total	0.78	0.01	mg/L	04/12/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			04/12/04	hmz

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A Batch.....: 92726 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/L Test Code.: HGL
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M042004HG	0.00485		0.00500		97.0	%	90-110	04/20/2004	1533
ICB			-0.000173							04/20/2004	1537
LCS		M042004LG	0.00537		0.0050		107.4	%	85-115	04/20/2004	1540
MB			0.000193							04/20/2004	1544
MS	224198-3	M042004HG	0.00581		0.00500	0.000279	110.6	%	75-125	04/20/2004	1601
MSD	224198-3	M042004HG	0.00570	0.00581	0.00500	0.000279	108.4	%	75-125	04/20/2004	1602
							1.9	R	20		
CCV		M042004HG	0.00505		0.00500		101.0	%	80-120	04/20/2004	1606
CCB			-0.000096							04/20/2004	1609
CCV		M042004HG	0.00485		0.00500		97.0	%	80-120	04/20/2004	1628
CCB			-0.000180							04/20/2004	1630

Test Method.....: EPA 335.3 Batch.....: 92408 Analyst...: dev
Method Description.: Cyanide, Total (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB		040904	-0.0005							04/09/2004	1630
ICV		CN40409E	0.4074		0.4000		101.8	%	90-110	04/09/2004	1632
MB		040904	0.0002							04/09/2004	1634
LCS		CN40409P	0.0465		0.05000		93.0	%	76-117	04/09/2004	1636
LCS		CN40409Q	0.0926		0.1000		92.6	%	76-117	04/09/2004	1639
LCS		CN40409R	0.1766		0.2000		88.3	%	76-117	04/09/2004	1641
MS	224213-1	CN40409S	0.0526		0.05000	0.0043	96.6	%	75-125	04/09/2004	1645
MSD	224213-1	CN40409S	0.0515	0.0526	0.05000	0.0043	94.4	%	75-125	04/09/2004	1647
							2.1	R	20		
CCB		040904	-0.0007							04/09/2004	1658
CCV		CN40409E	0.4030		0.4000		100.8	%	90-110	04/09/2004	1700

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.93971625		2.00		97.0	%	90-110	04/12/2004	1327
ICV		M0368	0.94468548		1.00		94.5	%	90-110	04/12/2004	1342
ICV		M0380	0.93037793		1.00		93.0	%	90-110	04/12/2004	1359
ICB			-0.0104858							04/12/2004	1415
CCV		M0379	0.91541186		1.00		91.5	%	90-110	04/12/2004	1443
CCB			-0.0115442							04/12/2004	1456
MB		3010	-0.0168890							04/12/2004	1500
LCS		M348	0.46025914		0.500		92.1	%	85-110	04/12/2004	1506
MB		3010	-0.0144149							04/12/2004	1524
LCS		M348	0.41466652		0.500		82.9	%	80-120	04/12/2004	1531
CCV		M0379	0.94277796		1.00		94.3	%	90-110	04/12/2004	1549
CCB			-0.0113832							04/12/2004	1603
MS	224191-1	M348	0.48688159		0.500	-0.0075053	98.9	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.48915420	0.48688159	0.500	-0.0075053	99.3	%	75-125	04/12/2004	1622
							0.5	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0379	0.94223081		1.00		94.2	%	90-110	04/12/2004	1649
CCB			-0.0094171							04/12/2004	1654
CCV		M0379	0.95398090		1.00		95.4	%	90-110	04/12/2004	1754
CCB			-0.0126706							04/12/2004	1808
MB		3010.	-0.0137967							04/12/2004	1814
LCS		M348	0.42932059		0.500		85.9	%	85-110	04/12/2004	1818
MS	224213-1	M348	0.49571245		0.500	-0.0014756	99.4	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.48116574	0.49571245	0.500	-0.0014756	96.5	%	75-125	04/12/2004	1855
							3.0	R	20		
CCV		M0379	0.95756758		1.00		95.8	%	90-110	04/12/2004	1900
CCB			-0.0132443							04/12/2004	1914
CCV		M0379	0.96691746		1.00		96.7	%	90-110	04/12/2004	1930
CCB			-0.0167763							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98957379		2.00		99.5	%	90-110	04/12/2004	1327
ICV		M0369	0.94094812		1.00		94.1	%	90-110	04/12/2004	1347
ICB			-0.0079787							04/12/2004	1415
CCV		M0379	0.95092783		1.00		95.1	%	90-110	04/12/2004	1443
CCB			-0.0082854							04/12/2004	1456
MB		3010	-0.0085145							04/12/2004	1500
LCS		M348	0.51005697		0.500		102.0	%	90-110	04/12/2004	1506
MB		3010	-0.0084365							04/12/2004	1524
LCS		M348	0.45994207		0.500		92.0	%	90-110	04/12/2004	1531
CCV		M0379	0.96957197		1.00		97.0	%	90-110	04/12/2004	1549
CCB			-0.0083955							04/12/2004	1603
MS	224191-1	M348	0.55980049		0.500	0.08188999	95.6	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.55882434	0.55980049	0.500	0.08188999	95.4	%	75-125	04/12/2004	1622
							0.2	R	20		
CCV		M0379	0.97138986		1.00		97.1	%	90-110	04/12/2004	1649
CCB			-0.0082176							04/12/2004	1654
CCV		M0379	0.96460338		1.00		96.5	%	90-110	04/12/2004	1754
CCB			-0.0081683							04/12/2004	1808
MB		3010.	-0.0081237							04/12/2004	1814
LCS		M348	0.47780618		0.500		95.6	%	90-110	04/12/2004	1818
MS	224213-1	M348	0.54404742		0.500	0.07131955	94.5	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.52184199	0.54404742	0.500	0.07131955	90.1	%	75-125	04/12/2004	1855
							4.2	R	20		
CCV		M0379	0.97495256		1.00		97.5	%	90-110	04/12/2004	1900
CCB			-0.0084768							04/12/2004	1914
CCV		M0379	0.97356927		1.00		97.4	%	90-110	04/12/2004	1930
CCB			-0.0081155							04/12/2004	1940

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00299164		2.00		100.1	%	90-110	04/12/2004	1327
ICV		M0368	0.97839783		1.00		97.8	%	90-110	04/12/2004	1342
ICV		M0380	0.95000363		1.00		95.0	%	90-110	04/12/2004	1359
ICB			-0.0079905							04/12/2004	1415
CCV		M0379	0.95728626		1.00		95.7	%	90-110	04/12/2004	1443
CCB			-0.0087564							04/12/2004	1456
MB		3010	-0.0083110							04/12/2004	1500
LCS		M348	0.51471213		0.500		102.9	%	90-110	04/12/2004	1506
MB		3010	-0.0087522							04/12/2004	1524
LCS		M348	0.46698664		0.500		93.4	%	90-110	04/12/2004	1531
CCV		M0379	0.97863982		1.00		97.9	%	90-110	04/12/2004	1549
CCB			-0.0085894							04/12/2004	1603
MS	224191-1	M348	0.48315509		0.500	-0.0081949	98.3	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.47940925	0.48315509	0.500	-0.0081949	97.5	%	75-125	04/12/2004	1622
							0.8	R	20		
ICV		M368B	0.51983596		0.500		104.0	%	90-110	04/12/2004	1644
CCV		M0379	0.98390292		1.00		98.4	%	90-110	04/12/2004	1649
CCB			-0.0082790							04/12/2004	1654
CCV		M0379	0.98943731		1.00		98.9	%	90-110	04/12/2004	1754
CCB			-0.0084273							04/12/2004	1808
MB		3010.	-0.0087400							04/12/2004	1814
LCS		M348	0.48798395		0.500		97.6	%	90-110	04/12/2004	1818
MS	224213-1	M348	0.47868020		0.500	-0.0037789	96.5	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.46067365	0.47868020	0.500	-0.0037789	92.9	%	75-125	04/12/2004	1855
							3.8	R	20		
CCV		M0379	1.00193482		1.00		100.2	%	90-110	04/12/2004	1900
CCB			-0.0087974							04/12/2004	1914
CCV		M0379	1.00109593		1.00		100.1	%	90-110	04/12/2004	1930
CCB			-0.0083083							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99676978		2.00		99.8	%	90-110	04/12/2004	1327
ICV		M0368	0.97178201		1.00		97.2	%	90-110	04/12/2004	1342
ICV		M0380	0.97792574		1.00		97.8	%	90-110	04/12/2004	1359
ICB			-0.0078573							04/12/2004	1415
CCV		M0379	0.94869835		1.00		94.9	%	90-110	04/12/2004	1443
CCB			-0.0078731							04/12/2004	1456
MB		3010	-0.0081096							04/12/2004	1500
LCS		M348	0.52119554		0.500		104.2	%	90-110	04/12/2004	1506
MB		3010	-0.0088234							04/12/2004	1524
LCS		M348	0.47085012		0.500		94.2	%	90-110	04/12/2004	1531
CCV		M0379	0.97814994		1.00		97.8	%	90-110	04/12/2004	1549
CCB			-0.0082257							04/12/2004	1603
MS	224191-1	M348	0.46561775		0.500	-0.0082324	94.8	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.46531528	0.46561775	0.500	-0.0082324	94.7	%	75-125	04/12/2004	1622
							0.1	R	20		
CCV		M0379	0.98129698		1.00		98.1	%	90-110	04/12/2004	1649

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QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0081658							04/12/2004	1654
CCV		M0379	0.98671385		1.00		98.7	%	90-110	04/12/2004	1754
CCB			-0.0083569							04/12/2004	1808
MB		3010.	-0.0087633							04/12/2004	1814
LCS		M348	0.49015247		0.500		98.0	%	90-110	04/12/2004	1818
MS	224213-1	M348	0.48153617		0.500	-0.0019198	96.7	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.46124076	0.48153617	0.500	-0.0019198	92.6	%	75-125	04/12/2004	1855
							4.3	R	20		
CCV		M0379	0.97604489		1.00		97.6	%	90-110	04/12/2004	1900
CCB			-0.0079671							04/12/2004	1914
CCV		M0379	0.97959609		1.00		98.0	%	90-110	04/12/2004	1930
CCB			-0.0084667							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00537676		2.00		100.3	%	90-110	04/12/2004	1327
ICV		M0368	0.96785086		1.00		96.8	%	90-110	04/12/2004	1342
ICV		M0380	0.93760764		1.00		93.8	%	90-110	04/12/2004	1359
ICB			-0.0094357							04/12/2004	1415
CCV		M0379	0.94711495		1.00		94.7	%	90-110	04/12/2004	1443
CCB			-0.0079732							04/12/2004	1456
MB		3010	-0.0086900							04/12/2004	1500
LCS		M348	0.51494900		0.500		103.0	%	89-112	04/12/2004	1506
MB		3010	-0.0108171							04/12/2004	1524
LCS		M348	0.46912879		0.500		93.8	%	89-112	04/12/2004	1531
CCV		M0379	0.96463383		1.00		96.5	%	90-110	04/12/2004	1549
CCB			-0.0105884							04/12/2004	1603
MS	224191-1	M348	0.47555694		0.500	-0.0111970	97.4	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.47671290	0.47555694	0.500	-0.0111970	97.6	%	75-125	04/12/2004	1622
							0.2	R	20		
ICV		M368B	0.50586951		0.500		101.2	%	90-110	04/12/2004	1644
CCV		M0379	0.96509486		1.00		96.5	%	90-110	04/12/2004	1649
CCB			-0.0098556							04/12/2004	1654
CCV		M0379	0.96088003		1.00		96.1	%	90-110	04/12/2004	1754
CCB			-0.0113015							04/12/2004	1808
MB		3010.	-0.0107441							04/12/2004	1814
LCS		M348	0.48236720		0.500		96.5	%	89-112	04/12/2004	1818
MS	224213-1	M348	0.73693605		0.500	0.24662586	98.1	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.69913796	0.73693605	0.500	0.24662586	90.5	%	75-125	04/12/2004	1855
							5.3	R	20		
CCV		M0379	0.97512921		1.00		97.5	%	90-110	04/12/2004	1900
CCB			-0.0105755							04/12/2004	1914
CCV		M0379	0.97150197		1.00		97.2	%	90-110	04/12/2004	1930
CCB			-0.0117817							04/12/2004	1940

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QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97084098		2.00		98.5	%	90-110	04/12/2004	1327
ICV		M0368	0.97666025		1.00		97.7	%	90-110	04/12/2004	1342
ICV		M0380	0.95033538		1.00		95.0	%	90-110	04/12/2004	1359
ICB			-0.0079816							04/12/2004	1415
CCV		M0379	0.94488315		1.00		94.5	%	90-110	04/12/2004	1443
CCB			-0.0076512							04/12/2004	1456
MB		3010	-0.0083049							04/12/2004	1500
LCS		M348	0.51820593		0.500		103.6	%	87-112	04/12/2004	1506
MB		3010	-0.0076579							04/12/2004	1524
LCS		M348	0.46831569		0.500		93.7	%	87-112	04/12/2004	1531
CCV		M0379	0.97092790		1.00		97.1	%	90-110	04/12/2004	1549
CCB			-0.0084225							04/12/2004	1603
MS	224191-1	M348	0.46629382		0.500	-0.0044778	94.2	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.46644769	0.46629382	0.500	-0.0044778	94.2	%	75-125	04/12/2004	1622
							0.0	R	20		
ICV		M368B	0.52113861		0.500		104.2	%	90-110	04/12/2004	1644
CCV		M0379	0.97608737		1.00		97.6	%	90-110	04/12/2004	1649
CCB			-0.0064873							04/12/2004	1654
CCV		M0379	0.97202258		1.00		97.2	%	90-110	04/12/2004	1754
CCB			-0.0061710							04/12/2004	1808
MB		3010.	-0.0066029							04/12/2004	1814
LCS		M348	0.48643683		0.500		97.3	%	87-112	04/12/2004	1818
MS	224213-1	M348	1.01752039		0.500	0.55454625	92.6	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.97217969	1.01752039	0.500	0.55454625	83.5	%	75-125	04/12/2004	1855
							4.6	R	20		
CCV		M0379	0.97761284		1.00		97.8	%	90-110	04/12/2004	1900
CCB			-0.0082979							04/12/2004	1914
CCV		M0379	0.97972302		1.00		98.0	%	90-110	04/12/2004	1930
CCB			-0.0072745							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97466822		2.00		98.7	%	90-110	04/12/2004	1327
ICV		M0368	0.94750211		1.00		94.8	%	90-110	04/12/2004	1342
ICB			-0.0077226							04/12/2004	1415
CCV		M0379	0.93703100		1.00		93.7	%	90-110	04/12/2004	1443
CCB			-0.0080944							04/12/2004	1456
MB		3010	-0.0081537							04/12/2004	1500
LCS		M348	0.50313712		0.500		100.6	%	88-110	04/12/2004	1506
MB		3010	-0.0082040							04/12/2004	1524
LCS		M348	0.45639767		0.500		91.3	%	88-110	04/12/2004	1531
CCV		M0379	0.95803113		1.00		95.8	%	90-110	04/12/2004	1549
CCB			-0.0079636							04/12/2004	1603
MS	224191-1	M348	0.59211512		0.500	0.11952520	94.5	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.59228306	0.59211512	0.500	0.11952520	94.6	%	75-125	04/12/2004	1622
							0.0	R	20		
CCV		M0379	0.95992688		1.00		96.0	%	90-110	04/12/2004	1649
CCB			-0.0080878							04/12/2004	1654

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0379	0.95476828		1.00		95.5	%	90-110	04/12/2004	1754
CCB			-0.0080163							04/12/2004	1808
MB		3010.	-0.0079278							04/12/2004	1814
LCS		M348	0.47510535		0.500		95.0	%	88-110	04/12/2004	1818
MS	224213-1	M348	0.49285953		0.500	0.02413051	93.7	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.47163254	0.49285953	0.500	0.02413051	89.5	%	75-125	04/12/2004	1855
							4.4	R	20		
CCV		M0379	0.96495763		1.00		96.5	%	90-110	04/12/2004	1900
CCB			-0.0079760							04/12/2004	1914
CCV		M0379	0.96444221		1.00		96.4	%	90-110	04/12/2004	1930
CCB			-0.0080561							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00200710		2.00		100.1	%	90-110	04/12/2004	1327
ICV		M0368	0.98982449		1.00		99.0	%	90-110	04/12/2004	1342
ICV		M0380	0.96630490		1.00		96.6	%	90-110	04/12/2004	1359
ICB			-0.0081861							04/12/2004	1415
CCV		M0379	0.97190876		1.00		97.2	%	90-110	04/12/2004	1443
CCB			-0.0089176							04/12/2004	1456
MB		3010	-0.0090239							04/12/2004	1500
LCS		M348	0.52551556		0.500		105.1	%	90-112	04/12/2004	1506
MB		3010	-0.0090415							04/12/2004	1524
LCS		M348	0.47615717		0.500		95.2	%	90-112	04/12/2004	1531
CCV		M0379	0.99393049		1.00		99.4	%	90-110	04/12/2004	1549
CCB			-0.0086939							04/12/2004	1603
MS	224191-1	M348	0.46306543		0.500	-0.0050153	93.6	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.46155407	0.46306543	0.500	-0.0050153	93.3	%	75-125	04/12/2004	1622
							0.3	R	20		
ICV		M368B	0.53404701		0.500		106.8	%	90-110	04/12/2004	1644
CCV		M0379	0.99838329		1.00		99.8	%	90-110	04/12/2004	1649
CCB			-0.0087567							04/12/2004	1654
CCV		M0379	1.00180189		1.00		100.2	%	90-110	04/12/2004	1754
CCB			-0.0086132							04/12/2004	1808
MB		3010.	-0.0087479							04/12/2004	1814
LCS		M348	0.49626786		0.500		99.3	%	90-112	04/12/2004	1818
MS	224213-1	M348	0.67004667		0.500	0.18302017	97.4	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.63891482	0.67004667	0.500	0.18302017	91.2	%	75-125	04/12/2004	1855
							4.8	R	20		
CCV		M0379	1.00697299		1.00		100.7	%	90-110	04/12/2004	1900
CCB			-0.0091381							04/12/2004	1914
CCV		M0379	1.01010638		1.00		101.0	%	90-110	04/12/2004	1930
CCB			-0.0089031							04/12/2004	1940

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.94117748		2.00		97.1	%	90-110	04/12/2004	1327
ICV		M0368	0.92224159		1.00		92.2	%	90-110	04/12/2004	1342
ICB			-0.0093304							04/12/2004	1415
CCV		M0379	0.90898057		1.00		90.9	%	90-110	04/12/2004	1443
CCB			-0.0062482							04/12/2004	1456
MB		3010	-0.0062168							04/12/2004	1500
LCS		M348	0.49196211		0.500		98.4	%	82-111	04/12/2004	1506
MB		3010	-0.0046674							04/12/2004	1524
LCS		M348	0.43298582		0.500		86.6	%	82-111	04/12/2004	1531
CCV		M0379	0.93028354		1.00		93.0	%	90-110	04/12/2004	1549
CCB			0.00307849							04/12/2004	1603
MS	224191-1	M348	0.47683389		0.500	-0.0027515	95.9	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.47554648	0.47683389	0.500	-0.0027515	95.7	%	75-125	04/12/2004	1622
							0.3	R	20		
ICV		M368B	0.50397947		0.500		100.8	%	90-110	04/12/2004	1644
CCV		M0379	0.92910140		1.00		92.9	%	90-110	04/12/2004	1649
CCB			-0.0101439							04/12/2004	1654
CCV		M0379	0.93312848		1.00		93.3	%	90-110	04/12/2004	1754
CCB			-0.0029009							04/12/2004	1804
MB		3010.	-0.0098370							04/12/2004	1814
LCS		M348	0.46529105		0.500		93.1	%	82-111	04/12/2004	1818
MS	224213-1	M348	0.45614858		0.500	0.00269619	90.7	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.43842952	0.45614858	0.500	0.00269619	87.1	%	75-125	04/12/2004	1855
							4.0	R	20		
CCV		M0379	0.93415526		1.00		93.4	%	90-110	04/12/2004	1900
CCB			-0.0077148							04/12/2004	1914
CCV		M0379	0.93839881		1.00		93.8	%	90-110	04/12/2004	1930
CCB			-0.0091437							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	0.99622587		1.0		99.6	%	90-110	04/12/2004	1327
ICV		M0369	0.98034754		1.00		98.0	%	90-110	04/12/2004	1347
ICB			-0.0055368							04/12/2004	1415
CCV		M0379	0.47609767		0.50		95.2	%	90-110	04/12/2004	1443
CCB			-0.0045163							04/12/2004	1456
MB		3010	-0.0044110							04/12/2004	1500
LCS		M348	0.25344099		0.25		101.4	%	87-110	04/12/2004	1506
MB		3010	-0.0051450							04/12/2004	1524
LCS		M348	0.23119203		0.25		92.5	%	87-110	04/12/2004	1531
CCV		M0379	0.48629756		0.50		97.3	%	90-110	04/12/2004	1549
CCB			-0.0057098							04/12/2004	1603
MS	224191-1	M348	0.23483002		0.25	-0.0058249	96.3	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.23445130	0.23483002	0.25	-0.0058249	96.1	%	75-125	04/12/2004	1622
							0.2	R	20		
CCV		M0379	0.49120736		0.50		98.2	%	90-110	04/12/2004	1649
CCB			-0.0048653							04/12/2004	1654
CCV		M0379	0.49250585		0.50		98.5	%	90-110	04/12/2004	1754

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0043217							04/12/2004	1808
MB		3010.	-0.0055557							04/12/2004	1814
LCS		M348	0.23825484		0.25		95.3	%	87-110	04/12/2004	1818
MS	224213-1	M348	0.11987734		0.25	-0.0051529	50.0	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.12275024	0.11987734	0.25	-0.0051529	51.2	%	75-125	04/12/2004	1855
							2.4	R	20		
CCV		M0379	0.49366793		0.50		98.7	%	90-110	04/12/2004	1900
CCB			-0.0047379							04/12/2004	1914
CCV		M0379	0.49098756		0.50		98.2	%	90-110	04/12/2004	1930
CCB			-0.0040350							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.96580268		2.00		98.3	%	90-110	04/12/2004	1330
ICB			-0.0087934							04/12/2004	1415
CCV		M0379	1.82625232		2.00		91.3	%	90-110	04/12/2004	1443
CCB			-0.0099487							04/12/2004	1456
MB		3010	-0.0116847							04/12/2004	1500
LCS		M348	0.97873476		1.00		97.9	%	83-118	04/12/2004	1506
MB		3010	-0.0093651							04/12/2004	1524
LCS		M348	0.92833101		1.00		92.8	%	83-118	04/12/2004	1531
CCV		M0379	1.87273958		2.00		93.6	%	90-110	04/12/2004	1549
CCB			-0.0113117							04/12/2004	1603
MS	224191-1	M348	0.93032119		1.00	-0.0327637	96.3	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.91469156	0.93032119	1.00	-0.0327637	94.7	%	75-125	04/12/2004	1622
							1.7	R	20		
CCV		M0379	1.86557849		2.00		93.3	%	90-110	04/12/2004	1649
CCB			0.01045672							04/12/2004	1654
CCV		M0379	1.86025287		2.00		93.0	%	90-110	04/12/2004	1754
CCB			-0.0130526							04/12/2004	1808
MB		3010.	-0.0147087							04/12/2004	1814
LCS		M348	0.95710898		1.00		95.7	%	83-118	04/12/2004	1818
MS	224213-1	M348	0.98980863		1.00	-0.0213624	101.1	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.94634255	0.98980863	1.00	-0.0213624	96.8	%	75-125	04/12/2004	1855
							4.5	R	20		
CCV		M0379	1.89381463		2.00		94.7	%	90-110	04/12/2004	1900
CCB			-0.0083203							04/12/2004	1914
CCV		M0379	1.87629405		2.00		93.8	%	90-110	04/12/2004	1930
CCB			-0.0053338							04/12/2004	1940

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01180810		2.00		100.6	%	90-110	04/12/2004	1327
ICV		M0368	0.94342026		1.00		94.3	%	90-110	04/12/2004	1342
ICV		M0380	0.92070961		1.00		92.1	%	90-110	04/12/2004	1359
ICB			-0.0073884							04/12/2004	1415
CCV		M0379	0.93283094		1.00		93.3	%	90-110	04/12/2004	1443
CCB			-0.0082449							04/12/2004	1456
MB		3010	-0.0082054							04/12/2004	1500
LCS		M348	0.49939463		0.500		99.9	%	89-110	04/12/2004	1506
MB		3010	-0.0081327							04/12/2004	1524
LCS		M348	0.45298554		0.500		90.6	%	89-110	04/12/2004	1531
CCV		M0379	0.95518864		1.00		95.5	%	90-110	04/12/2004	1549
CCB			-0.0094675							04/12/2004	1603
MS	224191-1	M348	0.47975097		0.500	-0.0084079	97.6	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.47694285	0.47975097	0.500	-0.0084079	97.1	%	75-125	04/12/2004	1622
							0.6	R	20		
ICV		M368B	0.50556689		0.500		101.1	%	90-110	04/12/2004	1644
CCV		M0379	0.96080702		1.00		96.1	%	90-110	04/12/2004	1649
CCB			-0.0076910							04/12/2004	1654
CCV		M0379	0.95687054		1.00		95.7	%	90-110	04/12/2004	1754
CCB			-0.0088071							04/12/2004	1808
MB		3010.	-0.0085884							04/12/2004	1814
LCS		M348	0.47210288		0.500		94.4	%	89-110	04/12/2004	1818
MS	224213-1	M348	0.47234754		0.500	-0.0035591	95.2	%	75-125	04/12/2004	1850
MSD	224213-1	M348	0.45340994	0.47234754	0.500	-0.0035591	91.4	%	75-125	04/12/2004	1855
							4.1	R	20		
CCV		M0379	0.95814831		1.00		95.8	%	90-110	04/12/2004	1900
CCB			-0.0085722							04/12/2004	1914
CCV		M0379	0.95649575		1.00		95.6	%	90-110	04/12/2004	1930
CCB			-0.0086046							04/12/2004	1940

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99810091		2.00		99.9	%	90-110	04/12/2004	1327
ICV		M0368	0.96472555		1.00		96.5	%	90-110	04/12/2004	1342
ICV		M0380	0.94765540		1.00		94.8	%	90-110	04/12/2004	1359
ICB			-0.0102858							04/12/2004	1415
CCV		M0379	0.94311086		1.00		94.3	%	90-110	04/12/2004	1443
CCB			-0.0116608							04/12/2004	1456
MB		3010	-0.0117453							04/12/2004	1500
LCS		M348	0.50468886		0.500		100.9	%	86-110	04/12/2004	1506
MB		3010	-0.0117877							04/12/2004	1524
LCS		M348	0.46188375		0.500		92.4	%	86-110	04/12/2004	1531
CCV		M0379	0.96538824		1.00		96.5	%	90-110	04/12/2004	1549
CCB			-0.0107242							04/12/2004	1603
MS	224191-1	M348	0.50841274		0.500	0.01080053	99.5	%	75-125	04/12/2004	1616
MSD	224191-1	M348	0.50716660	0.50841274	0.500	0.01080053	99.3	%	75-125	04/12/2004	1622
							0.2	R	20		
ICV		M368B	0.51586651		0.500		103.2	%	90-110	04/12/2004	1644

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN STL

QUALITY CONTROL RESULTS

Job Number.: 224213 Report Date.: 04/23/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 92436 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0379	0.96821006		1.00		96.8	%	90-110	04/12/2004	1649
CCB			-0.0110017							04/12/2004	1654
CCV		M0379	0.94947718		1.00		94.9	%	90-110	04/12/2004	1754
CCB			-0.0109684							04/12/2004	1808
MB		3010.	-0.0064881							04/12/2004	1814
LCS		M348	0.47138957		0.500		94.3	%	86-110	04/12/2004	1818
MS	224213-1	M348	1.25084838		0.500	0.77223628	95.7	%	75-125	04/12/2004	1850
MSD	224213-1	M348	1.17668226	1.25084838	0.500	0.77223628	80.9	%	75-125	04/12/2004	1855
							6.1	R	20		
CCV		M0379	0.96556791		1.00		96.6	%	90-110	04/12/2004	1900
CCB			-0.0104541							04/12/2004	1914
CCV		M0379	0.96406679		1.00		96.4	%	90-110	04/12/2004	1930
CCB			-0.0107350							04/12/2004	1940

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Report

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Certificate of Analysis

ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4D140129

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

April 21, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

April 21, 2004

STL LOT NUMBER: **I4D140129**

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the sample received under chain of custody by Severn Trent Laboratories (STL) on April 10, 2004. This sample is associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4D140129

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
224213-1 04/08/04 15:40 001				
Cadmium	20.7	1.0	ug/L	SW846 6020
Antimony	3.7	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4D140129

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4D140129

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GD4GW	001	224213-1	04/08/04	15:40

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4D140129

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4110445	
	WATER	SW846 6010B		4106174	4106055

STL CORPUS CHRISTI

Client Sample ID: 224213-1

TOTAL Metals

Lot-Sample #...: I4D140129-001 **Matrix.....:** WATER
Date Sampled...: 04/08/04 15:40 **Date Received..:** 04/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4106174						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/14-04/16/04	GD4GW1AE
		Dilution Factor: 1		Analysis Time..: 11:13	MS Run #.....: 4106055	
Prep Batch #...: 4110445						
Cadmium	**20.7**	**1.0**	**ug/L**	**SW846 6020**	**04/19/04**	**GD4GW1AA**
		Dilution Factor: 1		Analysis Time..: 18:42	MS Run #.....:	
Antimony	**3.7**	**1.0**	**ug/L**	**SW846 6020**	**04/19/04**	**GD4GW1AC**
		Dilution Factor: 1		Analysis Time..: 18:42	MS Run #.....:	
Thallium	ND	1.0	ug/L	SW846 6020	04/19/04	GD4GW1AD
		Dilution Factor: 1		Analysis Time..: 18:42	MS Run #.....:	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4D140129 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4D150000-174 **Prep Batch #...:** 4106174						
Bismuth	ND	0.20	mg/L	SW846 6010B	04/14-04/16/04	GD6PR1CJ
		Dilution Factor: 1				
		Analysis Time..: 11:03				
MB Lot-Sample #: I4D190000-445 **Prep Batch #...:** 4110445						
Antimony	ND	1.0	ug/L	SW846 6020	04/19/04	GEFTD1AC
		Dilution Factor: 1				
		Analysis Time..: 18:29				
Cadmium	ND	1.0	ug/L	SW846 6020	04/19/04	GEFTD1AA
		Dilution Factor: 1				
		Analysis Time..: 18:29				
Thallium	ND	1.0	ug/L	SW846 6020	04/19/04	GEFTD1AD
		Dilution Factor: 1				
		Analysis Time..: 18:29				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D140129 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D150000-174 **Prep Batch #...:** 4106174					
Bismuth	101	(80 - 120)	SW846 6010B	04/14-04/16/04	GD6PR1DL
		Dilution Factor: 1	Analysis Time..: 11:08		
LCS Lot-Sample#: I4D190000-445 **Prep Batch #...:** 4110445					
Cadmium	103	(80 - 120)	SW846 6020	04/19/04	GEFTD1AE
		Dilution Factor: 1	Analysis Time..: 18:36		
Antimony	100	(80 - 120)	SW846 6020	04/19/04	GEFTD1AF
		Dilution Factor: 1	Analysis Time..: 18:36		
Thallium	107	(80 - 120)	SW846 6020	04/19/04	GEFTD1AG
		Dilution Factor: 1	Analysis Time..: 18:36		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D140129 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4D150000-174 **Prep Batch #...:** 4106174							
Bismuth	0.500	0.506	mg/L	101	SW846 6010B	04/14-04/16/04	GD6PR1DL
			Dilution Factor: 1		Analysis Time..: 11:08		
LCS Lot-Sample#: I4D190000-445 **Prep Batch #...:** 4110445							
Cadmium	50.0	51.5	ug/L	103	SW846 6020	04/19/04	GEFTD1AE
			Dilution Factor: 1		Analysis Time..: 18:36		
Antimony	50.0	50.1	ug/L	100	SW846 6020	04/19/04	GEFTD1AF
			Dilution Factor: 1		Analysis Time..: 18:36		
Thallium	50.0	53.3	ug/L	107	SW846 6020	04/19/04	GEFTD1AG
			Dilution Factor: 1		Analysis Time..: 18:36		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4D140129 **Matrix.....:** WATER
Date Sampled...: 04/11/04 06:00 **Date Received..:** 04/14/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D140114-004 **Prep Batch #...:** 4106174							
Bismuth	103	(75 - 125)			SW846 6010B	04/14-04/16/04	GD4FR1EQ
	100	(75 - 125)	2.6	(0-20)	SW846 6010B	04/14-04/16/04	GD4FR1ER

Dilution Factor: 1
Analysis Time..: 11:38
MS Run #.....: 4106055

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4D140129 **Matrix.....:** WATER
Date Sampled...: 04/11/04 06:00 **Date Received..:** 04/14/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4D140114-004 **Prep Batch #...:** 4106174									
Bismuth									
	ND	0.500	0.519	mg/L	103		SW846 6010B	04/14-04/16/04	GD4FR1EQ
	ND	0.500	0.506	mg/L	100	2.6	SW846 6010B	04/14-04/16/04	GD4FR1ER

Dilution Factor: 1
Analysis Time..: 11:38
MS Run #.....: 4106055

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

14

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4D140129

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 4-10-04/0850

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 4-10-04/0950

CLIENT/PROJECT: STL - Corpus Christi

SAMPLES LOGGED IN: LT

LOG-IN REVIEWED: CC

Number of Shipping Containers Received with Chain of Custody 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: LT **IR THERMOMETER #:** D5

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

2°C										

If temperature is outside acceptable tolerance, Project Manager was notified (____PM). Date: Time:

Samples received do not require cooling

OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (____PM)

Date: Time: ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: _____

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☑ YES ☐ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments
224213-1	4-8-04/1540	2242131	4-8-04/1540	

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

_____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 4/21/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin I4D140129

No. 22471

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: Same
PHONE: 361 | 289-2673	PHONE:
FAX: 361 | 289-2471	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: ICP-MS (Ca, Tl, Sb)	ANALYSIS/METHOD REQUEST: ICP (Bi)	LAB JOB NO.	REMARKS/PRECAUTIONS
	224213-1	4/8/04	15:40	Water	P500	HNO_3	1	X	X		Attn: Neal Salcher
											ASARCO Pricing
											2 oc / RT / 4-10-04
											See COC Add

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	4/9/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 15:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: Luke Townsend	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4-10-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

STL Austin I4D140129

No. 22471

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga M Donald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS:
PHONE: 361 / 289-2673	PHONE: Same
FAX: 361 / 289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: ICP-MS (Cl, Tl, Sn)	ICP (Bi)							REMARKS/PRECAUTIONS
	224213-1	4/8/04	15:40	Water	P500	HNO3	1	X	X							Attn: Neal Salcher
																ASARCO Pricing
																2°C/pt/4-10-04
																See COC Add

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica Donald	4/9/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 15:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: Luke Townsend	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Luke Townsend	4-10-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0730	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 04/23/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 04/23/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
' - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 23453

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Encycle RCRA Closure	PROJECT NAME/NUMBER: Encycle RCRA Closure
SEND REPORT TO: Ken Brandner / Rich Marcus	**BILLING INFORMATION**
ADDRESS: 711 N. Carancahua	BILL TO: Rich Marcus / Encycle
Corpus Christi, TX	ADDRESS:
PHONE: 361-883-1353	PHONE:
FAX: 361-883-7565	FAX: PO NO:

4.2°C

LAB JOB NO. 224213

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Cyanide	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, Vanadium	Zinc	REMARKS/PRECAUTIONS
Bin 5	Bin 5	4/8/04	3:40	L	1qt Poly	$NaOH$	1	X			Need low detection limits
					1pt. poly	HNO_3	2		X		

SAMPLER: Ken Brandner

SHIPMENT METHOD: In Person, cooler w/ice

AIRBILL NO.: —

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Ken Brandner	4/8/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Ken Brandner / ARCADIS	TIME 1613	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/8/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1613	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274468 **Report Date:** 05/21/04
Project ID: Encycle RCRA Closure
Sample Name: Bin S
Sample Matrix: water
Date Received: 05/18/2004 **Time:** 16:10
Date Sampled: 05/18/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	05/19/04	3015	---	---	---	---	---
Cadmium/ICP	**0.0034**	mg/L	0.002	<0.002	05/20/04	6010 & 200.7	---	0.33	94.41	99.4	100.5
Lead/ICP	**0.0567**	mg/L	0.01	<0.01	05/20/04	6010 & 200.7	---	1.69	90.44	104.28	102.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Encycle RCRA Closure

Project Location Corpus Christi

Laboratory ANALYSYS, INC.

Project Manager K. Brandner

Sampler(s)/Affiliation A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cadmium, Lead Plastic w/ HNO_3						Remarks	Total
B.'N S 274468	S	05-18-2004 16:00		1						Run w/ Low Detection Limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 1

						Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS	Date 05/18/2004	Time 16:10			
Received by: L Flowman	Organization: ASI	Date 5/18/2004	Time 1610			Yes No N/A
Relinquished by: _____	Organization: _____	Date / /	Time _____			Seal Intact?
Received by: _____	Organization: _____	Date / /	Time _____			Yes No N/A

Special Instructions/Remarks:

Note: Three (3)-day Turnaround • Direct Bill R. Means (Encycle) • Results K. Brandner (ARCADIS) and R. Means (Encycle)

T: 2.0°C

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274496 **Report Date:** 06/24/04
Project ID: Encycle RCRA Closure
Sample Name: Bin S
Sample Matrix: water
Date Received: 05/19/2004 **Time:** 16:20
Date Sampled: 05/19/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Metals Dig.-HNO3	---	---	---	---	06/23/04	3015	---	---	---	---	---
Lead/ICP	**0.0636**	mg/L	0.01	<0.01	06/23/04	6010 & 200.7	---	0.56	89.47	97.88	92.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi

Laboratory: Analysys, Inc

Project Manager: K. Brandner

Sampler(s)/Affiliation: A. Garcia / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Cadmium, Lead Plastic w/ HNO_3						Remarks	Total
Bin S	L	05/19/2004 16:00		1	—	HOLD	—	—	—	Hold Bin S.	1
Bin R	L	16:15		1						Require Low Detection Limits	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 2

Relinquished by: [signature]	Organization: ARCADIS	Date 05/19/2004	Time 16:20	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks: Hold Bin S, Pending Results of Bin S 05-13-2004.
Note: Five (5) Day Turnaround. Direct Bill R. Marcus (Encycle). Results to K. Brandner (ARCADIS) and R. Marcus (Encycle)

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Arcadis Geraghty & Miller, Inc.
Attn: Ken Brandner
Address: 711 N. Carancahua Suite 1700
Corpus Christi, TX 78475-1801

Phone: (361) 883-1353 **FAX:** (361) 883-7565

Report#/Lab ID#: 274552 **Report Date:** 06/04/04
Project ID: Encycle RCRA Closure
Sample Name: Bin S
Sample Matrix: water
Date Received: 05/20/2004 **Time:** 16:25
Date Sampled: 05/20/2004 **Time:** 16:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	06/02/04	3015	---	---	---	---	---
Lead/ICP	0.0595	mg/L	0.01	<0.01	06/03/04	6010 & 200.7	---	2.17	102.01	98.42	91.78

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003. AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No.: _____

CHAIN-OF-CUSTODY RECORD

Page - of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi

Laboratory: Analysys, Inc.

Project Manager: K. Brandner

Sampler(s)/Affiliation: A. Garcia / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Cadmium, Lead Plastic w/ HNO_3	Analysis per R. Marcus 5/27	Remarks	Total
Bin S 274552	L	05-20-2004 16:00		1	HOLD	Hold pending Prior Result analyses.	1
Bin R 274553	L	16:15		1	HOLD		1
					Analysis per R. Marcus 5/25	Require Low Detection Limits	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 2

						Seal Intact?
Relinquished by:		Organization: ARCADIS	Date 05/20/2004	Time 16:25		Yes No N/A
Received by: L Plowman		Organization: ASI	Date 5/20/04	Time 1625		
Relinquished by:		Organization:	Date 12/1/04	Time		Seal Intact?
Received by: D Stepp		Organization: ASI	Date 5 [illegible] 04	Time 0840		Yes No N/A

Special Instructions/Remarks: Hold Bin S and R, Pending Bin S & Bin R prior sample analyses.

Note: Five(5) Day Turnaround. Direct Bill R. Marcus (Encycle). Results to K. Brandner (ARCADIS) and R. Marcus (Encycle).

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278166 **Report Date:** 09/24/04
Project ID: RCRA Closure
Sample Name: Bin S
Sample Matrix: water
Date Received: 09/22/2004 **Time:** 16:00
Date Sampled: 09/22/2004 **Time:** 15:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	09/23/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/23/04	6010 & 200.7	---	2.6	91.06	104.66	99

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN-OF-CUSTODY

www.analysysinc.com

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385 7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name ARCADIS & Encycle
Address 711 N. Carancahua Suite 1700
City Corpus Christi State TX Zip 78475
ATTN: Ken Brandner / Rich Marcus
Phone 361-883-1353 Fax 361-883-7565
Project Name/PO#: RCRA Closure Sampler Ken Brandner / ARCADIS

Bill To (if different): (For RCRA Closure)
Company Name Encycle (Rich Marcus)
Address
City State Zip
ATTN:
Phone Fax

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: Total Lead										RUSH TAT (Pre-Scheduled)	Standard TAT
BINS	9/22/04	3:40	1	X		278166	X	X											X											X	

Special Instructions (such as special QC requirements, lists, methods, etc...)
Need 3 day turnaround. Invoice to Rich Marcus for Encycle RCRA Closure.
Analyze for total lead only.

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C): T: 2.0 C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	J
Ken Brandner	ARCADIS	9/22/04	4:00	L Plowman	ASI	9.22.04	1600	NO	
				L. Flynn	ASI	9/23/04	0850		

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]